

OPZS · SERIES ROS

# ROS Series – OPzS (Flooded)

The energy tank. 20+ years of proven service life.

The ROS Series is the true 'energy tank' of our portfolio, utilizing traditional vented tubular plate technology (OPzS) with liquid electrolyte. Classified under the EUROBAT 'Very Long Life' category, it is engineered for extreme durability, offering a proven design life of over 20 years. Complying with DIN 40736-1 standards, its transparent SAN container allows for easy visual inspection, making it the premier choice for large-scale solar, railway infrastructure, and power plants where reliability is non-negotiable.



|          |                            |            |             |
|----------|----------------------------|------------|-------------|
| MODELS   | NOMINAL VOLTAGE            | CAPACITY   | DESIGN LIFE |
| 20       | 2 V, 6 V, 12 V             | 50–3300 Ah | 20 years    |
| WARRANTY | EUROBAT                    |            |             |
| 2 years  | >12 Years (Very Long Life) |            |             |

## Key features

**Technology:** Vented tubular plates with liquid electrolyte

**Maintenance:** Periodic topping up with distilled water required

**Durability:** Over 20 years proven design life at 20°C

**Control:** Transparent container for easy electrolyte level monitoring

## 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

IEC 60896-21/22

YD/T1360

BS6290 part 4

DIN40742

 ROS 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      |
|---------------------------------------|-----------------|---------------|-------------|------------|-------------|--------------|---------------|
| <b>ROS2-100</b> (formerly RKS2-100)   | 2 V             | 100 Ah (C10)  | 103         | 206        | 354         | 8.5          | F10           |
| <b>ROS2-150</b> (formerly RKS2-150)   | 2 V             | 150 Ah (C10)  | 103         | 206        | 354         | 10.5         | F10           |
| <b>ROS2-200</b> (formerly RKS2-200)   | 2 V             | 200 Ah (C10)  | 103         | 206        | 354         | 13           | IT-M8-CU-20-7 |
| <b>ROS2-300</b> (formerly RKS2-300)   | 2 V             | 300 Ah (C10)  | 145         | 206        | 354         | 17.5         | F10           |
| <b>ROS2-350</b> (formerly RKS2-350)   | 2 V             | 350 Ah (C10)  | 124         | 206        | 470         | 20           | F10           |
| <b>ROS2-420</b> (formerly RKS2-420)   | 2 V             | 420 Ah (C10)  | 145         | 206        | 470         | 24.5         | M8            |
| <b>ROS2-500</b> (formerly RKS2-500)   | 2 V             | 500 Ah (C10)  | 166         | 206        | 470         | 26           | F10           |
| <b>ROS2-600</b> (formerly RKS2-600)   | 2 V             | 600 Ah (C10)  | 145         | 206        | 645         | 31           | F10           |
| <b>ROS2-800</b> (formerly RKS2-800)   | 2 V             | 800 Ah (C10)  | 191         | 210        | 645         | 44           | F10           |
| <b>ROS2-1200</b> (formerly RKS2-1200) | 2 V             | 1200 Ah (C10) | 275         | 210        | 645         | 61.5         | F10           |
| <b>ROS2-1500</b> (formerly RKS2-1500) | 2 V             | 1500 Ah (C10) | 275         | 210        | 795         | 75           | M8            |
| <b>ROS2-2000</b> (formerly RKS2-2000) | 2 V             | 2000 Ah (C10) | 399         | 210        | 771         | 108          | M8            |
| <b>ROS2-3000</b> (formerly RKS2-3000) | 2 V             | 3000 Ah (C10) | 576         | 212        | 771         | 157          | F10           |
| <b>ROS2-3300</b> (formerly RKS2-3300) | 2 V             | 3300 Ah (C10) | 576         | 212        | 771         | 162          | F10           |
| <b>ROS6-150</b>                       | 6 V             | 150 Ah (C10)  | 270         | 205        | 390         | 42           | IT-M8-CU-20-7 |
| <b>ROS6-260</b> (formerly RKS6-260)   | 6 V             | 260 Ah (C20)  | 260         | 280        | 248         | 22           | F10           |
| <b>ROS12-50</b> (formerly RKS12-50)   | 12 V            | 50 Ah (C10)   | 260         | 168        | 211         | 20           | F11           |
| <b>ROS12-100</b> (formerly RKS12-100) | 12 V            | 100 Ah (C10)  | 409         | 176        | 225         | 42.5         | F10           |
| <b>ROS12-150</b> (formerly RKS12-150) | 12 V            | 150 Ah (C10)  | 522         | 238        | 218         | 52.5         | F10           |

