

OPZV · SERIES ROV

## ROV Series – OPzV (Tubular Gel)

The best of lead. Maintenance-free with extreme service life.

The ROV Series is the pinnacle of lead-acid technology, combining the strength of tubular plates with the convenience of gelled electrolyte (VRLA). Under the EUROBAT 'Very Long Life' classification, it offers a 20-year design life with zero maintenance or water refilling required. Complying with the DIN 40742 standard, its design prevents acid stratification and provides superior cycling capability, even in Partial State of Charge (PSoC) conditions.



|          |                            |            |             |
|----------|----------------------------|------------|-------------|
| MODELS   | NOMINAL VOLTAGE            | CAPACITY   | DESIGN LIFE |
| 26       | 2 V, 6 V, 12 V             | 75–3500 Ah | 20 years    |
| WARRANTY | EUROBAT                    |            |             |
| 2 years  | >12 Years (Very Long Life) |            |             |

### ✓ Key features

- Combination:** Tubular plates with gel electrolyte
- Maintenance:** Zero maintenance required
- Durability:** 20 years design life at 20°C
- Install:** Can be installed horizontally in racks

### ⚙ Applications

- Solar/Wind Energy Systems**  
Energy storage for deep-cycle photovoltaic and wind systems, ensuring stable power supply even during low generation periods.
- Electrical Substations**  
Backup systems for control, switching, and protection equipment in high and medium voltage electrical substations.
- Telecommunications and Base Stations**  
Critical backup for network infrastructures and mobile base stations in remote locations with extreme weather conditions.
- Railway Signaling and Infrastructure**  
Uninterruptible power supply systems for traffic control, signaling, and safety in tunnels and railway infrastructures.

**Maritime**

Reliable power supply for buoys, lighthouses, and maritime navigation systems requiring long periods of maintenance-free autonomy.

**UPS and Data Centers**

 Standards and certifications

- CE CERTIFIED
- ISO 9001 / 14001
- IEC61427
- IEC 60896-21/22
- YD/T1360
- BS6290 part 4

 ROV series models

Each model links to its datasheet with discharge tables, dimensions and charge parameters. Rated capacity at 25 °C; C20 = 20-hour rate.

| Model                          | Nominal Voltage | Capacity      | Length (mm) | Width (mm) | Height (mm) | Weight (kgs) | Terminal      |
|--------------------------------|-----------------|---------------|-------------|------------|-------------|--------------|---------------|
| ROV2-100 (formerly RKV2-100)   | 2 V             | 100 Ah (C10)  | 103         | 206        | 354         | 13           | F10           |
| ROV2-150 (formerly RKV2-150)   | 2 V             | 150 Ah (C10)  | 103         | 206        | 354         | 14.7         | F10           |
| ROV2-200 (formerly RKV2-200)   | 2 V             | 200 Ah (C10)  | 103         | 206        | 354         | 16.3         | F10           |
| ROV2-250 (formerly RKV2-250)   | 2 V             | 250 Ah (C10)  | 124         | 206        | 354         | 20.3         | F10           |
| ROV2-300 (formerly RKV2-300)   | 2 V             | 300 Ah (C10)  | 145         | 206        | 354         | 24           | F10           |
| ROV2-350 (formerly RKV2-350)   | 2 V             | 350 Ah (C10)  | 124         | 206        | 471         | 26.5         | F10           |
| ROV2-420 (formerly RKV2-420)   | 2 V             | 420 Ah (C10)  | 145         | 206        | 471         | 31           | IT-M8-CU-20-7 |
| ROV2-500 (formerly RKV2-500)   | 2 V             | 500 Ah (C10)  | 166         | 206        | 471         | 35           | T22           |
| ROV2-600 (formerly RKV2-600)   | 2 V             | 600 Ah (C10)  | 145         | 206        | 646         | 42           | F10           |
| ROV2-800 (formerly RKV2-800)   | 2 V             | 800 Ah (C10)  | 191         | 210        | 646         | 58.5         | F10           |
| ROV2-1000 (formerly RKV2-1000) | 2 V             | 1000 Ah (C10) | 233         | 210        | 646         | 69           | F10           |
| ROV2-1200 (formerly RKV2-1200) | 2 V             | 1200 Ah (C10) | 275         | 210        | 646         | 84           | F10           |
| ROV2-1250 (formerly RKV2-1250) | 2 V             | 1250 Ah (C10) | 275         | 210        | 646         | 85           | F10           |
| ROV2-1500 (formerly RKV2-1500) | 2 V             | 1500 Ah (C10) | 275         | 210        | 796         | 105          | F10           |
| ROV2-1800 (formerly RKV2-1800) | 2 V             | 1800 Ah (C10) | 399         | 212        | 772         | 125          | F10           |
| ROV2-2000 (formerly RKV2-2000) | 2 V             | 2000 Ah (C10) | 399         | 212        | 772         | 144.6        | F10           |
| ROV2-2500 (formerly RKV2-2500) | 2 V             | 2500 Ah (C10) | 487         | 212        | 772         | 174          | F10           |
| ROV2-3000 (formerly RKV2-3000) | 2 V             | 3000 Ah (C10) | 576         | 212        | 772         | 210          | F10           |
| ROV2-3500 (formerly RKV2-3500) | 2 V             | 3500 Ah (C10) | 576         | 212        | 772         | 215          | F10           |
| ROV6-250 (formerly RKV6-250)   | 6 V             | 250 Ah (C10)  | 295         | 178        | 408         | 46.5         | F10           |
| ROV6-300 (formerly RKV6-300)   | 6 V             | 300 Ah (C10)  | 295         | 178        | 405         | 52.5         | F10           |
| ROV12-75 (formerly RKV12-75)   | 12 V            | 75 Ah (C10)   | 330         | 171        | 214         | 30.5         | F10           |
| ROV12-100 (formerly RKV12-100) | 12 V            | 100 Ah (C10)  | 409         | 176        | 223         | 35           | F10           |
| ROV12-150 (formerly RKV12-150) | 12 V            | 150 Ah (C20)  | 532         | 207        | 209         | 58.5         | F10           |
| ROV12-200 (formerly RKV12-200) | 12 V            | 200 Ah (C10)  | 499         | 259        | 238         | 73.5         | IT-M8-CU-20-7 |

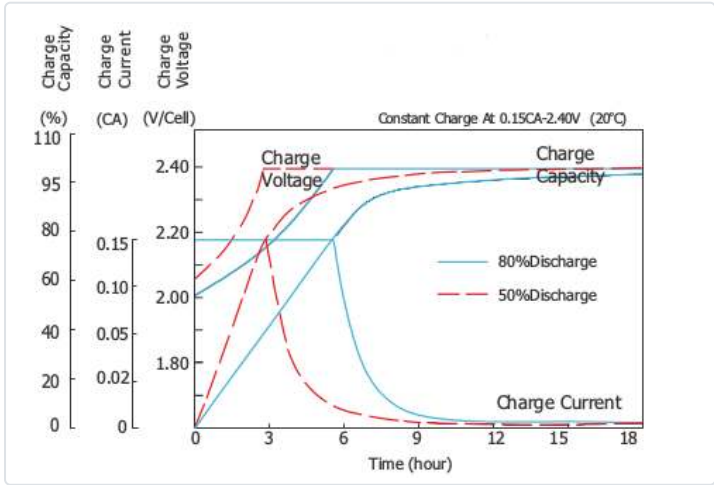
| Model                                   | Nominal Voltage | Capacity     | Length (mm) | Width (mm) | Height (mm) | Weight (kgs) | Terminal |
|-----------------------------------------|-----------------|--------------|-------------|------------|-------------|--------------|----------|
| <b>ROV12-420M</b> (formerly RKV12-420M) | 12 V            | 420 Ah (C10) | 145         | 1236       | 471         | 186          | F10      |

 Construction

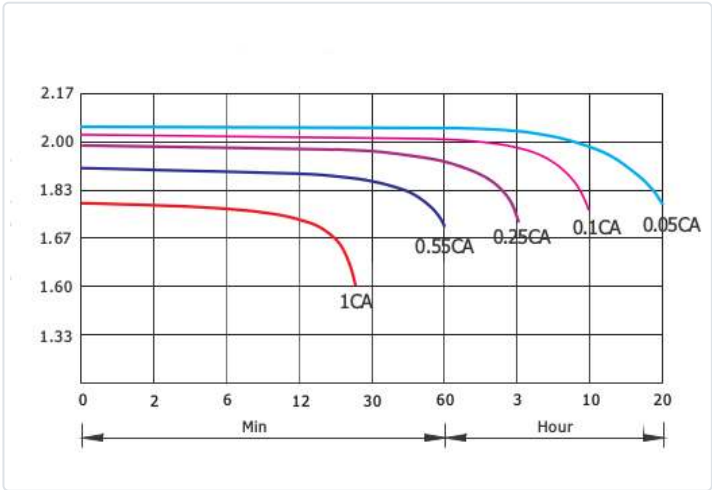
| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

 Performance graphics

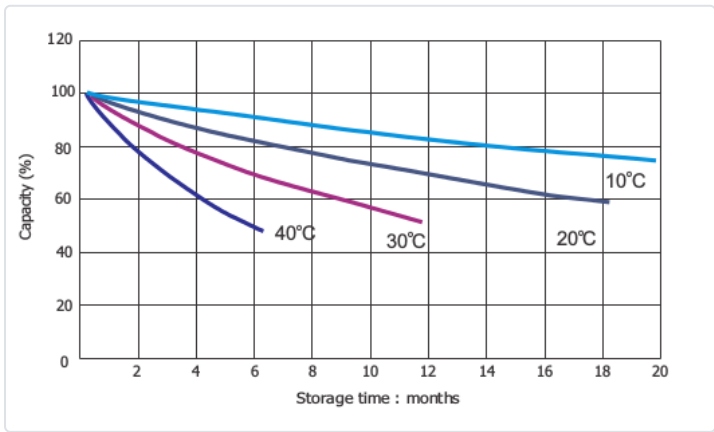
CHARGE CHARACTERISTICS



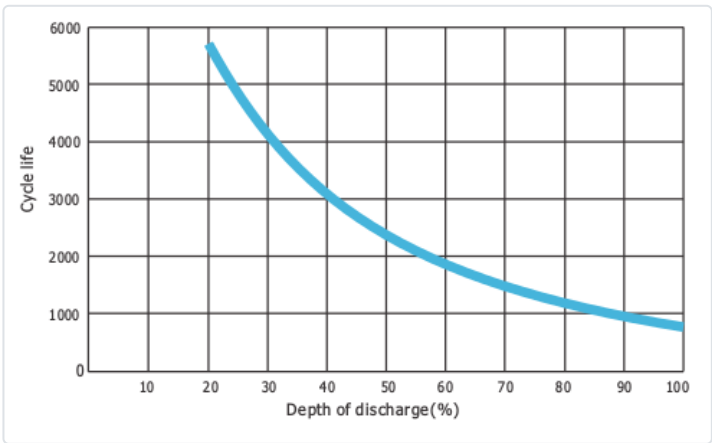
DISCHARGE CHARACTERISTIC 250C



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## The best of lead. Maintenance-free with extreme service life.

The ROV2-100 is a 2 V, 100 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 103 × 206 × 354 mm and weighs 13 kg, with F10 terminals. It stores 200 Wh and delivers up to 800 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKV2-100**.

### MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 100 Ah (C10)       |
| Energy          | 200 Wh             |
| Weight          | 13 kg              |
| Terminal        | F10                |
| Dimensions      | 103 × 206 × 354 mm |



**20**  
YEARS

### LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

### WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

### MAIN APPLICATIONS



SOLAR/WIND ENERGY SYSTEMS



ELECTRICAL SUBSTATIONS



TELECOMMUNICATIONS AND BASE STATIONS



RAILWAY SIGNALING AND INFRASTRUCTURE



MARITIME



UPS AND DATA CENTERS

### QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

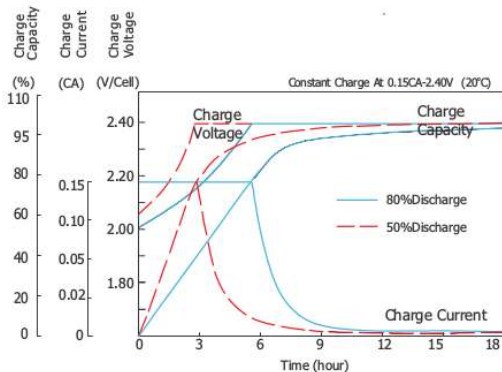
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  |
|------------|-------|-------|-------|-------|-------|-------|
| 1.70 V     | 125A  | 86A   | 55.5A | 25.5A | 17.3A | 10.5A |
| 1.75 V     | 114A  | 82.4A | 55A   | 25A   | 17A   | 10.3A |
| 1.80 V     | 101A  | 76.8A | 51A   | 24A   | 16.8A | 10A   |
| 1.85 V     | 87.4A | 68.4A | 46.8A | 22.5A | 15.9A | 9.5A  |
| 1.90 V     | 73.8A | 60A   | 42.5A | 21A   | 15A   | 9A    |

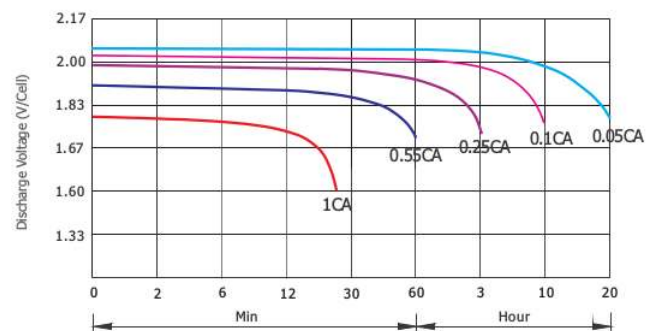
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  |
|------------|-------|-------|-------|-------|-------|-------|
| 1.70 V     | 208W  | 148W  | 117W  | 50.2W | 37.8W | 21.5W |
| 1.75 V     | 184W  | 144W  | 106W  | 50.1W | 36.9W | 20.1W |
| 1.80 V     | 163W  | 138W  | 96.9W | 49.5W | 36W   | 19.9W |
| 1.85 V     | 150W  | 124W  | 91.9W | 47.9W | 34.8W | 19.1W |
| 1.90 V     | 138W  | 110W  | 86.9W | 46.3W | 33.5W | 18.2W |

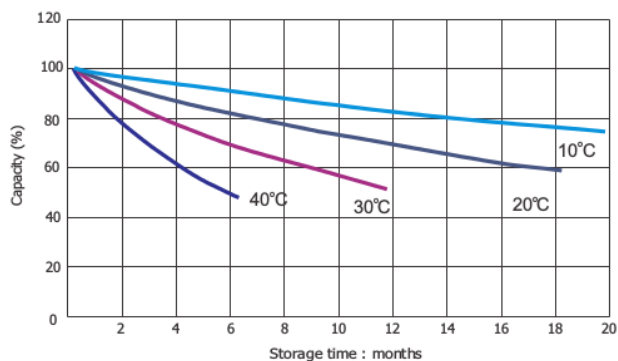
CHARGE CHARACTERISTICS



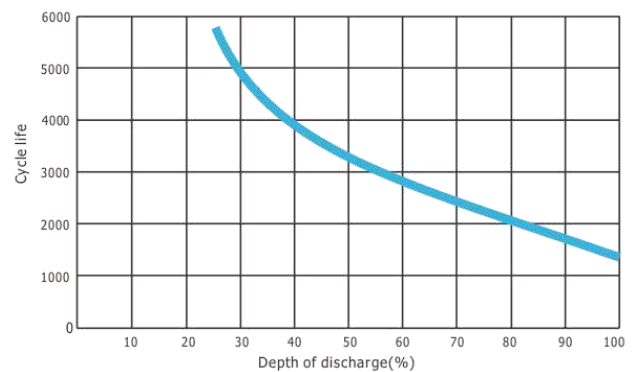
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 100 Ah (C10)                                                                 |
| Energy                           | 200 Wh                                                                       |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.25-2.29V (-3mV/°C/cell) |
| Max. Charge Current              | 20 A                                                                         |
| Max. Discharge Current           | 800 A                                                                        |
| Internal Resistance              | 0.31 mΩ                                                                      |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                           |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                         |

## CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV2-100** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

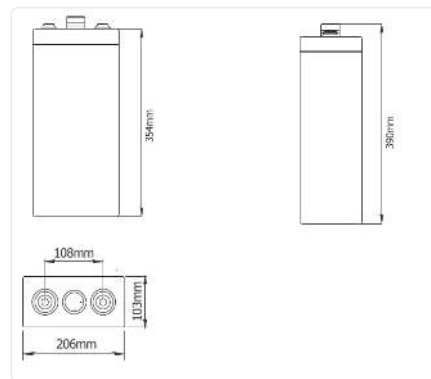
**Length:** 103 mm

**Width:** 206 mm

**Height:** 354 mm

**Total Height:** 390 mm

**Weight:** 13 kg



### 2. TERMINAL CONFIGURATION (F10)

**Terminals:** Ensure your system's connectors match the F10 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 2.35-2.40V (-5mV/°C/cell)

Float use: 2.25-2.29V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 20 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV2-150** (2 V · 150 Ah) · [See all ROV series models](#)

**Specialized Technical Support**

<https://rekoser.com> | +34 958 04 29 73

## The best of lead. Maintenance-free with extreme service life.

The ROV2-150 is a 2 V, 150 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 103 × 206 × 354 mm and weighs 14.7 kg, with F10 terminals. It stores 300 Wh and delivers up to 1000 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKV2-150**.



### MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 150 Ah (C10)       |
| Energy          | 300 Wh             |
| Weight          | 14.7 kg            |
| Terminal        | F10                |
| Dimensions      | 103 × 206 × 354 mm |

**20**  
YEARS

### LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

### WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

### MAIN APPLICATIONS



SOLAR/WIND ENERGY SYSTEMS



ELECTRICAL SUBSTATIONS



TELECOMMUNICATIONS AND BASE STATIONS



RAILWAY SIGNALING AND INFRASTRUCTURE



MARITIME



UPS AND DATA CENTERS

### QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

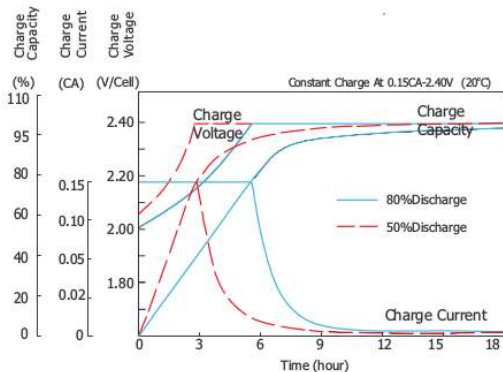
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  |
|------------|-------|-------|-------|-------|-------|-------|-------|
| 1.90 V     | 55A   | 53.5A | 50A   | 42A   | 30A   | 22.2A | 13.1A |
| 1.85 V     | 86.2A | 79A   | 68A   | 53.5A | 35.6A | 25.7A | 14.4A |
| 1.80 V     | 112A  | 102A  | 82.3A | 65A   | 39.4A | 26.8A | 15A   |
| 1.75 V     | 119A  | 112A  | 96.5A | 70.8A | 40.5A | 27.3A | 15.5A |
| 1.70 V     | 130A  | 123A  | 106A  | 74.8A | 41.3A | 27.8A | 15.8A |

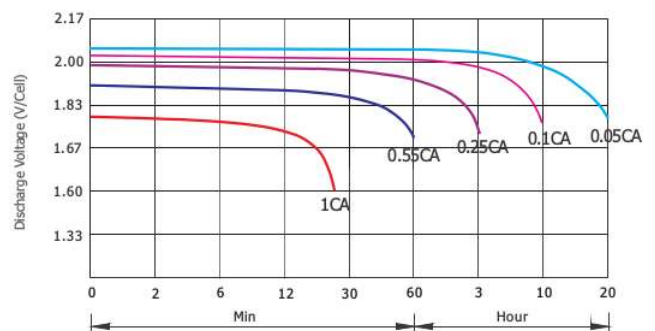
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  |
|------------|-------|-------|-------|-------|-------|-------|-------|
| 1.90 V     | 106W  | 104W  | 97.4W | 82.4W | 59.7W | 44.5W | 26.5W |
| 1.85 V     | 161W  | 148W  | 129W  | 102W  | 69.3W | 50.4W | 28.7W |
| 1.80 V     | 205W  | 187W  | 152W  | 121W  | 75.2W | 51.5W | 29.2W |
| 1.75 V     | 214W  | 202W  | 176W  | 130W  | 76.1W | 51.8W | 29.8W |
| 1.70 V     | 229W  | 218W  | 190W  | 136W  | 76.6W | 52.1W | 30.1W |

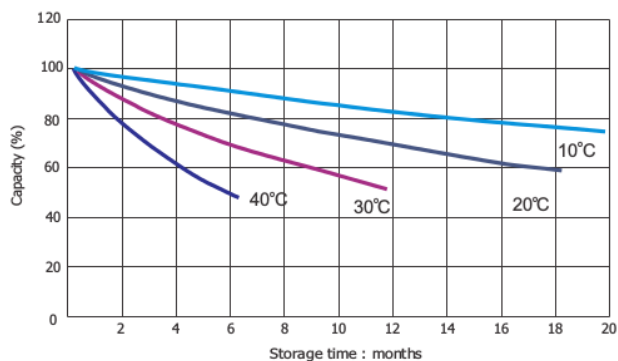
CHARGE CHARACTERISTICS



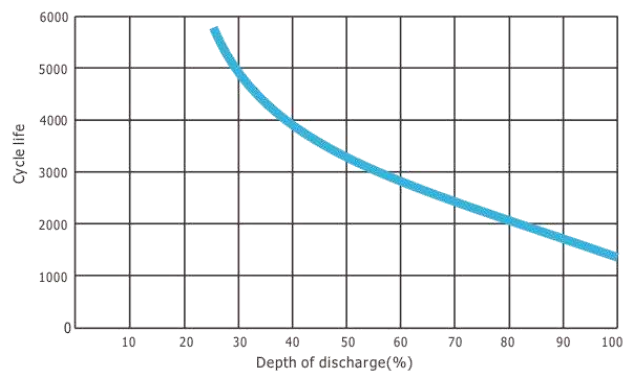
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 150 Ah (C10)                                                                 |
| Energy                           | 300 Wh                                                                       |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.25-2.29V (-3mV/°C/cell) |
| Max. Charge Current              | 30 A                                                                         |
| Max. Discharge Current           | 1000 A                                                                       |
| Internal Resistance              | 0.31 mΩ                                                                      |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                           |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                         |

## CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV2-150** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

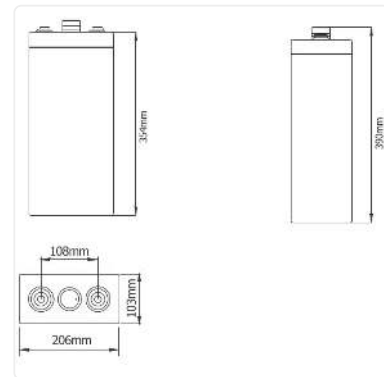
**Length:** 103 mm

**Width:** 206 mm

**Height:** 354 mm

**Total Height:** 390 mm

**Weight:** 14.7 kg



### 2. TERMINAL CONFIGURATION (F10)

**Terminals:** Ensure your system's connectors match the F10 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 2.35-2.40V (-5mV/°C/cell)

Float use: 2.25-2.29V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 30 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV2-100** (2 V · 100 Ah) · **ROV2-200** (2 V · 200 Ah) · [See all ROV series models](#)

**Specialized Technical Support**  
<https://rekoser.com> | +34 958 04 29 73

## The best of lead. Maintenance-free with extreme service life.

The ROV2-200 is a 2 V, 200 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 103 × 206 × 354 mm and weighs 16.3 kg, with F10 terminals. It stores 400 Wh and delivers up to 1000 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKV2-200**.



### MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 200 Ah (C10)       |
| Energy          | 400 Wh             |
| Weight          | 16.3 kg            |
| Terminal        | F10                |
| Dimensions      | 103 × 206 × 354 mm |

**20**  
YEARS

### LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

### WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

### MAIN APPLICATIONS



SOLAR/WIND ENERGY SYSTEMS



ELECTRICAL SUBSTATIONS



TELECOMMUNICATIONS AND BASE STATIONS



RAILWAY SIGNALING AND INFRASTRUCTURE



MARITIME



UPS AND DATA CENTERS

### QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

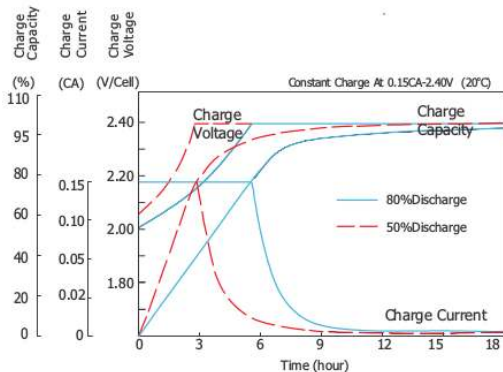
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  |
|------------|-------|-------|-------|-------|-------|-------|-------|
| 1.90 V     | 73.4A | 71.3A | 66.7A | 56A   | 40A   | 29.6A | 17.5A |
| 1.85 V     | 115A  | 105A  | 90.7A | 71.3A | 47.4A | 34.2A | 19.2A |
| 1.80 V     | 150A  | 136A  | 110A  | 86.7A | 52.5A | 35.7A | 20A   |
| 1.75 V     | 159A  | 149A  | 129A  | 94.3A | 54A   | 36.4A | 20.6A |
| 1.70 V     | 173A  | 164A  | 141A  | 100A  | 55A   | 37A   | 21A   |

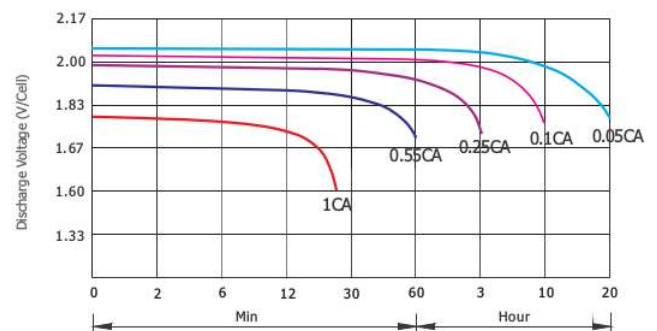
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  |
|------------|-------|-------|-------|------|-------|-------|-------|
| 1.90 V     | 142W  | 138W  | 130W  | 110W | 79.6W | 59.3W | 35.4W |
| 1.85 V     | 215W  | 198W  | 171W  | 136W | 92.4W | 67.3W | 38.2W |
| 1.80 V     | 273W  | 249W  | 202W  | 162W | 100W  | 68.7W | 39W   |
| 1.75 V     | 285W  | 269W  | 234W  | 173W | 101W  | 69.1W | 39.7W |
| 1.70 V     | 306W  | 291W  | 254W  | 181W | 102W  | 69.5W | 40.1W |

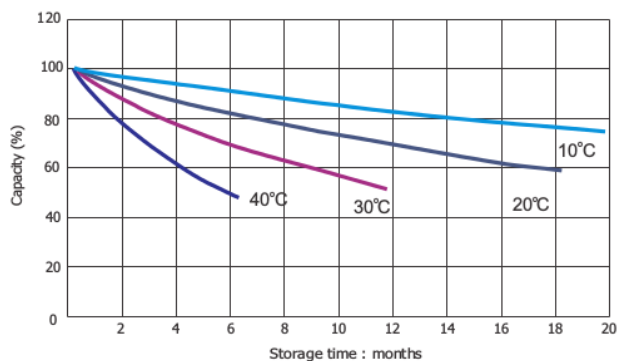
CHARGE CHARACTERISTICS



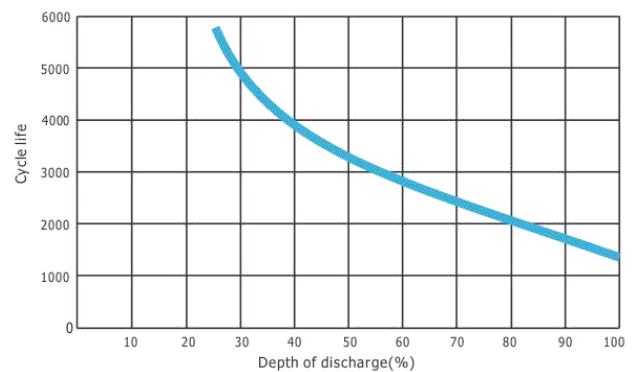
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 200 Ah (C10)                                                                 |
| Energy                           | 400 Wh                                                                       |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.25-2.29V (-3mV/°C/cell) |
| Max. Charge Current              | 40 A                                                                         |
| Max. Discharge Current           | 1000 A                                                                       |
| Internal Resistance              | 0.31 mΩ                                                                      |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                           |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                         |

## CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV2-200** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

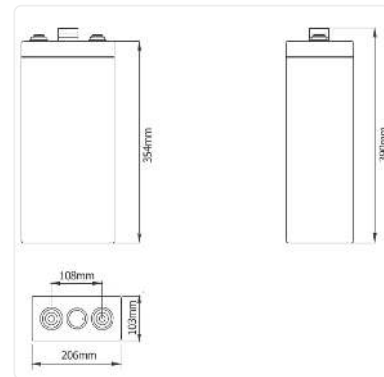
**Length:** 103 mm

**Width:** 206 mm

**Height:** 354 mm

**Total Height:** 390 mm

**Weight:** 16.3 kg



### 2. TERMINAL CONFIGURATION (F10)

**Terminals:** Ensure your system's connectors match the F10 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 2.35-2.40V (-5mV/°C/cell)

Float use: 2.25-2.29V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 40 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV2-150** (2 V · 150 Ah) · **ROV2-250** (2 V · 250 Ah) · [See all ROV series models](#)

**Specialized Technical Support**  
<https://rekoser.com> | +34 958 04 29 73

## The best of lead. Maintenance-free with extreme service life.

The ROV2-250 is a 2 V, 250 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 124 × 206 × 354 mm and weighs 20.3 kg, with F10 terminals. It stores 500 Wh and delivers up to 1000 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly RKV2-250.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 250 Ah (C10)       |
| Energy          | 500 Wh             |
| Weight          | 20.3 kg            |
| Terminal        | F10                |
| Dimensions      | 124 × 206 × 354 mm |

## MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

**20**  
YEARS

### LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

### WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

## MAIN APPLICATIONS



SOLAR/WIND ENERGY  
SYSTEMS



ELECTRICAL SUBSTATIONS



TELECOMMUNICATIONS  
AND BASE STATIONS



RAILWAY SIGNALING AND  
INFRASTRUCTURE



MARITIME



UPS AND DATA CENTERS

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

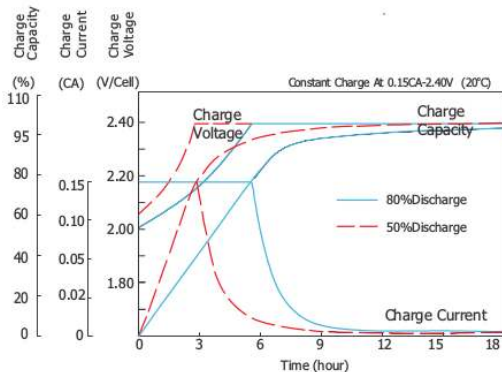
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  |
|------------|-------|-------|-------|-------|-------|-------|-------|
| 1.90 V     | 91.7A | 89.2A | 83.3A | 70A   | 50A   | 37A   | 21.9A |
| 1.85 V     | 144A  | 132A  | 113A  | 89.2A | 59.3A | 42.8A | 24A   |
| 1.80 V     | 187A  | 170A  | 137A  | 108A  | 65.7A | 44.6A | 25A   |
| 1.75 V     | 199A  | 187A  | 161A  | 118A  | 67.5A | 45.5A | 25.8A |
| 1.70 V     | 216A  | 205A  | 177A  | 125A  | 68.8A | 46.3A | 26.3A |

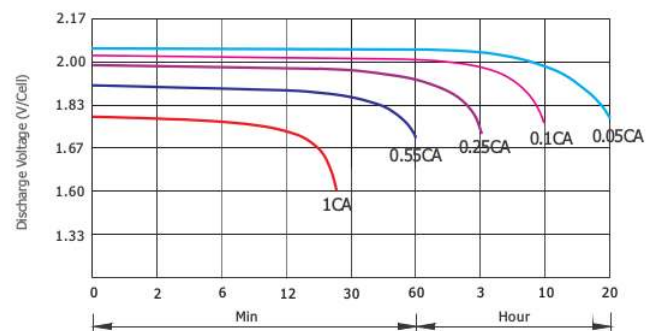
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR   | 10HR  |
|------------|-------|-------|-------|------|------|-------|-------|
| 1.90 V     | 177W  | 173W  | 162W  | 137W | 100W | 74.1W | 44.2W |
| 1.85 V     | 269W  | 247W  | 214W  | 170W | 116W | 84.1W | 47.8W |
| 1.80 V     | 341W  | 311W  | 253W  | 202W | 125W | 85.9W | 48.7W |
| 1.75 V     | 356W  | 336W  | 293W  | 217W | 127W | 86.4W | 49.6W |
| 1.70 V     | 382W  | 364W  | 317W  | 226W | 128W | 86.9W | 50.2W |

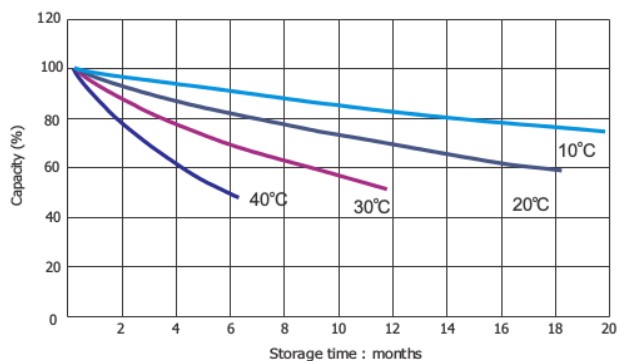
CHARGE CHARACTERISTICS



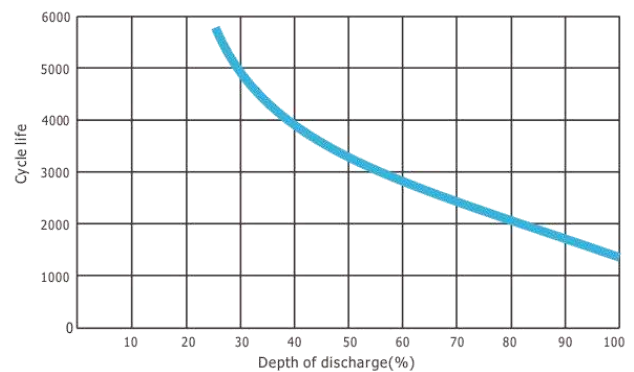
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 250 Ah (C10)                                                                 |
| Energy                           | 500 Wh                                                                       |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.25-2.29V (-3mV/°C/cell) |
| Max. Charge Current              | 50 A                                                                         |
| Max. Discharge Current           | 1000 A                                                                       |
| Internal Resistance              | 0.31 mΩ                                                                      |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                           |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                         |

## CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV2-250** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

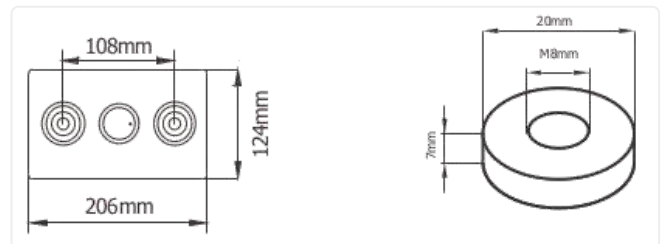
**Length:** 124 mm

**Width:** 206 mm

**Height:** 354 mm

**Total Height:** 390 mm

**Weight:** 20.3 kg



### 2. TERMINAL CONFIGURATION (F10)

**Terminals:** Ensure your system's connectors match the F10 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 2.35-2.40V (-5mV/°C/cell)

Float use: 2.25-2.29V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 50 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV2-200** (2 V · 200 Ah) · **ROV2-300** (2 V · 300 Ah) · [See all ROV series models](#)

**Specialized Technical Support**  
<https://rekoser.com> | +34 958 04 29 73

## The best of lead. Maintenance-free with extreme service life.

The ROV2-300 is a 2 V, 300 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 145 × 206 × 354 mm and weighs 24 kg, with F10 terminals. It stores 600 Wh and delivers up to 1500 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKV2-300**.



## MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 300 Ah (C10)       |
| Energy          | 600 Wh             |
| Weight          | 24 kg              |
| Terminal        | F10                |
| Dimensions      | 145 × 206 × 354 mm |

**20**  
YEARS

## LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

## WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

## MAIN APPLICATIONS



SOLAR/WIND ENERGY SYSTEMS



ELECTRICAL SUBSTATIONS



TELECOMMUNICATIONS AND BASE STATIONS



RAILWAY SIGNALING AND INFRASTRUCTURE



MARITIME



UPS AND DATA CENTERS

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

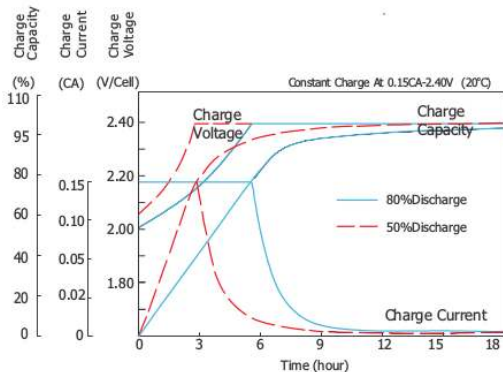
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  |
|------------|-------|-------|-------|------|-------|-------|-------|
| 1.90 V     | 110A  | 107A  | 100A  | 84A  | 60A   | 44.4A | 26.3A |
| 1.85 V     | 172A  | 158A  | 136A  | 107A | 71.1A | 51.3A | 28.9A |
| 1.80 V     | 225A  | 204A  | 165A  | 130A | 78.8A | 53.6A | 30A   |
| 1.75 V     | 238A  | 224A  | 193A  | 142A | 81A   | 54.6A | 30.9A |
| 1.70 V     | 259A  | 246A  | 212A  | 150A | 82.5A | 55.5A | 31.5A |

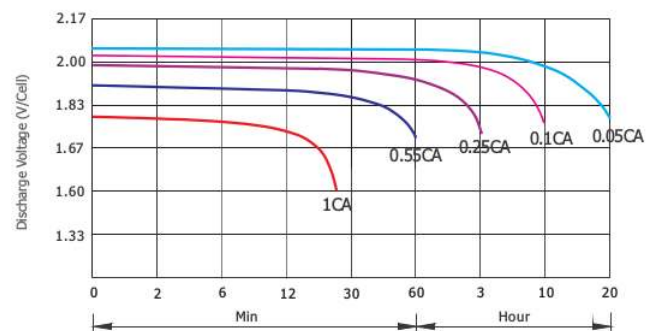
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR   | 10HR  |
|------------|-------|-------|-------|------|------|-------|-------|
| 1.90 V     | 212W  | 207W  | 195W  | 165W | 119W | 88.9W | 53.1W |
| 1.85 V     | 322W  | 296W  | 257W  | 204W | 139W | 101W  | 57.4W |
| 1.80 V     | 409W  | 373W  | 304W  | 242W | 150W | 103W  | 58.4W |
| 1.75 V     | 427W  | 403W  | 351W  | 260W | 152W | 104W  | 59.5W |
| 1.70 V     | 458W  | 437W  | 380W  | 271W | 153W | 105W  | 60.2W |

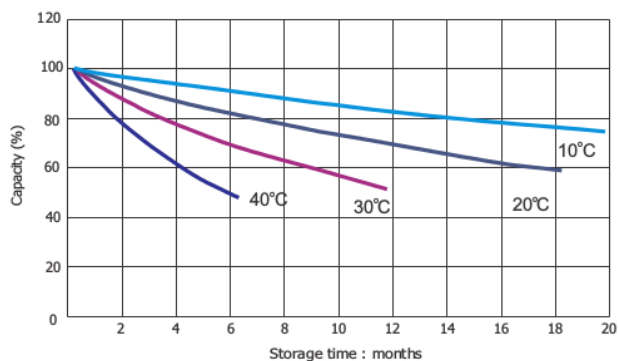
CHARGE CHARACTERISTICS



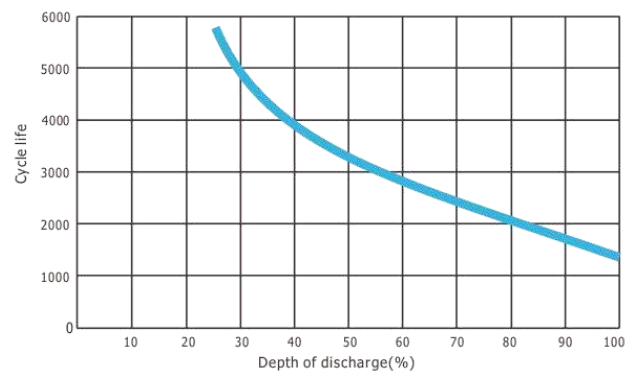
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 300 Ah (C10)                                                                 |
| Energy                           | 600 Wh                                                                       |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.25-2.29V (-3mV/°C/cell) |
| Max. Charge Current              | 60 A                                                                         |
| Max. Discharge Current           | 1500 A                                                                       |
| Internal Resistance              | 0.31 mΩ                                                                      |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                           |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                         |

## CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV2-300** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

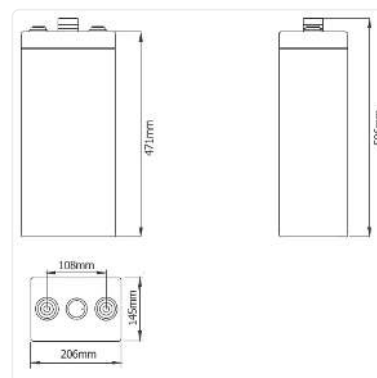
**Length:** 145 mm

**Width:** 206 mm

**Height:** 354 mm

**Total Height:** 390 mm

**Weight:** 24 kg



### 2. TERMINAL CONFIGURATION (F10)

**Terminals:** Ensure your system's connectors match the F10 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 2.35-2.40V (-5mV/°C/cell)

Float use: 2.25-2.29V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 60 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV2-250** (2 V · 250 Ah) · **ROV2-350** (2 V · 350 Ah) · [See all ROV series models](#)

**Specialized Technical Support**  
<https://rekoser.com> | +34 958 04 29 73

## The best of lead. Maintenance-free with extreme service life.

The ROV2-350 is a 2 V, 350 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 124 × 206 × 471 mm and weighs 26.5 kg, with F10 terminals. It stores 700 Wh and delivers up to 2500 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKV2-350**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 350 Ah (C10)       |
| Energy          | 700 Wh             |
| Weight          | 26.5 kg            |
| Terminal        | F10                |
| Dimensions      | 124 × 206 × 471 mm |

## MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

**20**  
YEARS

### LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

### WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS AND BASE STATIONS**



**RAILWAY SIGNALING AND INFRASTRUCTURE**



**MARITIME**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

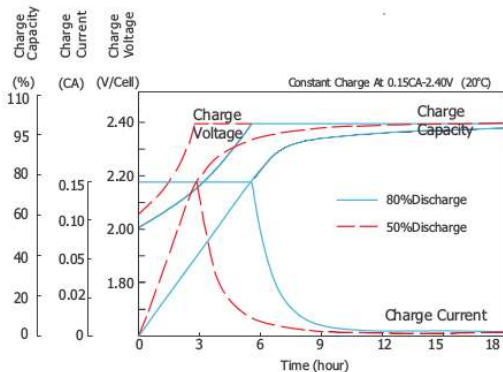
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  |
|------------|-------|-------|-------|------|-------|-------|-------|
| 1.90 V     | 128A  | 125A  | 117A  | 98A  | 70A   | 51.8A | 30.6A |
| 1.85 V     | 201A  | 184A  | 159A  | 125A | 83A   | 59.9A | 33.7A |
| 1.80 V     | 262A  | 238A  | 192A  | 152A | 92A   | 62.5A | 35A   |
| 1.75 V     | 278A  | 278A  | 225A  | 165A | 94.5A | 63.7A | 36.1A |
| 1.70 V     | 303A  | 287A  | 247A  | 174A | 96.3A | 64.8A | 36.8A |

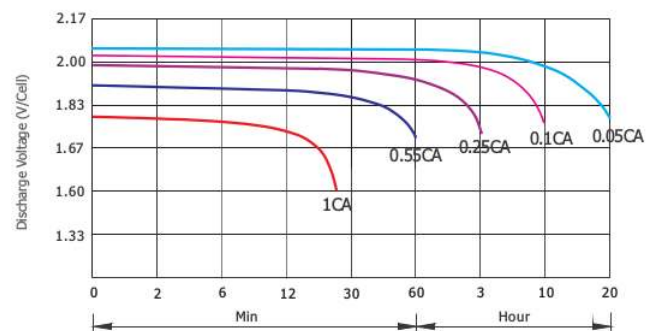
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR  |
|------------|-------|-------|-------|------|------|------|-------|
| 1.90 V     | 248W  | 242W  | 227W  | 192W | 139W | 104W | 61.9W |
| 1.85 V     | 376W  | 346W  | 300W  | 238W | 162W | 118W | 66.9W |
| 1.80 V     | 478W  | 435W  | 354W  | 283W | 175W | 120W | 68.2W |
| 1.75 V     | 498W  | 470W  | 410W  | 304W | 177W | 121W | 69.4W |
| 1.70 V     | 535W  | 510W  | 444W  | 317W | 179W | 122W | 70.2W |

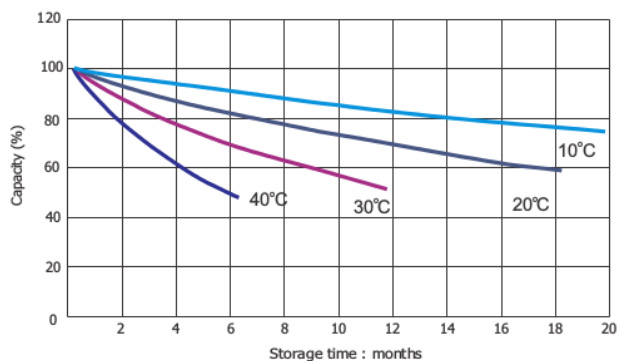
CHARGE CHARACTERISTICS



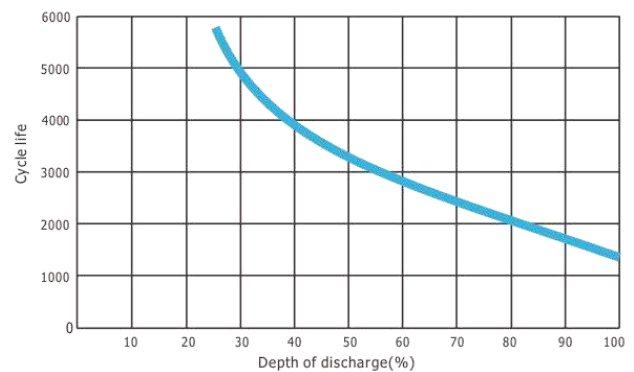
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 350 Ah (C10)                                                                 |
| Energy                           | 700 Wh                                                                       |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.25-2.29V (-3mV/°C/cell) |
| Max. Charge Current              | 240 A                                                                        |
| Max. Discharge Current           | 2500 A                                                                       |
| Internal Resistance              | 0.31 mΩ                                                                      |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                           |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                         |

CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV2-350** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

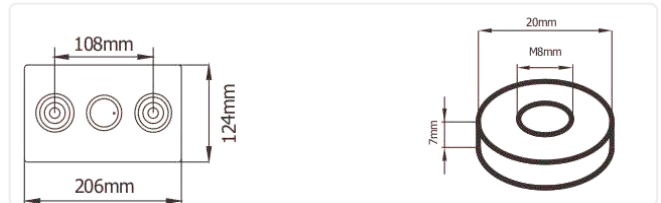
**Length:** 124 mm

**Width:** 206 mm

**Height:** 471 mm

**Total Height:** 506 mm

**Weight:** 26.5 kg



### 2. TERMINAL CONFIGURATION (F10)

**Terminals:** Ensure your system's connectors match the F10 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 2.35-2.40V (-5mV/°C/cell)

Float use: 2.25-2.29V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 240 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV2-300** (2 V · 300 Ah) · **ROV2-420** (2 V · 420 Ah) · [See all ROV series models](#)

**Specialized Technical Support**  
<https://rekoser.com> | +34 958 04 29 73

## The best of lead. Maintenance-free with extreme service life.

The ROV2-420 is a 2 V, 420 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 145 × 206 × 471 mm and weighs 31 kg, with IT-M8-CU-20-7 terminals. It stores 840 Wh and delivers up to 2100 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKV2-420**.



### MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 420 Ah (C10)       |
| Energy          | 840 Wh             |
| Weight          | 31 kg              |
| Terminal        | IT-M8-CU-20-7      |
| Dimensions      | 145 × 206 × 471 mm |

**20**  
YEARS

### LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

### WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

### MAIN APPLICATIONS



SOLAR/WIND ENERGY SYSTEMS



ELECTRICAL SUBSTATIONS



TELECOMMUNICATIONS AND BASE STATIONS



RAILWAY SIGNALING AND INFRASTRUCTURE



MARITIME



UPS AND DATA CENTERS

### QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

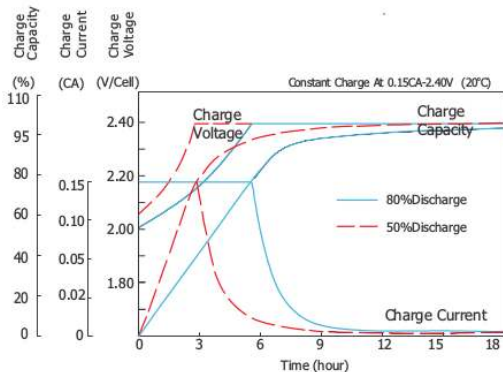
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR   | 10HR  |
|------------|-------|-------|-------|------|------|-------|-------|
| 1.90 V     | 154A  | 150A  | 140A  | 118A | 84A  | 62.2A | 36.8A |
| 1.85 V     | 241A  | 221A  | 190A  | 150A | 100A | 71.8A | 40.4A |
| 1.80 V     | 315A  | 286A  | 230A  | 182A | 110A | 75A   | 42A   |
| 1.75 V     | 334A  | 314A  | 270A  | 198A | 113A | 76.4A | 43.3A |
| 1.70 V     | 363A  | 344A  | 297A  | 209A | 116A | 77.7A | 44.1A |

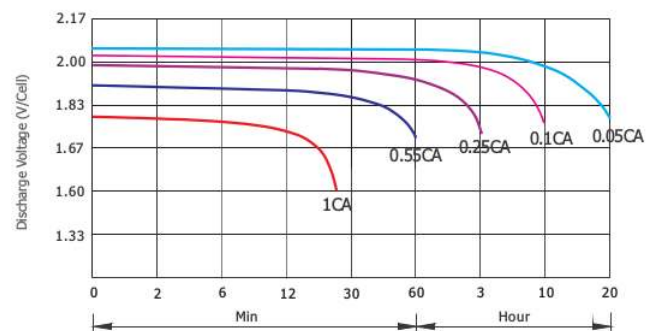
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR  |
|------------|-------|-------|-------|------|------|------|-------|
| 1.90 V     | 297W  | 290W  | 273W  | 231W | 167W | 125W | 74.3W |
| 1.85 V     | 451W  | 415W  | 260W  | 286W | 194W | 141W | 80.3W |
| 1.80 V     | 573W  | 522W  | 425W  | 339W | 210W | 144W | 81.8W |
| 1.75 V     | 598W  | 564W  | 491W  | 364W | 213W | 145W | 83.3W |
| 1.70 V     | 642W  | 611W  | 532W  | 380W | 215W | 146W | 84.3W |

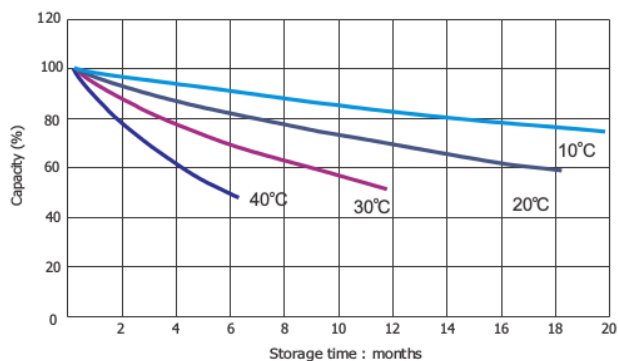
CHARGE CHARACTERISTICS



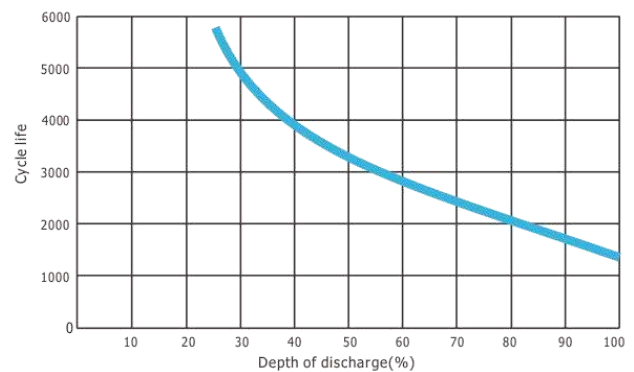
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 420 Ah (C10)                                                                 |
| Energy                           | 840 Wh                                                                       |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.25-2.29V (-3mV/°C/cell) |
| Max. Charge Current              | 84 A                                                                         |
| Max. Discharge Current           | 2100 A                                                                       |
| Short-circuit current            | 3400A                                                                        |
| Internal Resistance              | 0.7 mΩ                                                                       |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                           |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                         |

## CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV2-420** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

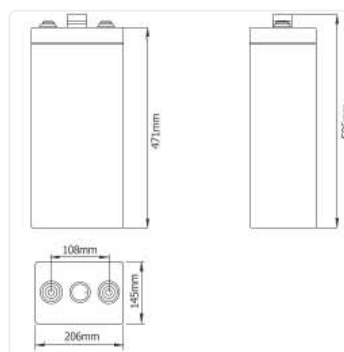
**Length:** 145 mm

**Width:** 206 mm

**Height:** 471 mm

**Total Height:** 506 mm

**Weight:** 31 kg



Terminal IT-M8-CU-20-7

### 2. TERMINAL CONFIGURATION (IT-M8-CU-20-7)

**Terminals:** Ensure your system's connectors match the IT-M8-CU-20-7 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 2.35-2.40V (-5mV/°C/cell)

Float use: 2.25-2.29V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 84 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV2-350** (2 V · 350 Ah) · **ROV2-500** (2 V · 500 Ah) · [See all ROV series models](#)

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## The best of lead. Maintenance-free with extreme service life.

The ROV2-500 is a 2 V, 500 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 166 × 206 × 471 mm and weighs 35 kg, with T22 terminals. It stores 1 kWh and delivers up to 2500 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly RKV2-500.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 500 Ah (C10)       |
| Energy          | 1000 Wh            |
| Weight          | 35 kg              |
| Terminal        | T22                |
| Dimensions      | 166 × 206 × 471 mm |

## MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

**20**  
YEARS

**LONG LIFE DESIGN**

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

**WARRANTY**

\* Subject to charge and temperature parameters stipulated in this datasheet.

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS AND BASE STATIONS**



**RAILWAY SIGNALING AND INFRASTRUCTURE**



**MARITIME**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

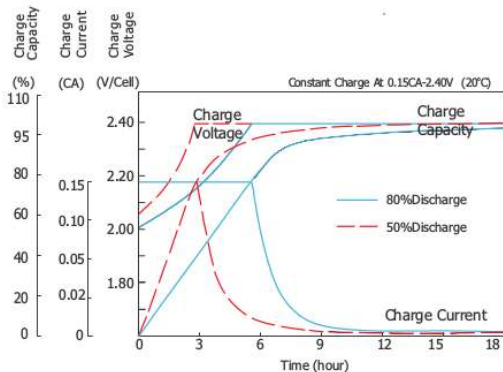
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR   | 10HR  |
|------------|-------|-------|-------|------|------|-------|-------|
| 1.90 V     | 180A  | 175A  | 163A  | 137A | 98A  | 72.6A | 42.9A |
| 1.85 V     | 282A  | 258A  | 222A  | 175A | 116A | 83.8A | 47.1A |
| 1.80 V     | 367A  | 333A  | 269A  | 212A | 129A | 87.5A | 49A   |
| 1.75 V     | 390A  | 366A  | 315A  | 231A | 132A | 89.2A | 50.5A |
| 1.70 V     | 424A  | 402A  | 346A  | 244A | 135A | 90.7A | 51.5A |

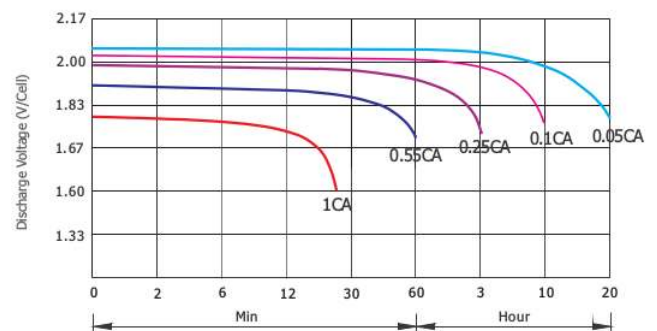
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR  |
|------------|-------|-------|-------|------|------|------|-------|
| 1.90 V     | 347W  | 338W  | 318W  | 269W | 195W | 145W | 86.7W |
| 1.85 V     | 526W  | 484W  | 420W  | 334W | 226W | 165W | 93.7W |
| 1.80 V     | 669W  | 609W  | 496W  | 396W | 245W | 168W | 95.5W |
| 1.75 V     | 697W  | 659W  | 573W  | 425W | 248W | 169W | 97.2W |
| 1.70 V     | 748W  | 713W  | 621W  | 443W | 250W | 170W | 98.3W |

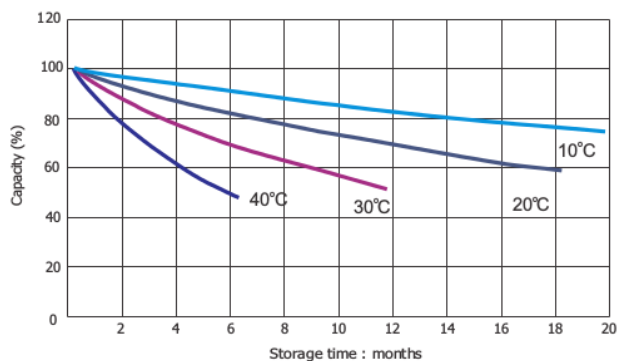
CHARGE CHARACTERISTICS



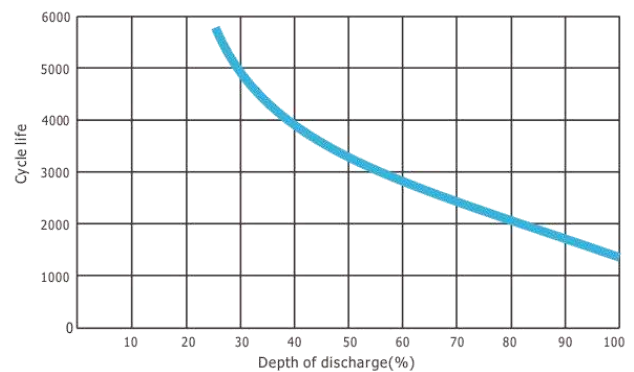
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 500 Ah (C10)                                                                 |
| Energy                           | 1000 Wh                                                                      |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.25-2.29V (-3mV/°C/cell) |
| Max. Charge Current              | 100 A                                                                        |
| Max. Discharge Current           | 2500 A                                                                       |
| Internal Resistance              | 0.6 mΩ                                                                       |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                           |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                         |

## CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV2-500** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

**Length:** 166 mm

**Width:** 206 mm

**Height:** 471 mm

**Total Height:** 506 mm

**Weight:** 35 kg

### 2. TERMINAL CONFIGURATION (T22)

**Terminals:** Ensure your system's connectors match the T22 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 2.35-2.40V (-5mV/°C/cell)

Float use: 2.25-2.29V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 100 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV2-420** (2 V · 420 Ah) · **ROV2-600** (2 V · 600 Ah) · [See all ROV series models](#)

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## The best of lead. Maintenance-free with extreme service life.

The ROV2-600 is a 2 V, 600 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 145 × 206 × 646 mm and weighs 42 kg, with F10 terminals. It stores 1.2 kWh and delivers up to 2000 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKV2-600**.



## MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 600 Ah (C10)       |
| Energy          | 1200 Wh            |
| Weight          | 42 kg              |
| Terminal        | F10                |
| Dimensions      | 145 × 206 × 646 mm |

**20**  
YEARS

## LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

## WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

## MAIN APPLICATIONS



SOLAR/WIND ENERGY SYSTEMS



ELECTRICAL SUBSTATIONS



TELECOMMUNICATIONS AND BASE STATIONS



RAILWAY SIGNALING AND INFRASTRUCTURE



MARITIME



UPS AND DATA CENTERS

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

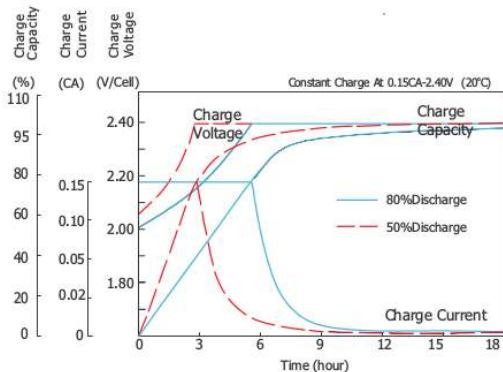
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR   | 10HR  |
|------------|-------|-------|-------|------|------|-------|-------|
| 1.90 V     | 220A  | 214A  | 200A  | 168A | 120A | 88.9A | 52.5A |
| 1.85 V     | 345A  | 316A  | 272A  | 214A | 142A | 103A  | 57.7A |
| 1.80 V     | 450A  | 408A  | 329A  | 260A | 158A | 107A  | 60A   |
| 1.75 V     | 477A  | 448A  | 386A  | 283A | 162A | 109A  | 61.8A |
| 1.70 V     | 519A  | 492A  | 424A  | 299A | 165A | 111A  | 63A   |

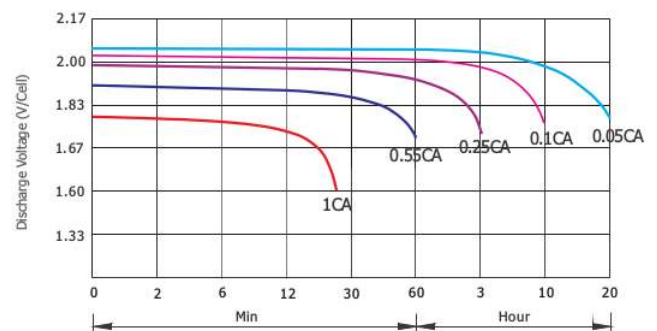
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR |
|------------|-------|-------|-------|------|------|------|------|
| 1.90 V     | 425W  | 414W  | 389W  | 330W | 239W | 178W | 106W |
| 1.85 V     | 644W  | 593W  | 514W  | 409W | 277W | 202W | 115W |
| 1.80 V     | 819W  | 746W  | 607W  | 485W | 320W | 206W | 120W |
| 1.75 V     | 854W  | 806W  | 702W  | 520W | 304W | 207W | 120W |
| 1.70 V     | 917W  | 873W  | 761W  | 543W | 607W | 209W | 121W |

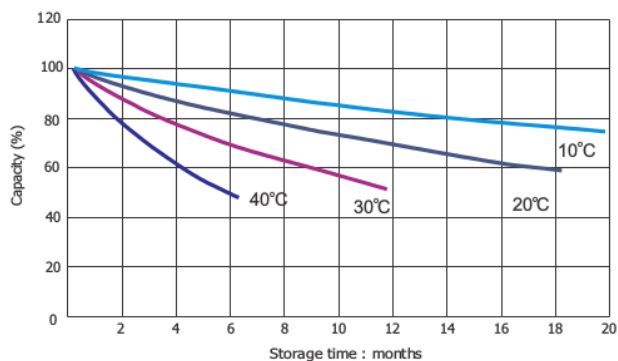
CHARGE CHARACTERISTICS



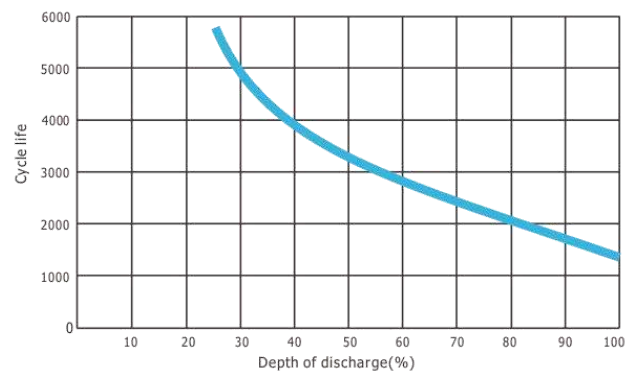
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 600 Ah (C10)                                                                 |
| Energy                           | 1200 Wh                                                                      |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.25-2.29V (-3mV/°C/cell) |
| Max. Charge Current              | 120 A                                                                        |
| Max. Discharge Current           | 2000 A                                                                       |
| Internal Resistance              | 0.63 mΩ                                                                      |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                           |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                         |

## CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV2-600** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

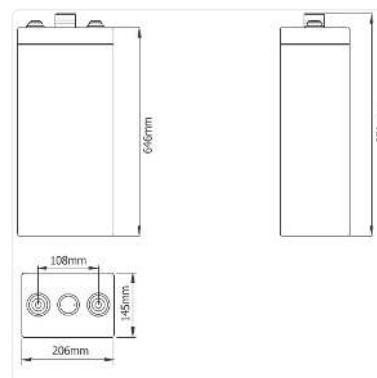
**Length:** 145 mm

**Width:** 206 mm

**Height:** 646 mm

**Total Height:** 681 mm

**Weight:** 42 kg



### 2. TERMINAL CONFIGURATION (F10)

**Terminals:** Ensure your system's connectors match the F10 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 2.35-2.40V (-5mV/°C/cell)

Float use: 2.25-2.29V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 120 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV2-500** (2 V · 500 Ah) · **ROV2-800** (2 V · 800 Ah) · [See all ROV series models](#)

**Specialized Technical Support**

<https://rekoser.com> | +34 958 04 29 73

## The best of lead. Maintenance-free with extreme service life.

The ROV2-800 is a 2 V, 800 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 191 × 210 × 646 mm and weighs 58.5 kg, with F10 terminals. It stores 1.6 kWh and delivers up to 2000 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly RKV2-800.



### MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 800 Ah (C10)       |
| Energy          | 1600 Wh            |
| Weight          | 58.5 kg            |
| Terminal        | F10                |
| Dimensions      | 191 × 210 × 646 mm |

**20**  
YEARS

### LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

### WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

### MAIN APPLICATIONS



SOLAR/WIND ENERGY SYSTEMS



ELECTRICAL SUBSTATIONS



TELECOMMUNICATIONS AND BASE STATIONS



RAILWAY SIGNALING AND INFRASTRUCTURE



MARITIME



UPS AND DATA CENTERS

### QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

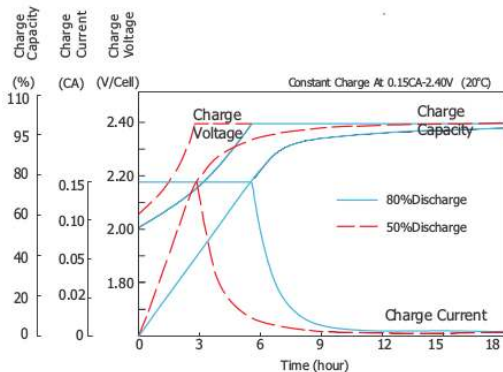
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR  |
|------------|-------|-------|-------|------|------|------|-------|
| 1.90 V     | 289A  | 281A  | 263A  | 221A | 158A | 117A | 69A   |
| 1.85 V     | 453A  | 415A  | 357A  | 281A | 187A | 135A | 75.8A |
| 1.80 V     | 591A  | 536A  | 432A  | 341A | 207A | 141A | 80A   |
| 1.75 V     | 626A  | 588A  | 507A  | 372A | 213A | 143A | 81.2A |
| 1.70 V     | 682A  | 646A  | 557A  | 393A | 217A | 146A | 82.7A |

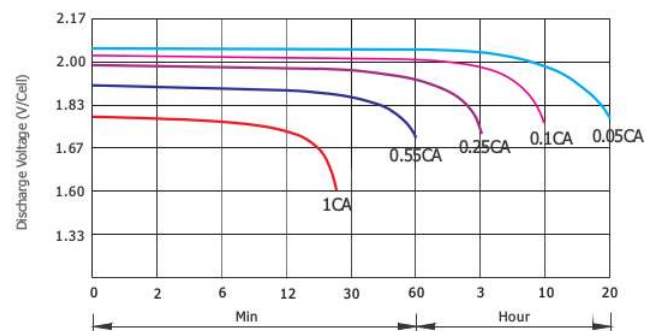
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR |
|------------|-------|-------|-------|------|------|------|------|
| 1.90 V     | 558W  | 544W  | 511W  | 433W | 314W | 234W | 139W |
| 1.85 V     | 846W  | 779W  | 675W  | 537W | 364W | 265W | 151W |
| 1.80 V     | 1075W | 980W  | 797W  | 637W | 395W | 271W | 154W |
| 1.75 V     | 1122W | 1059W | 922W  | 684W | 400W | 272W | 156W |
| 1.70 V     | 1204W | 1147W | 999W  | 713W | 403W | 274W | 158W |

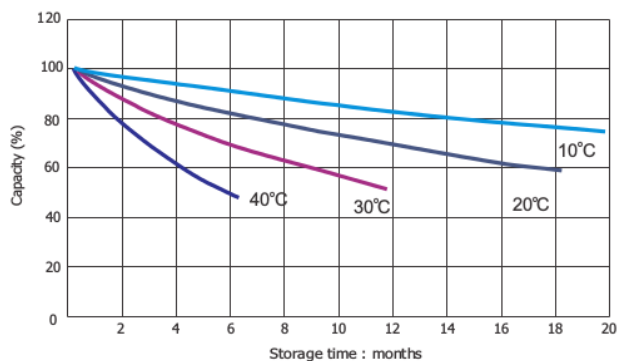
CHARGE CHARACTERISTICS



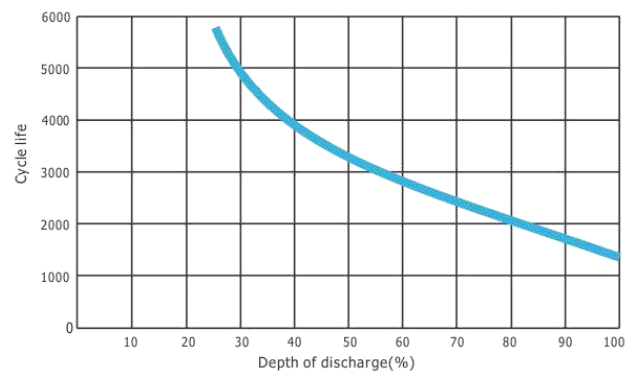
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 800 Ah (C10)                                                                 |
| Energy                           | 1600 Wh                                                                      |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.25-2.29V (-3mV/°C/cell) |
| Max. Charge Current              | 160 A                                                                        |
| Max. Discharge Current           | 2000 A                                                                       |
| Internal Resistance              | 0.31 mΩ                                                                      |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                           |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                         |

## CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV2-800** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

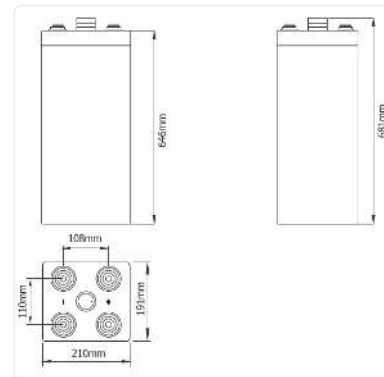
**Length:** 191 mm

**Width:** 210 mm

**Height:** 646 mm

**Total Height:** 681 mm

**Weight:** 58.5 kg



### 2. TERMINAL CONFIGURATION (F10)

**Terminals:** Ensure your system's connectors match the F10 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 2.35-2.40V (-5mV/°C/cell)

Float use: 2.25-2.29V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 160 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV2-600** (2 V · 600 Ah) · **ROV2-1000** (2 V · 1000 Ah) · [See all ROV series models](#)

**Specialized Technical Support**  
<https://rekoser.com> | +34 958 04 29 73

## The best of lead. Maintenance-free with extreme service life.

The ROV2-1000 is a 2 V, 1000 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 233 × 210 × 646 mm and weighs 69 kg, with F10 terminals. It stores 2 kWh and delivers up to 2500 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKV2-1000**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 1000 Ah (C10)      |
| Energy          | 2000 Wh            |
| Weight          | 69 kg              |
| Terminal        | F10                |
| Dimensions      | 233 × 210 × 646 mm |

## MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

**20**  
YEARS

### LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

### WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS AND BASE STATIONS**



**RAILWAY SIGNALING AND INFRASTRUCTURE**



**MARITIME**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

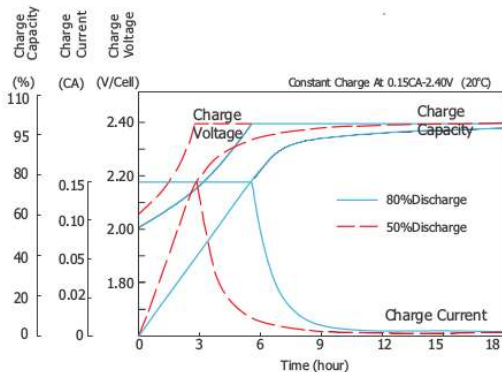
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR  |
|------------|-------|-------|-------|------|------|------|-------|
| 1.90 V     | 358A  | 348A  | 325A  | 273A | 196A | 145A | 86.6A |
| 1.85 V     | 561A  | 514A  | 442A  | 348A | 232A | 168A | 95.2A |
| 1.80 V     | 731A  | 663A  | 535A  | 423A | 257A | 175A | 100A  |
| 1.75 V     | 775A  | 728A  | 627A  | 460A | 265A | 178A | 102A  |
| 1.70 V     | 843A  | 800A  | 689A  | 486A | 270A | 181A | 104A  |

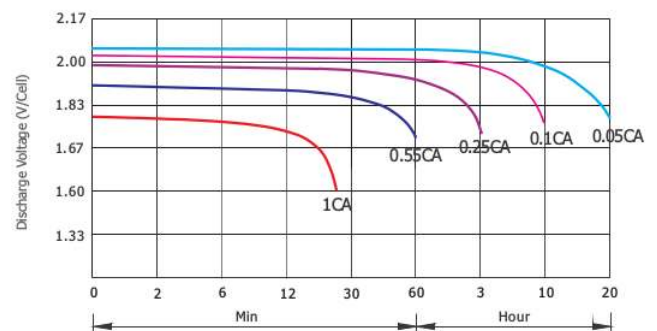
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR |
|------------|-------|-------|-------|------|------|------|------|
| 1.90 V     | 691W  | 673W  | 633W  | 536W | 390W | 291W | 173W |
| 1.85 V     | 1047W | 963W  | 835W  | 664W | 453W | 330W | 187W |
| 1.80 V     | 1330W | 1212W | 986W  | 788W | 491W | 337W | 191W |
| 1.75 V     | 1388W | 1310W | 1141W | 846W | 497W | 339W | 194W |
| 1.70 V     | 1489W | 1419W | 1236W | 882W | 501W | 341W | 197W |

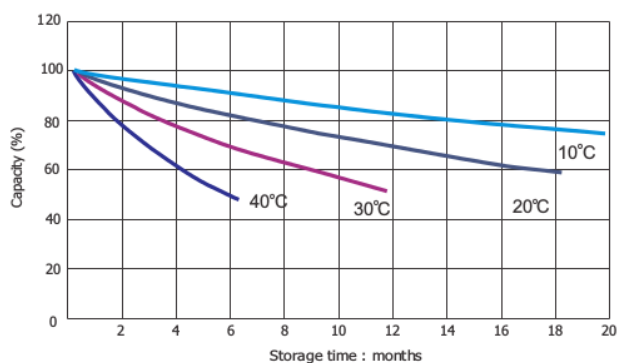
CHARGE CHARACTERISTICS



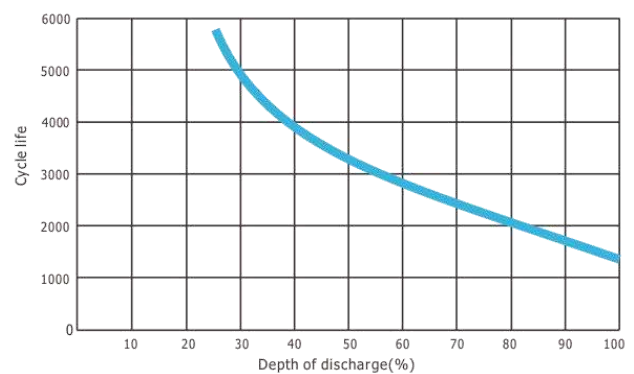
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 1000 Ah (C10)                                                                |
| Energy                           | 2000 Wh                                                                      |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.25-2.29V (-3mV/°C/cell) |
| Max. Charge Current              | 200 A                                                                        |
| Max. Discharge Current           | 2500 A                                                                       |
| Internal Resistance              | 0.31 mΩ                                                                      |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                           |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                         |

## CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV2-1000** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

**Length:** 233 mm

**Width:** 210 mm

**Height:** 646 mm

**Total Height:** 681 mm

**Weight:** 69 kg

### 2. TERMINAL CONFIGURATION (F10)

**Terminals:** Ensure your system's connectors match the F10 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 2.35-2.40V (-5mV/°C/cell)

Float use: 2.25-2.29V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 200 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV2-800** (2 V · 800 Ah) · **ROV2-1200** (2 V · 1200 Ah) · [See all ROV series models](#)

**Specialized Technical Support**  
<https://rekoser.com> | +34 958 04 29 73

## The best of lead. Maintenance-free with extreme service life.

The ROV2-1200 is a 2 V, 1200 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 275 × 210 × 646 mm and weighs 84 kg, with F10 terminals. It stores 2.4 kWh and delivers up to 2500 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKV2-1200**.



### MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 1200 Ah (C10)      |
| Energy          | 2400 Wh            |
| Weight          | 84 kg              |
| Terminal        | F10                |
| Dimensions      | 275 × 210 × 646 mm |

**20**  
YEARS

### LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

### WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

### MAIN APPLICATIONS



SOLAR/WIND ENERGY SYSTEMS



ELECTRICAL SUBSTATIONS



TELECOMMUNICATIONS AND BASE STATIONS



RAILWAY SIGNALING AND INFRASTRUCTURE



MARITIME



UPS AND DATA CENTERS

### QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

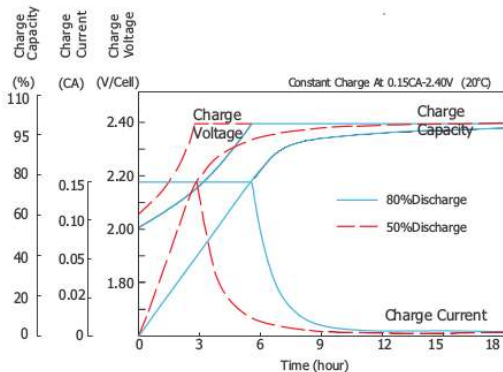
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR |
|------------|-------|-------|-------|------|------|------|------|
| 1.90 V     | 429A  | 417A  | 390A  | 328A | 235A | 174A | 103A |
| 1.85 V     | 673A  | 616A  | 530A  | 417A | 279A | 201A | 113A |
| 1.80 V     | 877A  | 796A  | 642A  | 507A | 309A | 210A | 120A |
| 1.75 V     | 930A  | 874A  | 753A  | 552A | 318A | 214A | 121A |
| 1.70 V     | 1012A | 959A  | 827A  | 583A | 323A | 218A | 123A |

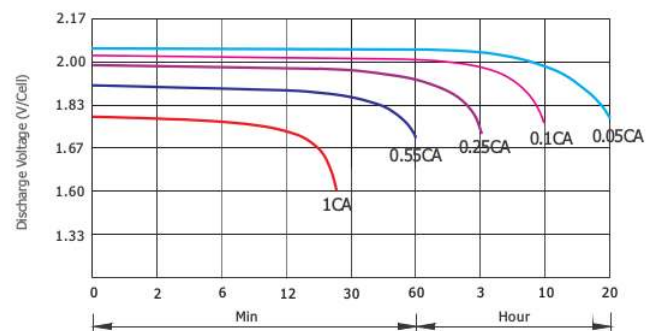
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR   | 3HR  | 5HR  | 10HR |
|------------|-------|-------|-------|-------|------|------|------|
| 1.90 V     | 829W  | 808W  | 759W  | 643W  | 468W | 349W | 208W |
| 1.85 V     | 1257W | 1156W | 1003W | 797W  | 543W | 395W | 225W |
| 1.80 V     | 1597W | 1455W | 1184W | 946W  | 589W | 404W | 229W |
| 1.75 V     | 1665W | 1572W | 1369W | 1015W | 596W | 406W | 233W |
| 1.70 V     | 1787W | 1703W | 1483W | 1058W | 601W | 409W | 236W |

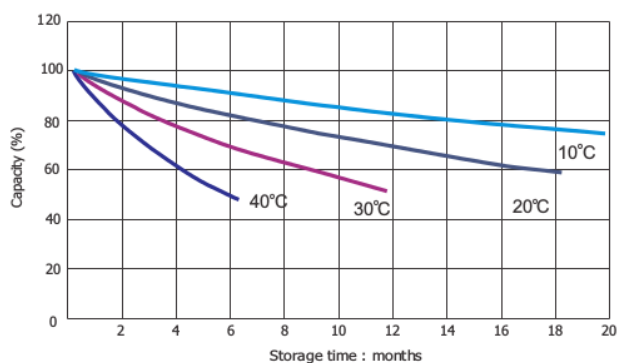
CHARGE CHARACTERISTICS



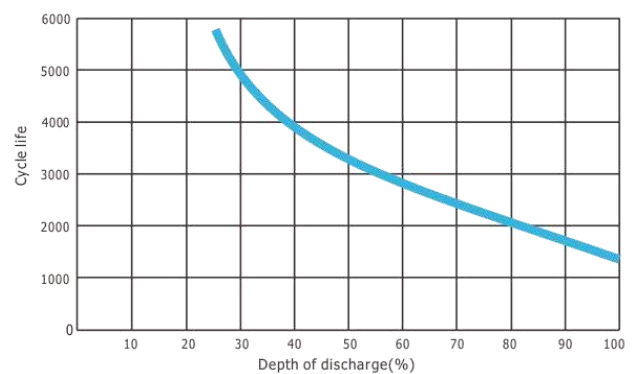
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 1200 Ah (C10), 1296 Ah (C20)                                                 |
| Energy                           | 2400 Wh                                                                      |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.25-2.29V (-3mV/°C/cell) |
| Max. Charge Current              | 240 A                                                                        |
| Max. Discharge Current           | 2500 A                                                                       |
| Internal Resistance              | 0.31 mΩ                                                                      |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                           |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                         |

## CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV2-1200** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

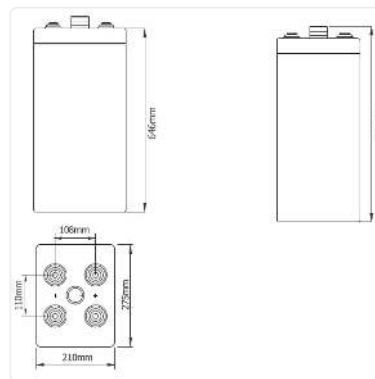
**Length:** 275 mm

**Width:** 210 mm

**Height:** 646 mm

**Total Height:** 681 mm

**Weight:** 84 kg



### 2. TERMINAL CONFIGURATION (F10)

**Terminals:** Ensure your system's connectors match the F10 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 2.35-2.40V (-5mV/°C/cell)

Float use: 2.25-2.29V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 240 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV2-1000** (2 V · 1000 Ah) · **ROV2-1250** (2 V · 1250 Ah) · [See all ROV series models](#)

**Specialized Technical Support**

<https://rekoser.com> | +34 958 04 29 73

## The best of lead. Maintenance-free with extreme service life.

The ROV2-1250 is a 2 V, 1250 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 275 × 210 × 646 mm and weighs 85 kg, with F10 terminals. It stores 2.5 kWh and delivers up to 2500 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKV2-1250**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 1250 Ah (C10)      |
| Energy          | 2500 Wh            |
| Weight          | 85 kg              |
| Terminal        | F10                |
| Dimensions      | 275 × 210 × 646 mm |

## MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

**20**  
YEARS

### LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

### WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS AND BASE STATIONS**



**RAILWAY SIGNALING AND INFRASTRUCTURE**



**MARITIME**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

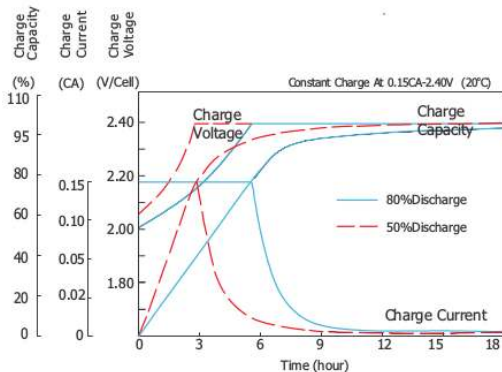
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR |
|------------|-------|-------|-------|------|------|------|------|
| 1.90 V     | 447A  | 417A  | 406A  | 342A | 245A | 181A | 107A |
| 1.85 V     | 701A  | 616A  | 552A  | 435A | 291A | 209A | 118A |
| 1.80 V     | 914A  | 796A  | 669A  | 528A | 322A | 219A | 125A |
| 1.75 V     | 969A  | 874A  | 785A  | 575A | 331A | 223A | 126A |
| 1.70 V     | 1055A | 959A  | 862A  | 607A | 337A | 227A | 128A |