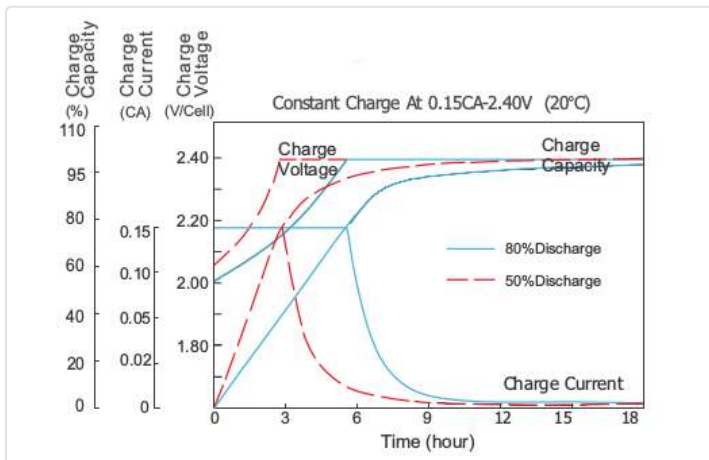
| Model                                 | Nominal Voltage | Capacity     | Length (mm) | Width (mm) | Height (mm) | Weight (kgs) | Terminal |
|---------------------------------------|-----------------|--------------|-------------|------------|-------------|--------------|----------|
| <b>ROS12-220</b> (formerly RKS12-220) | 12 V            | 220 Ah (C10) | 522         | 269        | 220         | 73.5         | F12      |

 Construction

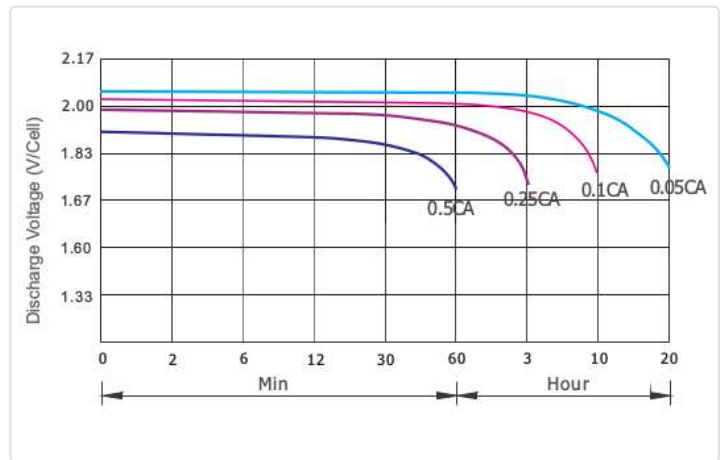
| Component    | Material                       |
|--------------|--------------------------------|
| Container    | SAN                            |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Sulphuric acid                 |
| Negative     | Lead                           |
| Positive     | Lead dioxide                   |
| Safety Valve | Rubber                         |
| Sealant      | Epoxy Resin                    |
| Separator    | Fibre Glass                    |
| Terminal     | Copper                         |

## Performance graphics

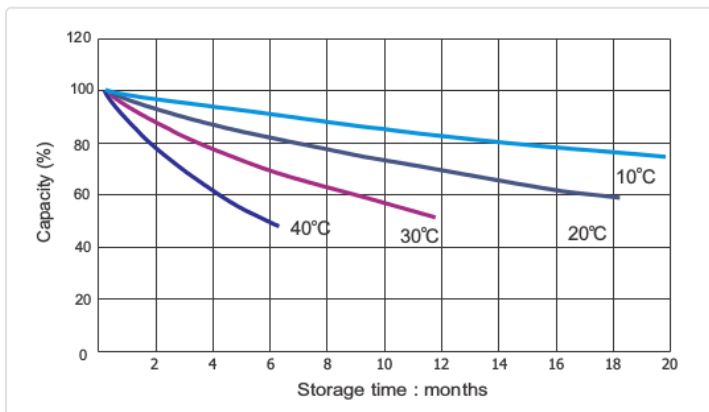
### CHARGE CHARACTERISTICS



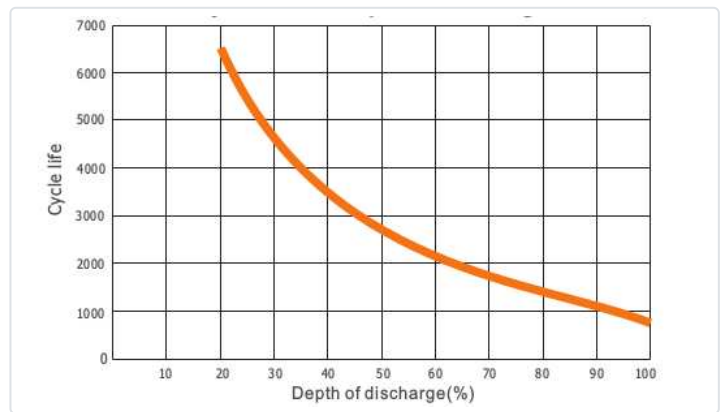
### DISCHARGE CHARACTERISTIC 250C



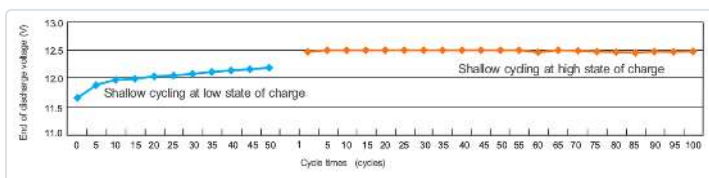
### SELF DISCHARGE CHARACTERISTICS



### FLOAT VOLTAGE VS FLOAT LIFE



### CYCLE DISCHARGE VOLTAGE CURVE (TEST STANDARD BS EN 61427:2005)



## The energy tank. 20+ years of proven service life.

The ROS2-100 is a 2 V, 100 Ah (10-hour rate) OPzS lead-acid battery from the Rekoser OPzS (Flooded) series. It measures 103 × 206 × 354 mm and weighs 8.5 kg, with F10 terminals. It stores 200 Wh and delivers up to 800 A. The energy tank. 20+ years of proven service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKS2-100**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 100 Ah (C10)       |
| Energy          | 200 Wh             |
| Weight          | 8.5 kg             |
| Terminal        | F10                |
| Dimensions      | 103 × 206 × 354 mm |

## MAIN ADVANTAGES

- ✓ **Technology:** Vented tubular plates with liquid electrolyte
- ✓ **Maintenance:** Periodic topping up with distilled water required
- ✓ **Durability:** Over 20 years proven design life at 20°C
- ✓ **Control:** Transparent container for easy electrolyte level monitoring

**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

IEC 60896-21/22

YD/T1360

BS6290 part 4

DIN40742

## GRAPHICS (25°C)

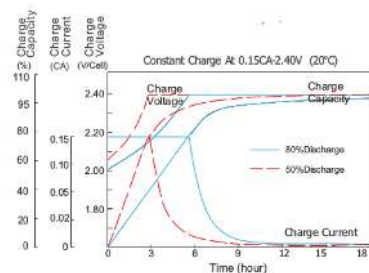
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  | 100HR |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.90 V     | 39.9A | 36.3A | 33A   | 32.3A | 29.9A | 18.9A | 13.9A | 9.1A  | 5.01A | 1.27A |
| 1.85 V     | 43.1A | 41.3A | 40.6A | 40.4A | 34A   | 20.9A | 16.3A | 9.5A  | 5.23A | 1.35A |
| 1.80 V     | 68.8A | 66A   | 64.6A | 55.6A | 43.7A | 25.6A | 17.3A | 10A   | 5.5A  | 1.4A  |
| 1.75 V     | 82.6A | 79.2A | 76.8A | 63.6A | 48.7A | 26.5A | 17.8A | 10.3A | 5.78A | 1.43A |

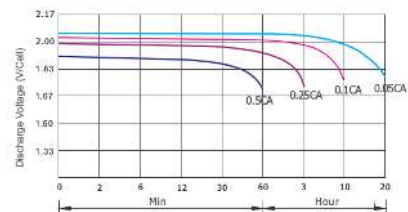
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  | 100HR |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.90 V     | 77.4W | 70.4W | 63.2W | 61.1W | 57.5W | 41.1W | 29.8W | 18.8W | 10.1W | 2.75W |
| 1.85 V     | 83.6W | 80.2W | 77.9W | 75.9W | 65.4W | 43W   | 33.1W | 20.4W | 11W   | 2.87W |
| 1.80 V     | 134W  | 128W  | 110W  | 102W  | 85.4W | 54.7W | 37.8W | 22W   | 11.4W | 2.94W |
| 1.75 V     | 160W  | 154W  | 113W  | 102W  | 86.4W | 57.9W | 39.5W | 22.9W | 11.7W | 2.96W |