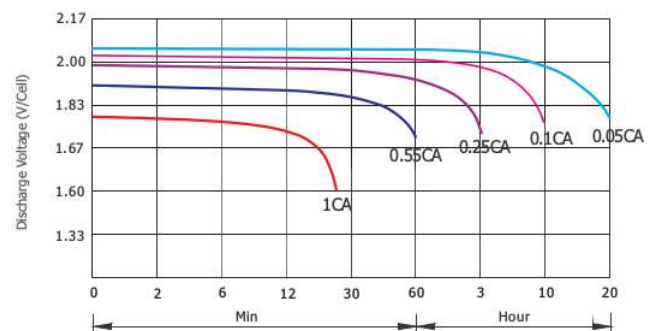
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR   | 3HR  | 5HR  | 10HR |
|------------|-------|-------|-------|-------|------|------|------|
| 1.90 V     | 864W  | 842W  | 791W  | 670W  | 488W | 364W | 217W |
| 1.85 V     | 1310W | 1205W | 1045W | 830W  | 566W | 412W | 234W |
| 1.80 V     | 1664W | 1516W | 1234W | 986W  | 614W | 421W | 239W |
| 1.75 V     | 1735W | 1638W | 1426W | 1058W | 621W | 423W | 243W |
| 1.70 V     | 1862W | 1775W | 1545W | 1102W | 626W | 426W | 246W |

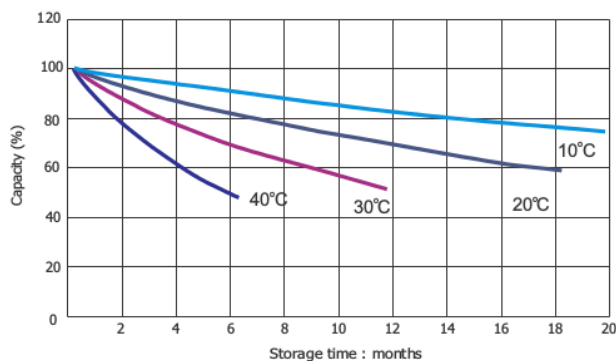
CHARGE CHARACTERISTICS



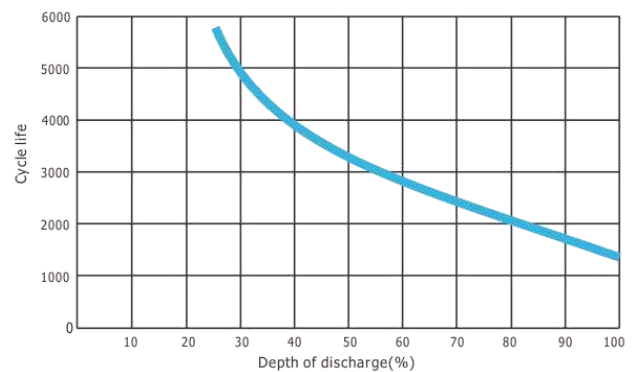
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 1250 Ah (C10), 1296 Ah (C20)                                                 |
| Energy                           | 2500 Wh                                                                      |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.25-2.29V (-3mV/°C/cell) |
| Max. Charge Current              | 250 A                                                                        |
| Max. Discharge Current           | 2500 A                                                                       |
| Internal Resistance              | 0.31 mΩ                                                                      |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                           |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                         |

## CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV2-1250** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

**Length:** 275 mm

**Width:** 210 mm

**Height:** 646 mm

**Total Height:** 681 mm

**Weight:** 85 kg

### 2. TERMINAL CONFIGURATION (F10)

**Terminals:** Ensure your system's connectors match the F10 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 2.35-2.40V (-5mV/°C/cell)

Float use: 2.25-2.29V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 250 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV2-1200** (2 V · 1200 Ah) · **ROV2-1500** (2 V · 1500 Ah) · [See all ROV series models](#)

**Specialized Technical Support**  
<https://rekoser.com> | +34 958 04 29 73

## The best of lead. Maintenance-free with extreme service life.

The ROV2-1500 is a 2 V, 1500 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 275 × 210 × 796 mm and weighs 105 kg, with F10 terminals. It stores 3 kWh and delivers up to 3000 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKV2-1500**.



### MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 1500 Ah (C10)      |
| Energy          | 3000 Wh            |
| Weight          | 105 kg             |
| Terminal        | F10                |
| Dimensions      | 275 × 210 × 796 mm |

**20**  
YEARS

### LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

### WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

### MAIN APPLICATIONS



SOLAR/WIND ENERGY SYSTEMS



ELECTRICAL SUBSTATIONS



TELECOMMUNICATIONS AND BASE STATIONS



RAILWAY SIGNALING AND INFRASTRUCTURE



MARITIME



UPS AND DATA CENTERS

### QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

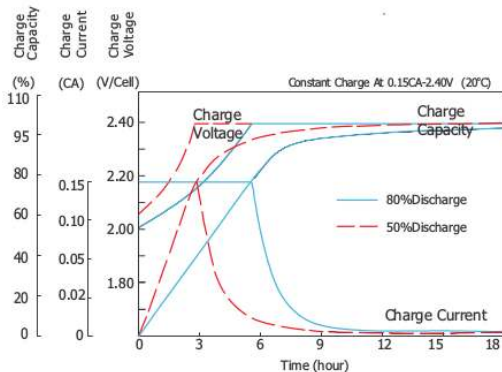
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR |
|------------|-------|-------|-------|------|------|------|------|
| 1.90 V     | 534A  | 519A  | 485A  | 407A | 294A | 218A | 129A |
| 1.85 V     | 837A  | 766A  | 660A  | 519A | 349A | 251A | 141A |
| 1.80 V     | 1091A | 989A  | 798A  | 631A | 386A | 262A | 150A |
| 1.75 V     | 1157A | 1086A | 936A  | 686A | 397A | 268A | 151A |
| 1.70 V     | 1259A | 1193A | 1028A | 725A | 404A | 272A | 154A |

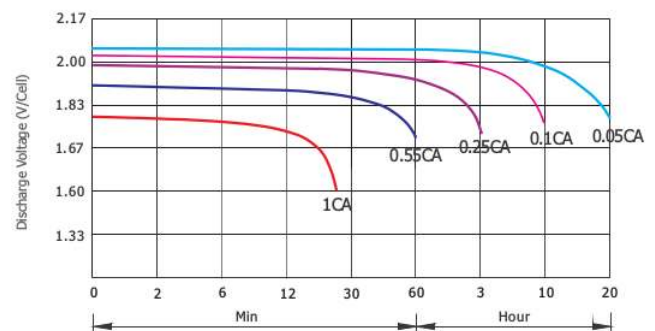
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR   | 3HR  | 5HR  | 10HR |
|------------|-------|-------|-------|-------|------|------|------|
| 1.90 V     | 1031W | 1005W | 944W  | 799W  | 585W | 436W | 260W |
| 1.85 V     | 1563W | 1438W | 1247W | 991W  | 679W | 494W | 281W |
| 1.80 V     | 1985W | 1809W | 1472W | 1176W | 736W | 505W | 286W |
| 1.75 V     | 2071W | 1956W | 1702W | 1262W | 745W | 508W | 292W |
| 1.70 V     | 2223W | 2118W | 1845W | 1316W | 751W | 511W | 295W |

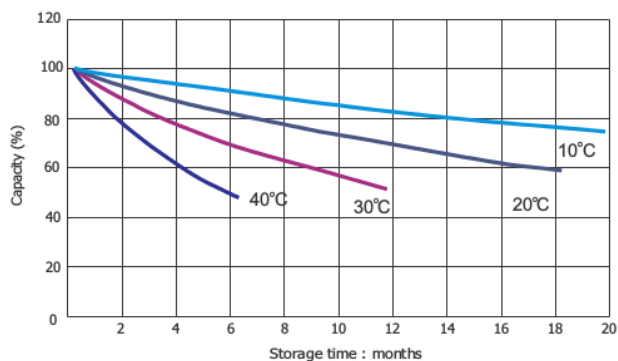
CHARGE CHARACTERISTICS



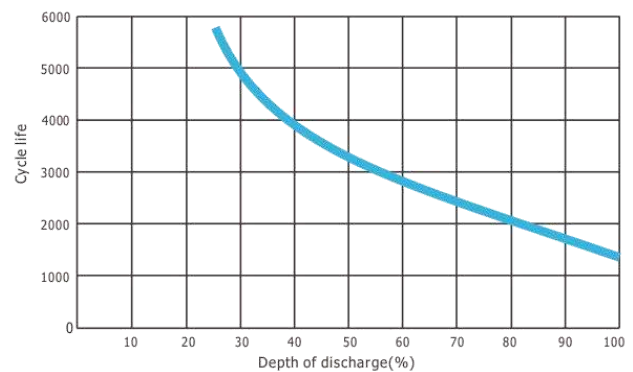
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 1500 Ah (C10)                                                                |
| Energy                           | 3000 Wh                                                                      |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.25-2.29V (-3mV/°C/cell) |
| Max. Charge Current              | 300 A                                                                        |
| Max. Discharge Current           | 3000 A                                                                       |
| Internal Resistance              | 0.31 mΩ                                                                      |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                           |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                         |

## CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV2-1500** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

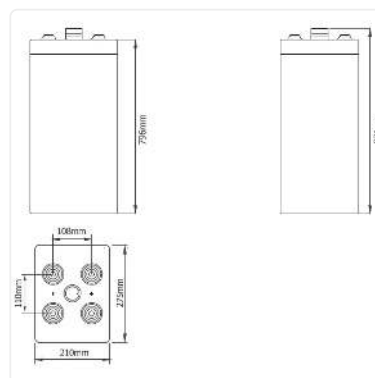
**Length:** 275 mm

**Width:** 210 mm

**Height:** 796 mm

**Total Height:** 831 mm

**Weight:** 105 kg



### 2. TERMINAL CONFIGURATION (F10)

**Terminals:** Ensure your system's connectors match the F10 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 2.35-2.40V (-5mV/°C/cell)

Float use: 2.25-2.29V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 300 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV2-1250** (2 V · 1250 Ah) · **ROV2-1800** (2 V · 1800 Ah) · [See all ROV series models](#)

**Specialized Technical Support**

<https://rekoser.com> | +34 958 04 29 73

## The best of lead. Maintenance-free with extreme service life.

The ROV2-1800 is a 2 V, 1800 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 399 × 212 × 772 mm and weighs 125 kg, with F10 terminals. It stores 3.6 kWh and delivers up to 2900 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKV2-1800**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 1800 Ah (C10)      |
| Energy          | 3600 Wh            |
| Weight          | 125 kg             |
| Terminal        | F10                |
| Dimensions      | 399 × 212 × 772 mm |

## MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

**20**  
YEARS

### LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

### WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS AND BASE STATIONS**



**RAILWAY SIGNALING AND INFRASTRUCTURE**



**MARITIME**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

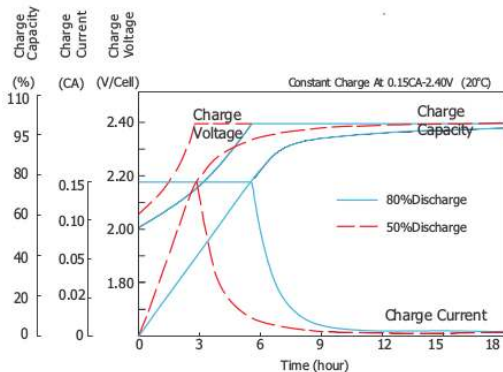
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR |
|------------|-------|-------|-------|------|------|------|------|
| 1.90 V     | 637A  | 619A  | 578A  | 488A | 352A | 261A | 155A |
| 1.85 V     | 999A  | 914A  | 787A  | 623A | 418A | 301A | 169A |
| 1.80 V     | 1302A | 1181A | 952A  | 757A | 463A | 315A | 180A |
| 1.75 V     | 1381A | 1297A | 118A  | 823A | 476A | 321A | 182A |
| 1.70 V     | 1502A | 1425A | 1228A | 870A | 485A | 327A | 185A |

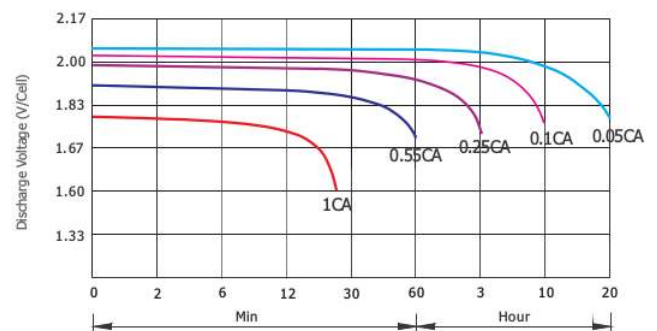
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR   | 3HR  | 5HR  | 10HR |
|------------|-------|-------|-------|-------|------|------|------|
| 1.90 V     | 1230W | 1200W | 1128W | 959W  | 702W | 523W | 312W |
| 1.85 V     | 1866W | 1716W | 1489W | 1189W | 815W | 593W | 338W |
| 1.80 V     | 2371W | 2160W | 1758W | 1411W | 884W | 606W | 344W |
| 1.75 V     | 2472W | 2335W | 2032W | 1515W | 896W | 609W | 350W |
| 1.70 V     | 2653W | 2529W | 2202W | 1580W | 901W | 613W | 354W |

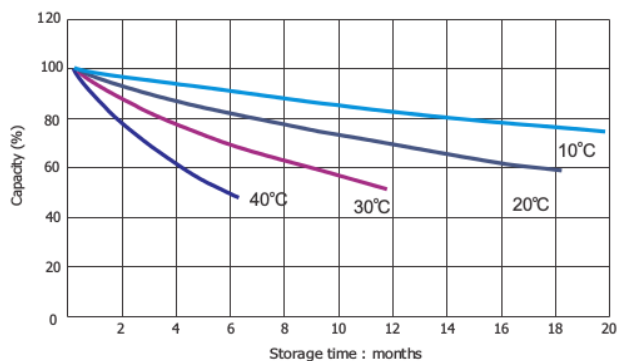
CHARGE CHARACTERISTICS



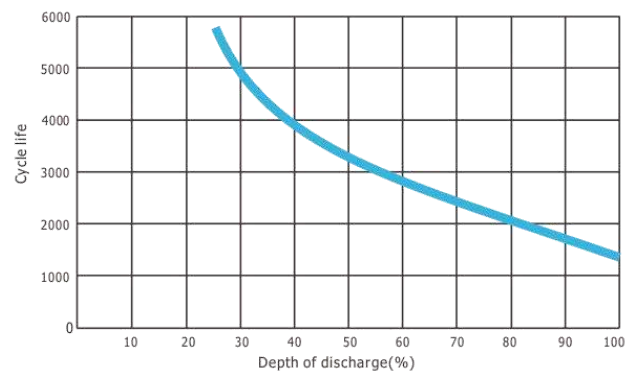
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 1800 Ah (C10)                                                                |
| Energy                           | 3600 Wh                                                                      |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.25-2.29V (-3mV/°C/cell) |
| Max. Charge Current              | 400 A                                                                        |
| Max. Discharge Current           | 2900 A                                                                       |
| Internal Resistance              | 0.23 mΩ                                                                      |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                           |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                         |

## CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV2-1800** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

**Length:** 399 mm

**Width:** 212 mm

**Height:** 772 mm

**Total Height:** 807 mm

**Weight:** 125 kg



### 2. TERMINAL CONFIGURATION (F10)

**Terminals:** Ensure your system's connectors match the F10 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 2.35-2.40V (-5mV/°C/cell)

Float use: 2.25-2.29V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 400 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV2-1500** (2 V · 1500 Ah) · **ROV2-2000** (2 V · 2000 Ah) · [See all ROV series models](#)

**Specialized Technical Support**  
<https://rekoser.com> | +34 958 04 29 73

## The best of lead. Maintenance-free with extreme service life.

The ROV2-2000 is a 2 V, 2000 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 399 × 212 × 772 mm and weighs 144.6 kg, with F10 terminals. It stores 4 kWh and delivers up to 3000 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKV2-2000**.



### MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 2000 Ah (C10)      |
| Energy          | 4000 Wh            |
| Weight          | 144.6 kg           |
| Terminal        | F10                |
| Dimensions      | 399 × 212 × 772 mm |

**20**  
YEARS

### LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

### WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

### MAIN APPLICATIONS



SOLAR/WIND ENERGY SYSTEMS



ELECTRICAL SUBSTATIONS



TELECOMMUNICATIONS AND BASE STATIONS



RAILWAY SIGNALING AND INFRASTRUCTURE



MARITIME



UPS AND DATA CENTERS

### QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

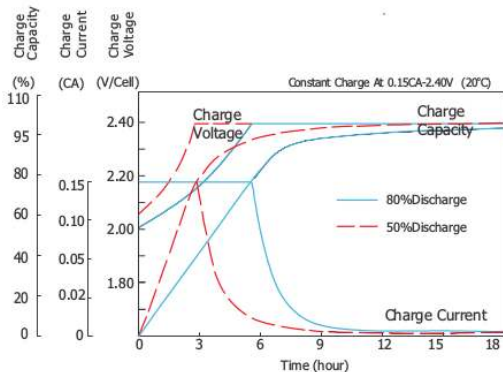
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR |
|------------|-------|-------|-------|------|------|------|------|
| 1.90 V     | 708A  | 688A  | 643A  | 543A | 392A | 290A | 172A |
| 1.85 V     | 1110A | 1016A | 875A  | 692A | 465A | 335A | 188A |
| 1.80 V     | 1447A | 1312A | 1058A | 841A | 515A | 350A | 200A |
| 1.75 V     | 1534A | 1441A | 1242A | 915A | 529A | 357A | 202A |
| 1.70 V     | 1669A | 1583A | 1364A | 967A | 539A | 363A | 206A |

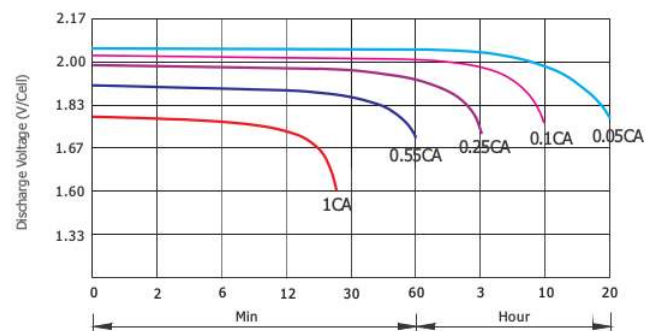
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR  | 10HR |
|------------|-------|-------|-------|-------|-------|------|------|
| 1.90 V     | 1367W | 1333W | 1253W | 1066W | 780W  | 581W | 347W |
| 1.85 V     | 2073W | 1907W | 1654W | 1321W | 906W  | 659W | 375W |
| 1.80 V     | 2634W | 2400W | 1953W | 1568W | 982W  | 673W | 382W |
| 1.75 V     | 2747W | 2594W | 2258W | 1683W | 994W  | 677W | 389W |
| 1.70 V     | 2948W | 2810W | 2447W | 1755W | 1001W | 681W | 393W |

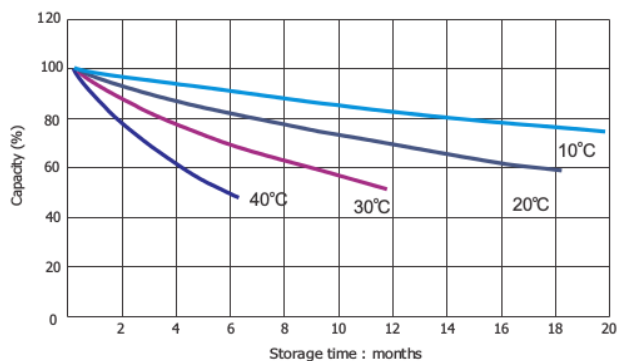
CHARGE CHARACTERISTICS



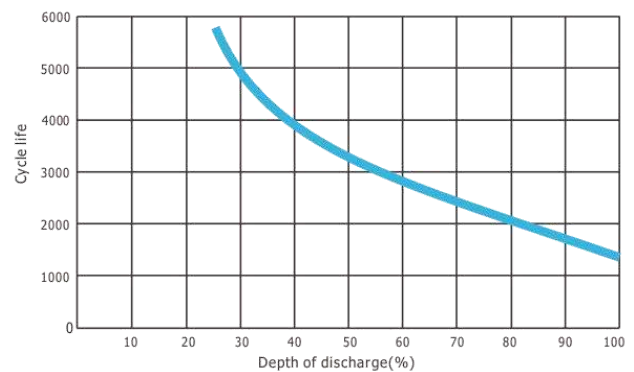
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 2000 Ah (C10), 2160 Ah (C20)                                                 |
| Energy                           | 4000 Wh                                                                      |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.25-2.29V (-3mV/°C/cell) |
| Max. Charge Current              | 400 A                                                                        |
| Max. Discharge Current           | 3000 A                                                                       |
| Internal Resistance              | 0.31 mΩ                                                                      |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                           |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                         |

## CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV2-2000** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

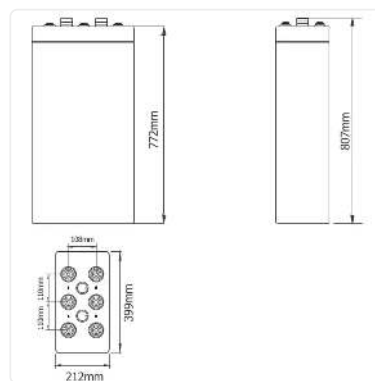
**Length:** 399 mm

**Width:** 212 mm

**Height:** 772 mm

**Total Height:** 807 mm

**Weight:** 144.6 kg



### 2. TERMINAL CONFIGURATION (F10)

**Terminals:** Ensure your system's connectors match the F10 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 2.35-2.40V (-5mV/°C/cell)

Float use: 2.25-2.29V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 400 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV2-1800** (2 V · 1800 Ah) · **ROV2-2500** (2 V · 2500 Ah) · [See all ROV series models](#)

**Specialized Technical Support**

<https://rekoser.com> | +34 958 04 29 73

## The best of lead. Maintenance-free with extreme service life.

The ROV2-2500 is a 2 V, 2500 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 487 × 212 × 772 mm and weighs 174 kg, with F10 terminals. It stores 5 kWh and delivers up to 4000 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly RKV2-2500.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 2500 Ah (C10)      |
| Energy          | 5000 Wh            |
| Weight          | 174 kg             |
| Terminal        | F10                |
| Dimensions      | 487 × 212 × 772 mm |

## MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

**20**  
YEARS

### LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

### WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

## MAIN APPLICATIONS



SOLAR/WIND ENERGY  
SYSTEMS



ELECTRICAL SUBSTATIONS



TELECOMMUNICATIONS  
AND BASE STATIONS



RAILWAY SIGNALING AND  
INFRASTRUCTURE



MARITIME



UPS AND DATA CENTERS

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

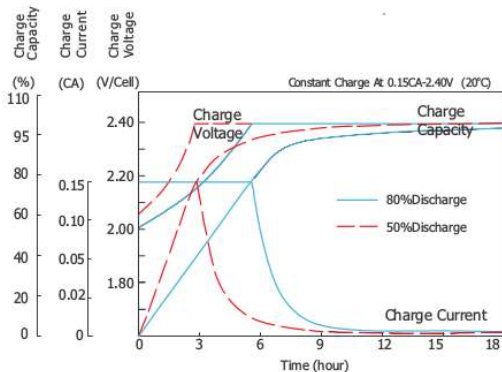
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR   | 3HR  | 5HR  | 10HR |
|------------|-------|-------|-------|-------|------|------|------|
| 1.90 V     | 885A  | 860A  | 804A  | 679A  | 490A | 363A | 214A |
| 1.85 V     | 1387A | 1271A | 1094A | 865A  | 581A | 419A | 236A |
| 1.80 V     | 1809A | 1641A | 1323A | 1051A | 644A | 437A | 250A |
| 1.75 V     | 1918A | 1801A | 1552A | 1144A | 662A | 446A | 252A |
| 1.70 V     | 2087A | 1978A | 1705A | 1208A | 674A | 453A | 257A |

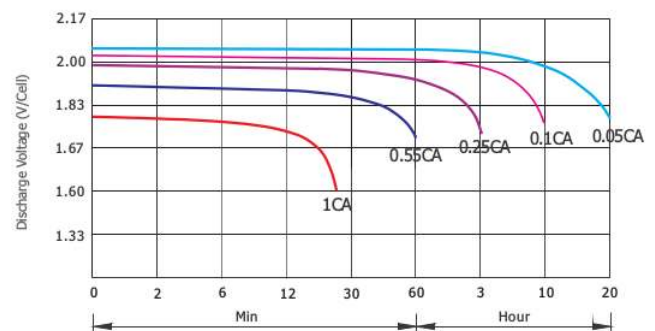
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR  | 10HR |
|------------|-------|-------|-------|-------|-------|------|------|
| 1.90 V     | 1709W | 1666W | 1566W | 1332W | 976W  | 726W | 433W |
| 1.85 V     | 2591W | 2384W | 2067W | 1651W | 1132W | 824W | 468W |
| 1.80 V     | 3292W | 3000W | 2441W | 1960W | 1227W | 841W | 477W |
| 1.75 V     | 3434W | 3242W | 2823W | 2103W | 1242W | 846W | 486W |
| 1.70 V     | 3685W | 3512W | 3059W | 2193W | 1252W | 852W | 492W |

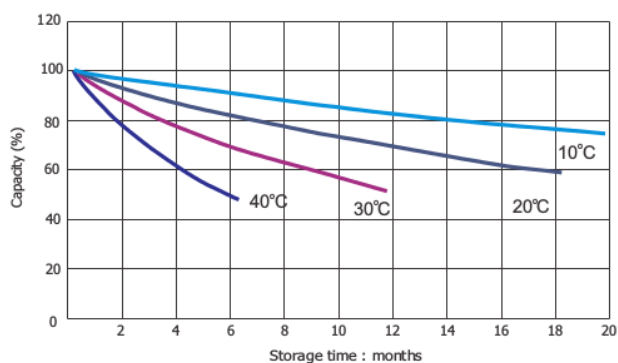
CHARGE CHARACTERISTICS



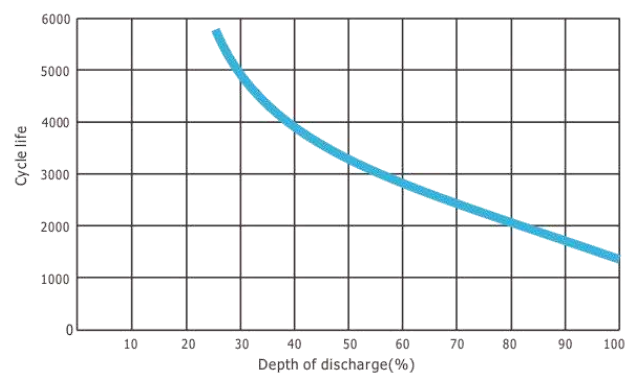
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 2500 Ah (C10)                                                                |
| Energy                           | 5000 Wh                                                                      |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.25-2.29V (-3mV/°C/cell) |
| Max. Charge Current              | 500 A                                                                        |
| Max. Discharge Current           | 4000 A                                                                       |
| Internal Resistance              | 0.2 mΩ                                                                       |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                           |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                         |

## CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV2-2500** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

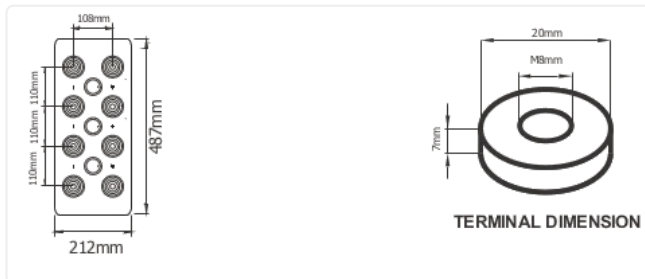
**Length:** 487 mm

**Width:** 212 mm

**Height:** 772 mm

**Total Height:** 807 mm

**Weight:** 174 kg



### 2. TERMINAL CONFIGURATION (F10)

**Terminals:** Ensure your system's connectors match the F10 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 2.35-2.40V (-5mV/°C/cell)

Float use: 2.25-2.29V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 500 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV2-2000** (2 V · 2000 Ah) · **ROV2-3000** (2 V · 3000 Ah) · [See all ROV series models](#)

**Specialized Technical Support**  
<https://rekoser.com> | +34 958 04 29 73

## The best of lead. Maintenance-free with extreme service life.

The ROV2-3000 is a 2 V, 3000 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 576 × 212 × 772 mm and weighs 210 kg, with F10 terminals. It stores 6 kWh and delivers up to 4000 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKV2-3000**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 3000 Ah (C10)      |
| Energy          | 6000 Wh            |
| Weight          | 210 kg             |
| Terminal        | F10                |
| Dimensions      | 576 × 212 × 772 mm |

## MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

**20**  
YEARS

### LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

### WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS AND BASE STATIONS**



**RAILWAY SIGNALING AND INFRASTRUCTURE**



**MARITIME**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

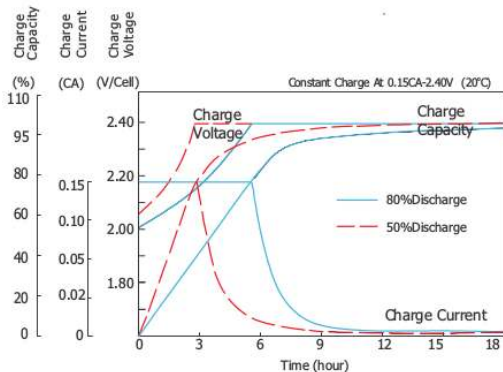
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR   | 3HR  | 5HR  | 10HR |
|------------|-------|-------|-------|-------|------|------|------|
| 1.90 V     | 1062A | 1033A | 965A  | 815A  | 588A | 435A | 257A |
| 1.85 V     | 1665A | 1525A | 1312A | 1038A | 697A | 503A | 283A |
| 1.80 V     | 2171A | 1969A | 1587A | 1261A | 772A | 525A | 300A |
| 1.75 V     | 2302A | 2162A | 1862A | 1373A | 794A | 535A | 303A |
| 1.70 V     | 2504A | 2374A | 2046A | 1450A | 809A | 544A | 309A |

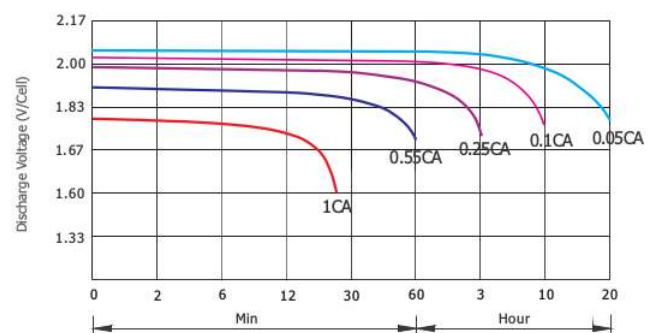
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR |
|------------|-------|-------|-------|-------|-------|-------|------|
| 1.90 V     | 2051W | 1999W | 1879W | 1599W | 1171W | 872W  | 520W |
| 1.85 V     | 3110W | 2860W | 2481W | 1981W | 1358W | 989W  | 560W |
| 1.80 V     | 3950W | 3600W | 2929W | 2352W | 1473W | 1010W | 573W |
| 1.75 V     | 4121W | 3891W | 3387W | 2524W | 1491W | 1016W | 583W |
| 1.70 V     | 4422W | 4214W | 3670W | 2632W | 1502W | 1022W | 590W |

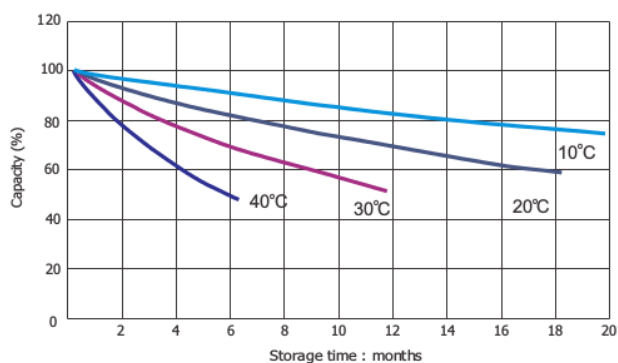
CHARGE CHARACTERISTICS



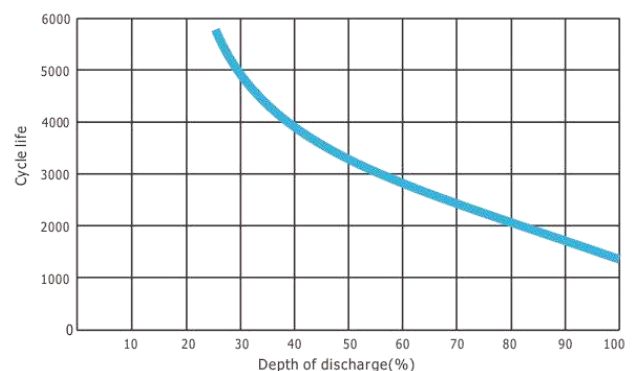
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 3000 Ah (C10)                                                                |
| Energy                           | 6000 Wh                                                                      |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.25-2.29V (-3mV/°C/cell) |
| Max. Charge Current              | 600 A                                                                        |
| Max. Discharge Current           | 4000 A                                                                       |
| Internal Resistance              | 0.31 mΩ                                                                      |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                           |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                         |

## CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV2-3000** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

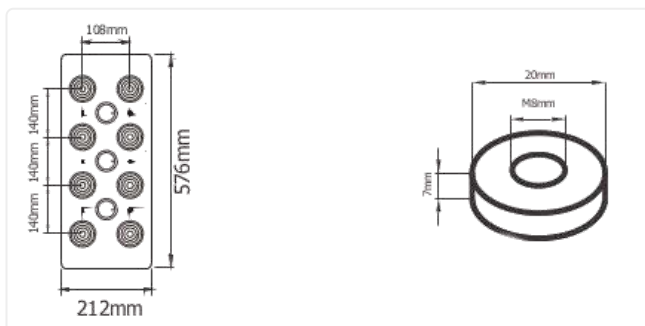
**Length:** 576 mm

**Width:** 212 mm

**Height:** 772 mm

**Total Height:** 807 mm

**Weight:** 210 kg



### 2. TERMINAL CONFIGURATION (F10)

**Terminals:** Ensure your system's connectors match the F10 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 2.35-2.40V (-5mV/°C/cell)

Float use: 2.25-2.29V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 600 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV2-2500** (2 V · 2500 Ah) · **ROV2-3500** (2 V · 3500 Ah) · See all ROV series models

**Specialized Technical Support**  
<https://rekoser.com> | +34 958 04 29 73

## The best of lead. Maintenance-free with extreme service life.

The ROV2-3500 is a 2 V, 3500 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 576 × 212 × 772 mm and weighs 215 kg, with F10 terminals. It stores 7 kWh and delivers up to 4000 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKV2-3500**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 3500 Ah (C10)      |
| Energy          | 7000 Wh            |
| Weight          | 215 kg             |
| Terminal        | F10                |
| Dimensions      | 576 × 212 × 772 mm |

## MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

**20**  
YEARS

**LONG LIFE DESIGN**

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

**WARRANTY**

\* Subject to charge and temperature parameters stipulated in this datasheet.

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS AND BASE STATIONS**



**RAILWAY SIGNALING AND INFRASTRUCTURE**



**MARITIME**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

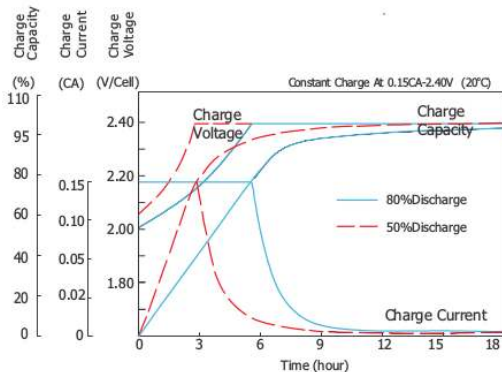
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR   | 3HR  | 5HR  | 10HR |
|------------|-------|-------|-------|-------|------|------|------|
| 1.90 V     | 1239A | 1205A | 1126A | 951A  | 686A | 507A | 300A |
| 1.85 V     | 1942A | 1779A | 1531A | 1008A | 813A | 587A | 330A |
| 1.80 V     | 2533A | 2297A | 1851A | 1471A | 901A | 612A | 350A |
| 1.75 V     | 2686A | 2522A | 2172A | 1602A | 926A | 624A | 353A |
| 1.70 V     | 2921A | 2770A | 2387A | 1692A | 944A | 635A | 360A |

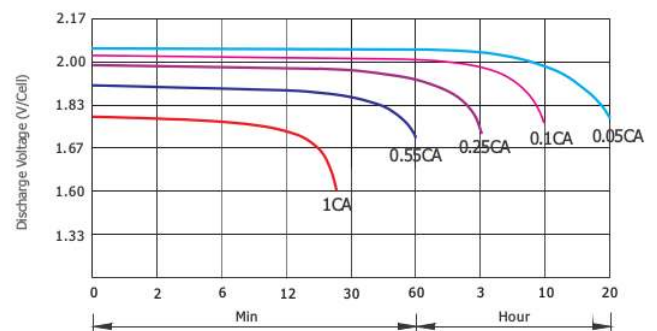
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR |
|------------|-------|-------|-------|-------|-------|-------|------|
| 1.90 V     | 2393W | 2332W | 2192W | 1865W | 1366W | 1017W | 607W |
| 1.85 V     | 3628W | 3336W | 2894W | 2311W | 1584W | 1154W | 636W |
| 1.80 V     | 4608W | 4200W | 3417W | 2744W | 1718W | 1178W | 668W |
| 1.75 V     | 4808W | 4539W | 3951W | 2944W | 1739W | 1185W | 680W |
| 1.70 V     | 5159W | 4916W | 4281W | 3070W | 1752W | 1192W | 688W |

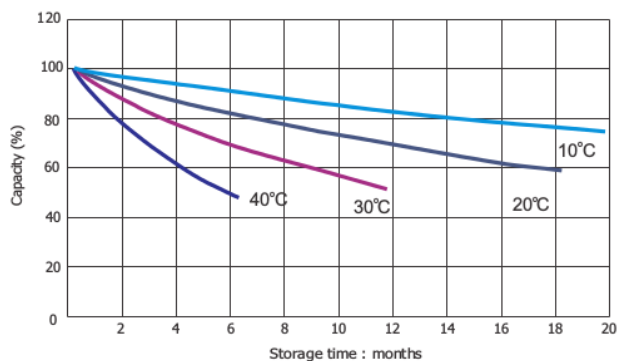
CHARGE CHARACTERISTICS



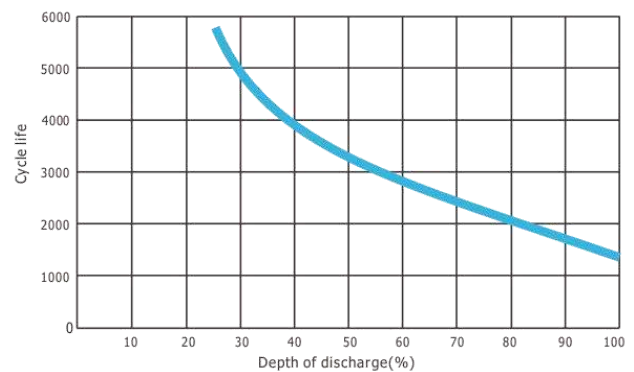
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 3500 Ah (C10)                                                                |
| Energy                           | 7000 Wh                                                                      |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.25-2.29V (-3mV/°C/cell) |
| Max. Charge Current              | 600 A                                                                        |
| Max. Discharge Current           | 4000 A                                                                       |
| Internal Resistance              | 0.31 mΩ                                                                      |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                           |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                         |

## CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV2-3500** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

**Length:** 576 mm

**Width:** 212 mm

**Height:** 772 mm

**Total Height:** 807 mm

**Weight:** 215 kg

### 2. TERMINAL CONFIGURATION (F10)

**Terminals:** Ensure your system's connectors match the F10 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 2.35-2.40V (-5mV/°C/cell)

Float use: 2.25-2.29V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 600 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV2-3000** (2 V · 3000 Ah) · See all ROV series models

Specialized Technical Support

<https://rekoser.com> | +34 958 04 29 73

## The best of lead. Maintenance-free with extreme service life.

The ROV6-250 is a 6 V, 250 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 295 × 178 × 408 mm and weighs 46.5 kg, with F10 terminals. It stores 1.5 kWh and delivers up to 1250 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKV6-250**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 6 V                |
| Capacity (25°C) | 250 Ah (C10)       |
| Energy          | 1500 Wh            |
| Weight          | 46.5 kg            |
| Terminal        | F10                |
| Dimensions      | 295 × 178 × 408 mm |

## MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

**20**  
YEARS

### LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

### WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS AND BASE STATIONS**



**RAILWAY SIGNALING AND INFRASTRUCTURE**



**MARITIME**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

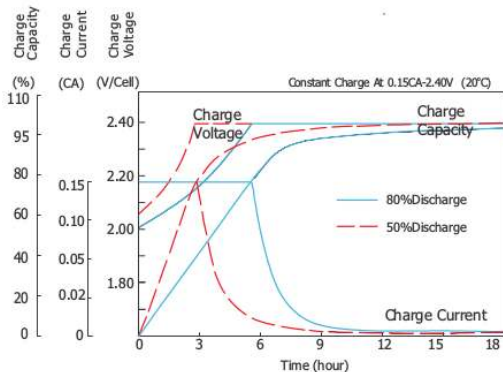
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|-------|------|-------|-------|-------|-------|
| 5.40 V     | 185A  | 116A | 60.1A | 43.1A | 25A   | 13.2A |
| 5.25 V     | 192A  | 125A | 62A   | 44.5A | 25.1A | 13.3A |
| 5.10 V     | 197A  | 127A | 62.3A | 44.7A | 25.3A | 13.3A |
| 4.95 V     | 204A  | 131A | 62.8A | 45.1A | 25.3A | 13.5A |
| 4.80 V     | 207A  | 132A | 63.2A | 45.3A | 25.5A | 13.5A |

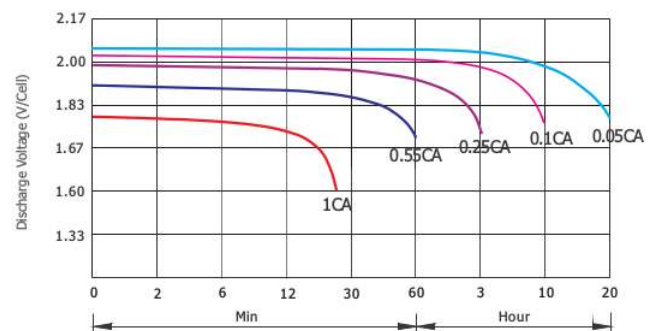
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 30MIN | 1HR  | 3HR  | 5HR   | 10HR  | 20HR  |
|------------|-------|------|------|-------|-------|-------|
| 5.40 V     | 346W  | 230W | 117W | 85W   | 49.7W | 26.5W |
| 5.25 V     | 360W  | 273W | 121W | 87.6W | 50W   | 26.6W |
| 5.10 V     | 368W  | 242W | 122W | 88.2W | 50.3W | 26.8W |
| 4.95 V     | 380W  | 248W | 123W | 88.8W | 50.5W | 26.8W |
| 4.80 V     | 387W  | 252W | 124W | 89.3W | 50.6W | 27W   |

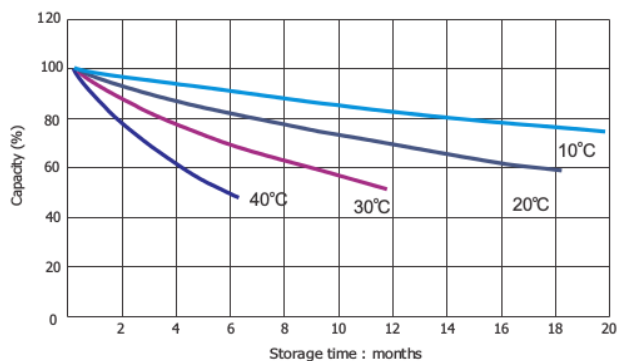
CHARGE CHARACTERISTICS



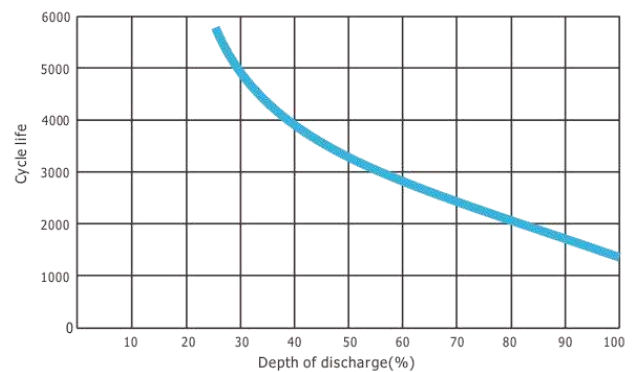
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 6 V                                                                          |
| Capacity (25°C)                  | 250 Ah (C10)                                                                 |
| Energy                           | 1500 Wh                                                                      |
| Cell number                      | 3                                                                            |
| Charge Voltage (25°C)            | Cycle use: 7.05-7.20V (-5mV/°C/cell)<br>Float use: 6.75-6.90V (-3mV/°C/cell) |
| Max. Charge Current              | 60 A                                                                         |
| Max. Discharge Current           | 1250 A                                                                       |
| Internal Resistance              | 4.7 mΩ                                                                       |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                           |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                         |

## CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV6-250** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

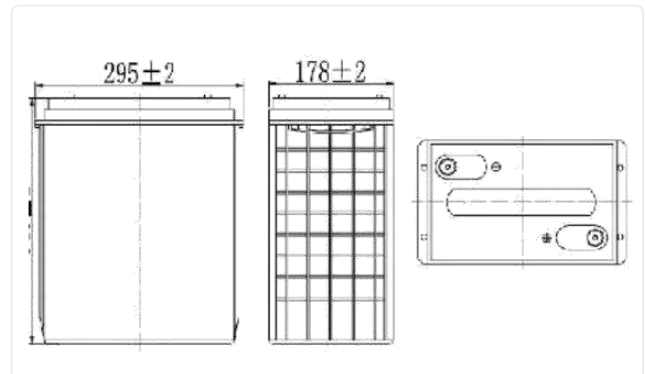
**Length:** 295 mm

**Width:** 178 mm

**Height:** 408 mm

**Total Height:** 408 mm

**Weight:** 46.5 kg



### 2. TERMINAL CONFIGURATION (F10)

**Terminals:** Ensure your system's connectors match the F10 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 7.05-7.20V (-5mV/°C/cell)

Float use: 6.75-6.90V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 60 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV6-300** (6 V · 300 Ah) · [See all ROV series models](#)

**Specialized Technical Support**  
<https://rekoser.com> | +34 958 04 29 73

## The best of lead. Maintenance-free with extreme service life.

The ROV6-300 is a 6 V, 300 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 295 × 178 × 405 mm and weighs 52.5 kg, with F10 terminals. It stores 1.8 kWh and delivers up to 1250 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKV6-300**.



## MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 6 V                |
| Capacity (25°C) | 300 Ah (C10)       |
| Energy          | 1800 Wh            |
| Weight          | 52.5 kg            |
| Terminal        | F10                |
| Dimensions      | 295 × 178 × 405 mm |

**20**  
YEARS

## LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

## WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

## MAIN APPLICATIONS



SOLAR/WIND ENERGY SYSTEMS



ELECTRICAL SUBSTATIONS



TELECOMMUNICATIONS AND BASE STATIONS



RAILWAY SIGNALING AND INFRASTRUCTURE



MARITIME



UPS AND DATA CENTERS

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

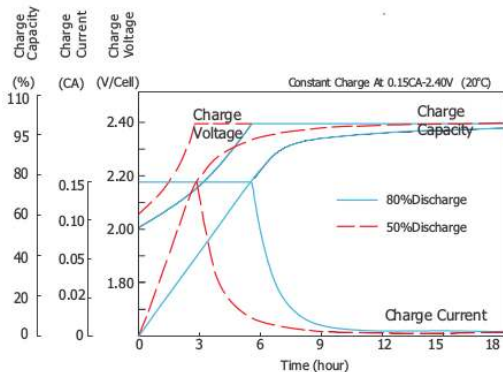
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|-------|------|-------|-------|-------|-------|
| 5.40 V     | 222A  | 145A | 72.2A | 51.8A | 30A   | 16.2A |
| 5.25 V     | 231A  | 150A | 74.4A | 53.4A | 30.2A | 16.3A |
| 5.10 V     | 237A  | 153A | 74.9A | 53.8A | 30.4A | 16.4A |
| 4.95 V     | 244A  | 157A | 75.4A | 54.1A | 30.5A | 16.5A |
| 4.80 V     | 249A  | 159A | 75.9A | 54.5A | 30.5A | 16.5A |

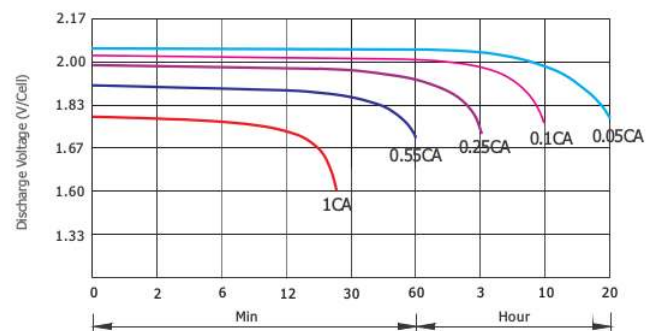
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 30MIN | 1HR  | 3HR  | 5HR  | 10HR  | 20HR  |
|------------|-------|------|------|------|-------|-------|
| 5.40 V     | 516W  | 276W | 141W | 102W | 59.7W | 31.2W |
| 5.25 V     | 432W  | 285W | 146W | 105W | 60W   | 31.4W |
| 5.10 V     | 442W  | 291W | 147W | 106W | 60.5W | 31.6W |
| 4.95 V     | 456W  | 298W | 148W | 107W | 60.7W | 31.8W |
| 4.80 V     | 466W  | 303W | 149W | 107W | 60.8W | 32W   |

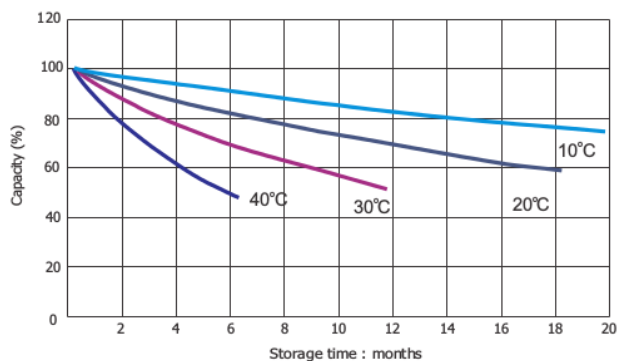
CHARGE CHARACTERISTICS



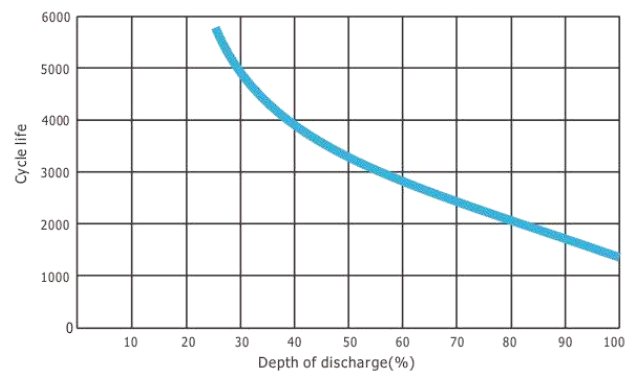
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 6 V                                                                          |
| Capacity (25°C)                  | 300 Ah (C10)                                                                 |
| Energy                           | 1800 Wh                                                                      |
| Cell number                      | 3                                                                            |
| Charge Voltage (25°C)            | Cycle use: 7.05-7.20V (-5mV/°C/cell)<br>Float use: 6.75-6.90V (-3mV/°C/cell) |
| Max. Charge Current              | 60 A                                                                         |
| Max. Discharge Current           | 1250 A                                                                       |
| Internal Resistance              | 4.7 mΩ                                                                       |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                           |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                         |

## CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV6-300** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

**Length:** 295 mm

**Width:** 178 mm

**Height:** 405 mm

**Total Height:** 405 mm

**Weight:** 52.5 kg

### 2. TERMINAL CONFIGURATION (F10)

**Terminals:** Ensure your system's connectors match the F10 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 7.05-7.20V (-5mV/°C/cell)

Float use: 6.75-6.90V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 60 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV6-250** (6 V · 250 Ah) · [See all ROV series models](#)

**Specialized Technical Support**  
<https://rekoser.com> | +34 958 04 29 73

## The best of lead. Maintenance-free with extreme service life.

The ROV12-75 is a 12 V, 75 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 330 × 171 × 214 mm and weighs 30.5 kg, with F10 terminals. It stores 900 Wh and delivers up to 400 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKV12-75**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 75 Ah (C10)        |
| Energy          | 900 Wh             |
| Weight          | 30.5 kg            |
| Terminal        | F10                |
| Dimensions      | 330 × 171 × 214 mm |

## MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

**20**  
YEARS

### LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

### WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS AND BASE STATIONS**



**RAILWAY SIGNALING AND INFRASTRUCTURE**



**MARITIME**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

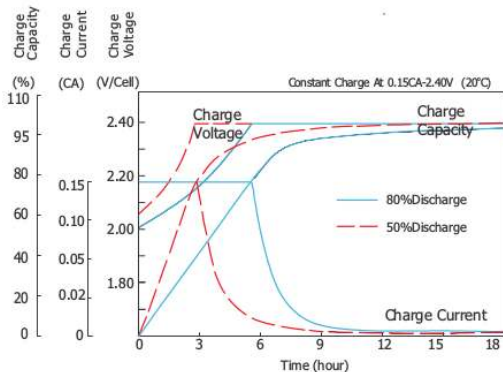
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 30MIN | 1HR   | 3HR   | 5HR   | 10HR       | 20HR  |
|------------|-------|-------|-------|-------|------------|-------|
| 11.1 V     | 58A   | 37.9A | 18.9A | 13.6A | 7.5A       | 3.96A |
| 10.8 V     | 62.4A | 40.8A | 19.8A | 14.6A | 8A         | 4.21A |
| 10.5 V     | 64.7A | 42.1A | 20A   | 15A   | 8.04 16.0A | 4.24A |
| 10.2 V     | 66.5A | 42.9A | 20.3A | 15.1A | 8.1A       | 4.27A |
| 9.9 V      | 68.5A | 44A   | 20.5A | 15.2A | 8.13A      | 4.28A |

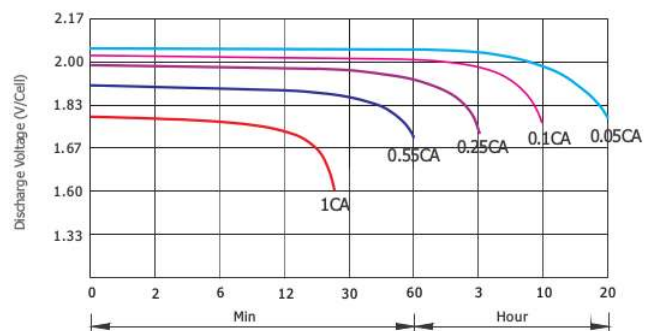
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|-------|-------|-------|-------|-------|-------|
| 11.1 V     | 110W  | 72.8W | 37.2W | 26.9W | 15W   | 7.92W |
| 10.8 V     | 117W  | 77.5W | 38.8W | 28.8W | 15.9W | 8.32W |
| 10.5 V     | 122W  | 79.5W | 39.1W | 29.5W | W     | 8.4W  |
| 10.2 V     | 124W  | 80.3W | 39.2W | 29.5W | 16W   | 8.4W  |
| 9.9 V      | 127W  | 81.9W | 39.3W | 29.6W | 16.1W | 8.45W |

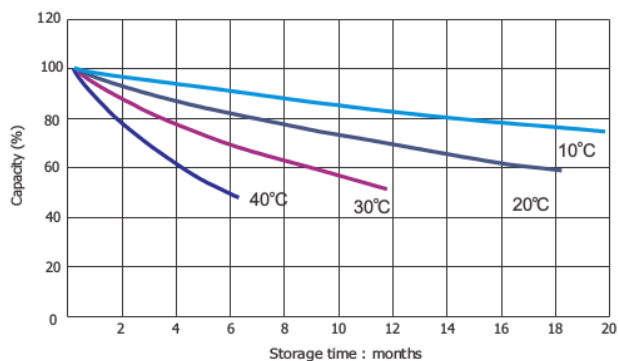
CHARGE CHARACTERISTICS



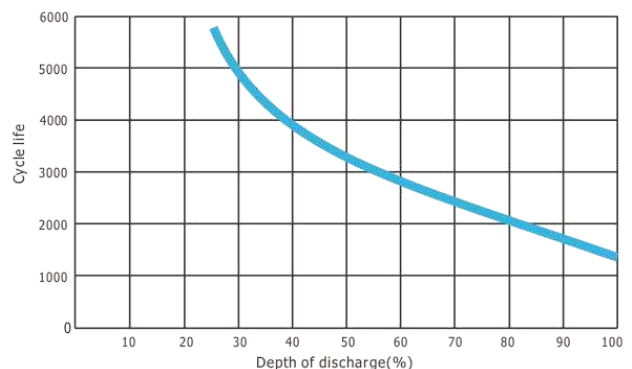
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



SPECIFICATIONS

|                                  |                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                               |
| Capacity (25°C)                  | 75 Ah (C10)                                                                        |
| Energy                           | 900 Wh                                                                             |
| Charge Voltage (25°C)            | Cycle use: 13.80-14.10V (-30mV/°C/cell)<br>Float use: 13.50-13.80V (-18mV/°C/cell) |
| Max. Charge Current              | 16 A                                                                               |
| Max. Discharge Current           | 400 A                                                                              |
| Internal Resistance              | 7.8 mΩ                                                                             |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                                 |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                               |

CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV12-75** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

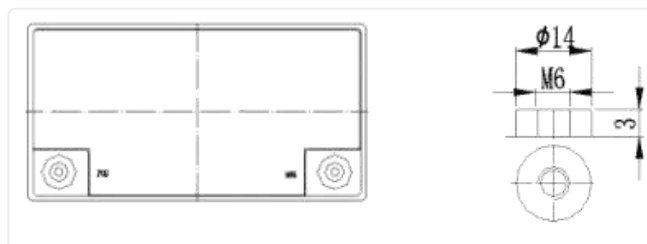
**Length:** 330 mm

**Width:** 171 mm

**Height:** 214 mm

**Total Height:** 214 mm

**Weight:** 30.5 kg



### 2. TERMINAL CONFIGURATION (F10)

**Terminals:** Ensure your system's connectors match the F10 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 13.80-14.10V (-30mV/°C/cell)

Float use: 13.50-13.80V (-18mV/°C/cell)

**Maximum Current:** Do not exceed 16 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV12-100** (12 V · 100 Ah) · [See all ROV series models](#)

**Specialized Technical Support**

<https://rekoser.com> | +34 958 04 29 73

## The best of lead. Maintenance-free with extreme service life.

The ROV12-100 is a 12 V, 100 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 409 × 176 × 223 mm and weighs 35 kg, with F10 terminals. It stores 1.2 kWh and delivers up to 625 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly RKV12-100.

### MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks



|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 100 Ah (C10)       |
| Energy          | 1200 Wh            |
| Weight          | 35 kg              |
| Terminal        | F10                |
| Dimensions      | 409 × 176 × 223 mm |

**20**  
YEARS

### LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

### WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

### MAIN APPLICATIONS



SOLAR/WIND ENERGY SYSTEMS



ELECTRICAL SUBSTATIONS



TELECOMMUNICATIONS AND BASE STATIONS



RAILWAY SIGNALING AND INFRASTRUCTURE



MARITIME



UPS AND DATA CENTERS

### QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

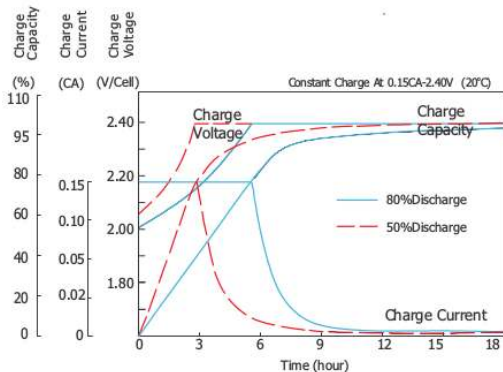
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10.8 V     | 102A | 101A  | 92.9A | 74.1A | 48.4A | 24.1A | 13.3A | 10A   | 5.3A  |
| 10.5 V     | 109A | 107A  | 98.1A | 76.9A | 50A   | 24.8A | 17.8A | 10.1A | 5.34A |
| 10.2 V     | 113A | 112A  | 102A  | 78.9A | 51A   | 25A   | 17.9A | 10.1A | 5.37A |
| 9.9 V      | 118A | 116A  | 105A  | 81.3A | 52.3A | 25.1A | 18A   | 10.2A | 5.38A |
| 9.6 V      | 122A | 120A  | 108A  | 83A   | 53.1A | 25.3A | 18.2A | 10.2A | 5.4A  |

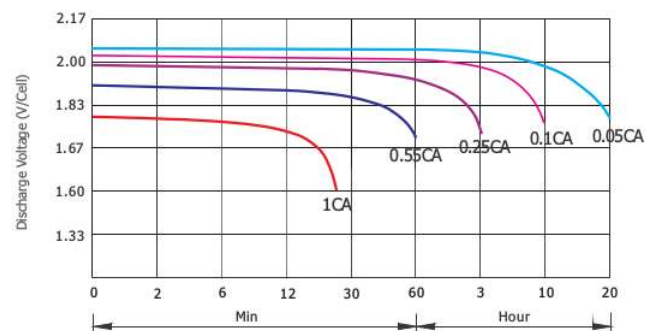
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10.8 V     | 179W | 181W  | 170W  | 139W  | 92W   | 47.1W | 34W   | 19.9W | 10.6W |
| 10.5 V     | 190W | 192W  | 179W  | 144W  | 94.9W | 48.6W | 35.1W | 20W   | 10.7W |
| 10.2 V     | 199W | 201W  | 186W  | 147W  | 96.9W | 48.9W | 35.3W | 20.2W | 10.7W |
| 9.9 V      | 207W | 210W  | 193W  | 152W  | 99.4W | 49.3W | 35.6W | 20.2W | 10.8W |
| 9.6 V      | 214W | 216W  | 198W  | 155W  | 101W  | 49.6W | 35.8W | 20.3W | 10.8W |

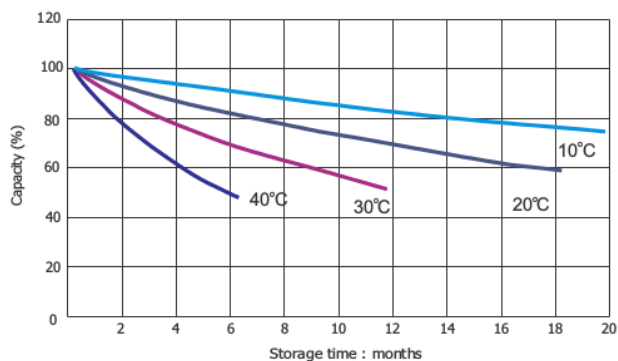
CHARGE CHARACTERISTICS



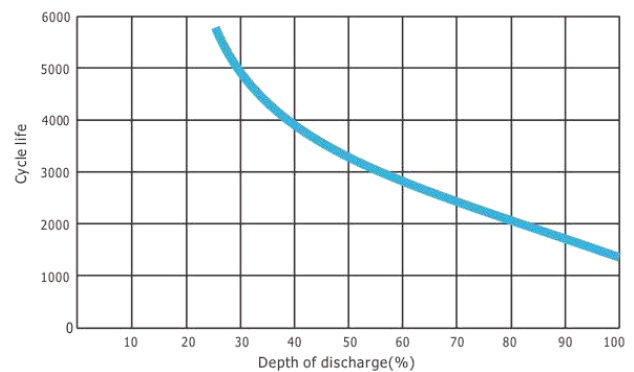
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                               |
| Capacity (25°C)                  | 100 Ah (C10)                                                                       |
| Energy                           | 1200 Wh                                                                            |
| Cell number                      | 6                                                                                  |
| Charge Voltage (25°C)            | Cycle use: 13.80-14.10V (-30mV/°C/cell)<br>Float use: 13.50-13.80V (-18mV/°C/cell) |
| Max. Charge Current              | 20 A                                                                               |
| Max. Discharge Current           | 625 A                                                                              |
| Internal Resistance              | 6.3 mΩ                                                                             |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                                 |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                               |

## CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV12-100** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

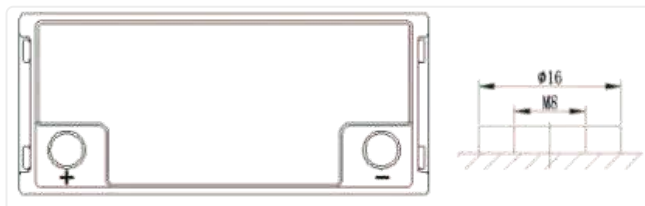
**Length:** 409 mm

**Width:** 176 mm

**Height:** 223 mm

**Total Height:** 223 mm

**Weight:** 35 kg



### 2. TERMINAL CONFIGURATION (F10)

**Terminals:** Ensure your system's connectors match the F10 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 13.80-14.10V (-30mV/°C/cell)

Float use: 13.50-13.80V (-18mV/°C/cell)

**Maximum Current:** Do not exceed 20 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV12-75** (12 V · 75 Ah) · **ROV12-150** (12 V · 150 Ah) · [See all ROV series models](#)

**Specialized Technical Support**

<https://rekoser.com> | +34 958 04 29 73

## The best of lead. Maintenance-free with extreme service life.

The ROV12-150 is a 12 V, 150 Ah (20-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 532 × 207 × 209 mm and weighs 58.5 kg, with F10 terminals. It stores 1.8 kWh and delivers up to 875 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKV12-150**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 150 Ah (C20)       |
| Energy          | 1800 Wh            |
| Weight          | 58.5 kg            |
| Terminal        | F10                |
| Dimensions      | 532 × 207 × 209 mm |

## MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

**20**  
YEARS

### LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

### WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS AND BASE STATIONS**



**RAILWAY SIGNALING AND INFRASTRUCTURE**



**MARITIME**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

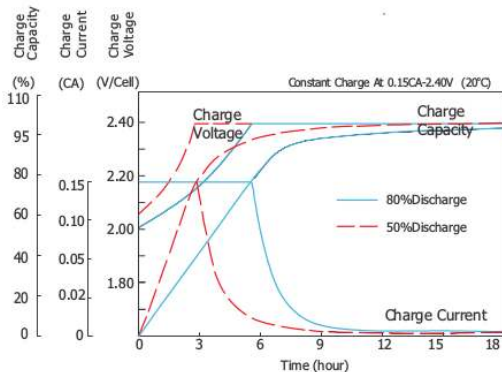
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10.8 V     | 151A  | 139A  | 111A  | 72.6A | 36.1A | 25.9A | 14.3A | 7.5A  |
| 10.5 V     | 160A  | 147A  | 115A  | 75A   | 37.2A | 26.7A | 14.3A | 7.55A |
| 10.2 V     | 167A  | 152A  | 118A  | 76.5A | 37.5A | 26.9A | 14.4A | 7.6A  |
| 9.9 V      | 175A  | 158A  | 122A  | 78.5A | 37.7A | 27.1A | 14.5A | 7.62A |
| 9.6 V      | 180A  | 162A  | 125A  | 79.7A | 37.9A | 27.2A | 14.5A | 7.64A |

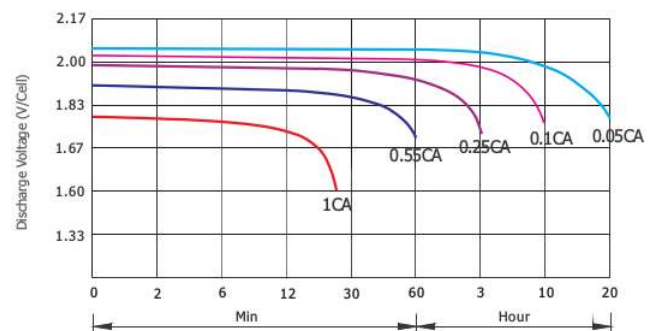
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|-------|-------|-------|------|-------|-------|-------|-------|
| 10.8 V     | 272W  | 255W  | 208W  | 138W | 70.7W | 51W   | 28.4W | 15W   |
| 10.5 V     | 288W  | 269W  | 216W  | 142W | 72.9W | 52.6W | 28.5W | 15.1W |
| 10.2 V     | 301W  | 279W  | 221W  | 145W | 73.4W | 53W   | 28.7W | 15.2W |
| 9.9 V      | 314W  | 289W  | 228W  | 149W | 73.9W | 53.3W | 28.8W | 15.2W |
| 9.6 V      | 324W  | 296W  | 233W  | 151W | 74.4W | 53.7W | 28.9W | 15.3W |

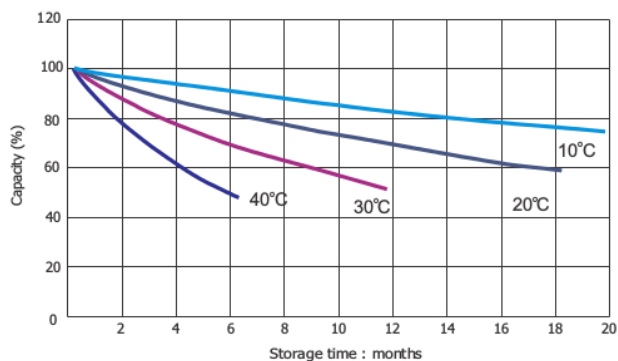
CHARGE CHARACTERISTICS



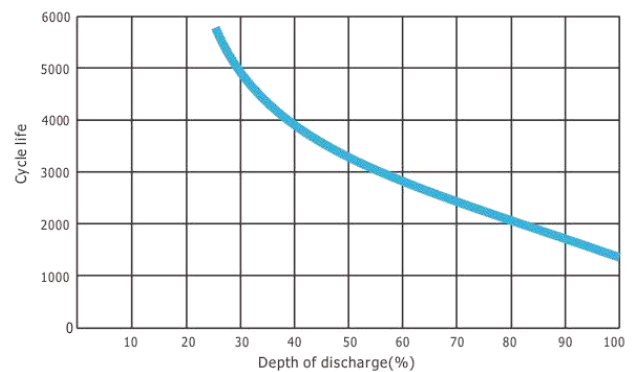
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



SPECIFICATIONS

|                                  |                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                               |
| Capacity (25°C)                  | 150 Ah (C20)                                                                       |
| Energy                           | 1800 Wh                                                                            |
| Cell number                      | 6                                                                                  |
| Charge Voltage (25°C)            | Cycle use: 13.80-14.10V (-30mV/°C/cell)<br>Float use: 13.50-13.80V (-18mV/°C/cell) |
| Max. Charge Current              | 28 A                                                                               |
| Max. Discharge Current           | 875 A                                                                              |
| Internal Resistance              | 5.2 mΩ                                                                             |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                                 |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                               |

CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV12-150** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

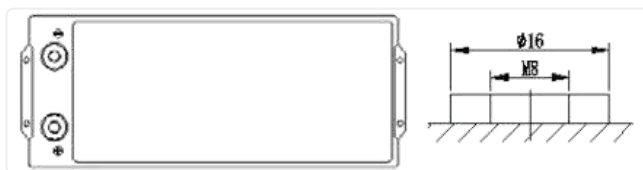
**Length:** 532 mm

**Width:** 207 mm

**Height:** 209 mm

**Total Height:** 209 mm

**Weight:** 58.5 kg



### 2. TERMINAL CONFIGURATION (F10)

**Terminals:** Ensure your system's connectors match the F10 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 13.80-14.10V (-30mV/°C/cell)

Float use: 13.50-13.80V (-18mV/°C/cell)

**Maximum Current:** Do not exceed 28 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV12-100** (12 V · 100 Ah) · **ROV12-200** (12 V · 200 Ah) · [See all ROV series models](#)

**Specialized Technical Support**

<https://rekoser.com> | +34 958 04 29 73

## The best of lead. Maintenance-free with extreme service life.

The ROV12-200 is a 12 V, 200 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 499 × 259 × 238 mm and weighs 73.5 kg, with IT-M8-CU-20-7 terminals. It stores 2.4 kWh and delivers up to 1000 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly RKV12-200.



### MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 200 Ah (C10)       |
| Energy          | 2400 Wh            |
| Weight          | 73.5 kg            |
| Terminal        | IT-M8-CU-20-7      |
| Dimensions      | 499 × 259 × 238 mm |

**20**  
YEARS

### LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

### WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

### MAIN APPLICATIONS



SOLAR/WIND ENERGY SYSTEMS



ELECTRICAL SUBSTATIONS



TELECOMMUNICATIONS AND BASE STATIONS



RAILWAY SIGNALING AND INFRASTRUCTURE



MARITIME



UPS AND DATA CENTERS

### QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

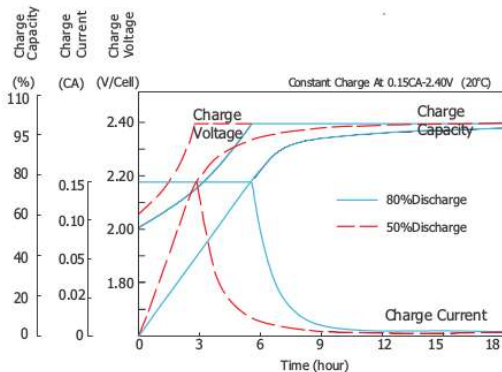
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|-------|-------|-------|-------|-------|-------|
| 11.1 V     | 138A  | 90.3A | 45.6A | 32.8A | 18.2A | 9.6A  |
| 10.8 V     | 148A  | 96.9A | 48.1A | 34.5A | 19A   | 10A   |
| 10.5 V     | 154A  | 99.9A | 49.6A | 35.6A | 19.1A | 10.1A |
| 10.2 V     | 158A  | 102A  | 49.9A | 35.8A | 19.2A | 10.1A |
| 9.9 V      | 163A  | 105A  | 50.3A | 36.1A | 19.3A | 10.2A |

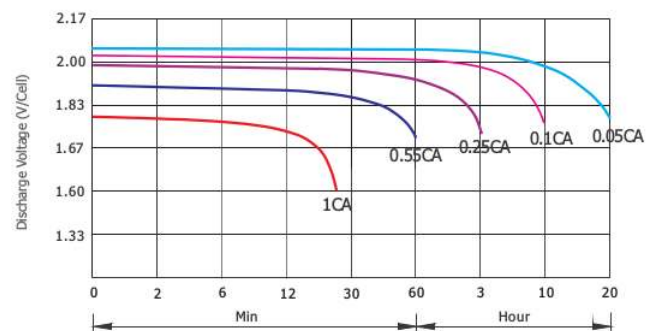
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|-------|------|-------|-------|-------|-------|
| 11.1 V     | 258W  | 172W | 89.4W | 64.5W | 36.3W | 19.2W |
| 10.8 V     | 277W  | 184W | 94.3W | 68W   | 37.8W | 20W   |
| 10.5 V     | 288W  | 190W | 97.2W | 71.1W | 38W   | 20.1W |
| 10.2 V     | 295W  | 194W | 97.9W | 70.6W | 38.3W | 20.3W |
| 9.9 V      | 304W  | 199W | 98.6W | 71.1W | 38.4W | 20.3W |

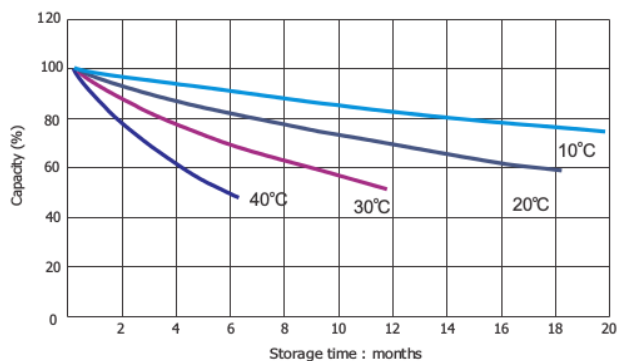
CHARGE CHARACTERISTICS



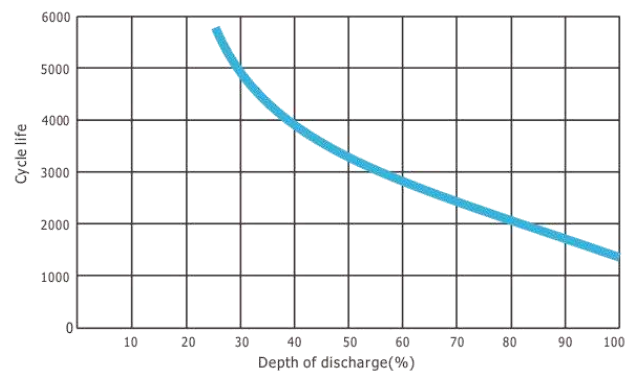
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                               |
| Capacity (25°C)                  | 200 Ah (C10)                                                                       |
| Energy                           | 2400 Wh                                                                            |
| Cell number                      | 6                                                                                  |
| Charge Voltage (25°C)            | Cycle use: 13.80-14.10V (-30mV/°C/cell)<br>Float use: 13.50-13.80V (-18mV/°C/cell) |
| Max. Charge Current              | 40 A                                                                               |
| Max. Discharge Current           | 1000 A                                                                             |
| Internal Resistance              | 3.6 mΩ                                                                             |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                                 |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                               |

## CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV12-200** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

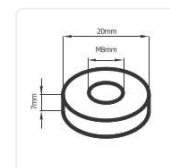
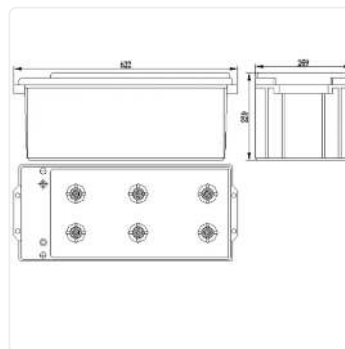
**Length:** 499 mm

**Width:** 259 mm

**Height:** 238 mm

**Total Height:** 238 mm

**Weight:** 73.5 kg



Terminal IT-M8-CU-20-7

### 2. TERMINAL CONFIGURATION (IT-M8-CU-20-7)

**Terminals:** Ensure your system's connectors match the IT-M8-CU-20-7 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 13.80-14.10V (-30mV/°C/cell)

Float use: 13.50-13.80V (-18mV/°C/cell)

**Maximum Current:** Do not exceed 40 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV12-150** (12 V · 150 Ah) · **ROV12-420M** (12 V · 420 Ah) · [See all ROV series models](#)

**Specialized Technical Support**

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## The best of lead. Maintenance-free with extreme service life.

The ROV12-420M is a 12 V, 420 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 145 × 1236 × 471 mm and weighs 186 kg, with F10 terminals. It stores 5.04 kWh and delivers up to 2100 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKV12-420M**.

|                 |                     |
|-----------------|---------------------|
| Nominal Voltage | 12 V                |
| Capacity (25°C) | 420 Ah (C10)        |
| Energy          | 5040 Wh             |
| Weight          | 186 kg              |
| Terminal        | F10                 |
| Dimensions      | 145 × 1236 × 471 mm |

## MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

**20**  
YEARS

### LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

### WARRANTY

\* Subject to charge and temperature parameters stipulated in this datasheet.

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS AND BASE STATIONS**



**RAILWAY SIGNALING AND INFRASTRUCTURE**



**MARITIME**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

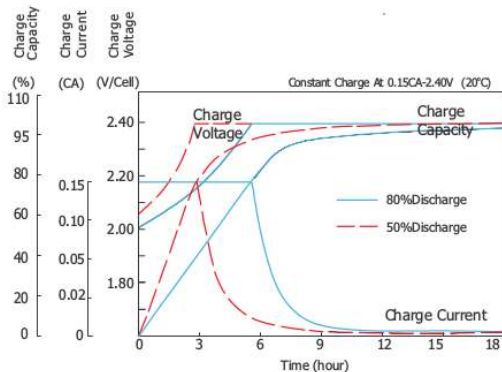
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR   | 10HR  |
|------------|-------|-------|-------|------|------|-------|-------|
| 11.40 V    | 154A  | 150A  | 140A  | 118A | 84A  | 62.2A | 36.8A |
| 11.10 V    | 241A  | 221A  | 190A  | 150A | 100A | 71.8A | 40.4A |
| 10.80 V    | 315A  | 286A  | 230A  | 182A | 110A | 75A   | 42A   |
| 10.50 V    | 334A  | 314A  | 270A  | 198A | 113A | 76.4A | 43.3A |
| 10.20 V    | 363A  | 344A  | 297A  | 209A | 116A | 77.7A | 44.1A |

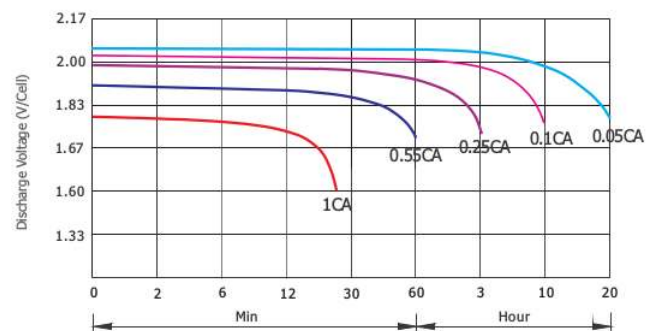
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR  | 10HR   |
|------------|-------|-------|-------|-------|-------|------|--------|
| 11.40 V    | 1782W | 1740W | 1638W | 1386W | 1002W | 750W | 445.8W |
| 11.10 V    | 2706W | 2490W | 1560W | 1716W | 1164W | 846W | 481.8W |
| 10.80 V    | 3438W | 3132W | 2550W | 2034W | 1260W | 864W | 490.8W |
| 10.50 V    | 3588W | 3384W | 2946W | 2184W | 1278W | 870W | 499.8W |
| 10.20 V    | 3852W | 3666W | 3192W | 2280W | 1290W | 876W | 505.8W |

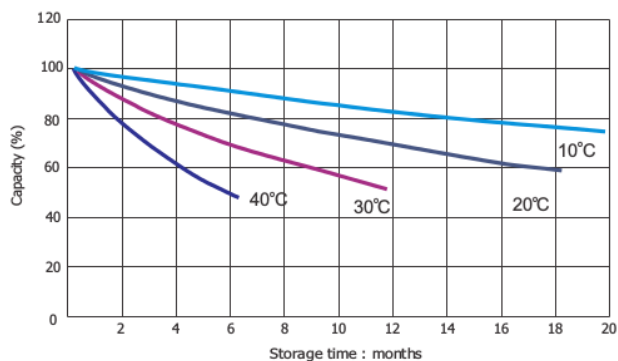
CHARGE CHARACTERISTICS



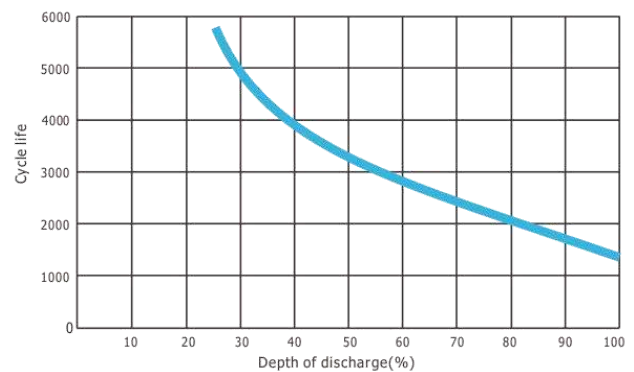
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                       |
|----------------------------------|-----------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                  |
| Capacity (25°C)                  | 420 Ah (C10)                                                          |
| Energy                           | 5040 Wh                                                               |
| Cell number                      | 6                                                                     |
| Charge Voltage (25°C)            | Cycle use: 14.1-14.4V (-30mV/°C)<br>Float use: 13.5-13.74V (-18mV/°C) |
| Max. Charge Current              | 84 A                                                                  |
| Max. Discharge Current           | 2100 A                                                                |
| Short-circuit current            | 3400A                                                                 |
| Internal Resistance              | 4.2 mΩ                                                                |
| Self Discharge                   | 2 % of capacity per month at 20 °C                                    |
| Capacity Affected by Temperature | 40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %                  |

## CONSTRUCTION

| Component    | Material                       |
|--------------|--------------------------------|
| Container    | ABS(UL94-V0 optional)          |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Immobilized Gel                |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER ROV12-420M** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

**Length:** 145 mm

**Width:** 1236 mm

**Height:** 471 mm

**Total Height:** 506 mm

**Weight:** 186 kg

### 2. TERMINAL CONFIGURATION (F10)

**Terminals:** Ensure your system's connectors match the F10 type to prevent electrical arcing.

**Polarity:** Check the positive and negative markings on the battery before connecting, to prevent short circuits.

### 3. CHARGE PARAMETERS

Cycle use: 14.1-14.4V (-30mV/°C)

Float use: 13.5-13.74V (-18mV/°C)

**Maximum Current:** Do not exceed 84 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Immobilised gel and tubular plate: sealed, no water topping up.

**Position:** Upright, or horizontal on a rack.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**ROV12-200** (12 V · 200 Ah) · See all ROV series models

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