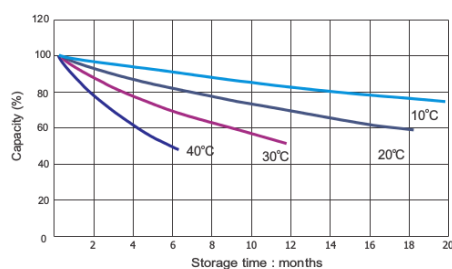
CHARGE CHARACTERISTICS



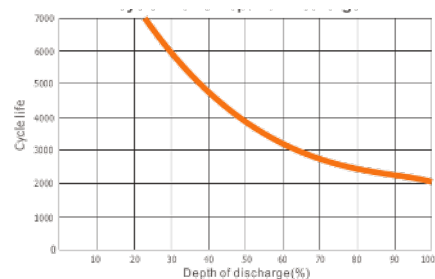
DISCHARGE CHARACTERISTIC 25°C



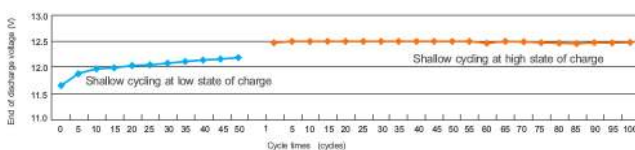
SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



CYCLE DISCHARGE VOLTAGE CURVE (Test standard BS EN 61427:2005)



## 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: 2.21-2.25V (-3mV/°C/cell) |
| Max. Charge Current              | 20 A                                                                         |
| Max. Discharge Current           | 800 A                                                                        |
| Internal Resistance              | 0.35 mΩ                                                                      |
| Self Discharge                   | 3 % 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    | SAN                            |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Sulphuric acid                 |
| 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 ROS2-100** 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:

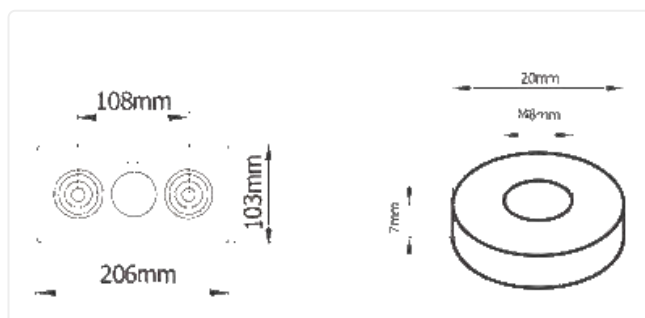
**Length:** 103 mm

**Width:** 206 mm

**Height:** 354 mm

**Total Height:** 409 mm

**Weight:** 8.5 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: 2.21-2.25V (-3mV/°C/cell)

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

### 4. SAFETY AND STORAGE

**Maintenance:** Check the electrolyte level and top up only with distilled or demineralised water.

**Position:** Always upright.

**Ventilation:** Install in a ventilated room: hydrogen is released during charging.

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

### NEARBY MODELS

**ROS2-150** (2 V · 150 Ah) · [See all ROS series models](#)

**Specialized Technical Support**

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

## The energy tank. 20+ years of proven service life.

The ROS2-150 is a 2 V, 150 Ah (10-hour rate) OPzS lead-acid battery from the Rekoser OPzS (Flooded) series. It measures 103 × 206 × 354 mm and weighs 10.5 kg, with F10 terminals. It stores 300 Wh and delivers up to 1000 A. The energy tank. 20+ years of proven service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKS2-150**.



## MAIN ADVANTAGES

- ✓ **Technology:** Vented tubular plates with liquid electrolyte
- ✓ **Maintenance:** Periodic topping up with distilled water required
- ✓ **Durability:** Over 20 years proven design life at 20°C
- ✓ **Control:** Transparent container for easy electrolyte level monitoring

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 150 Ah (C10)       |
| Energy          | 300 Wh             |
| Weight          | 10.5 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

IEC 60896-21/22

YD/T1360

BS6290 part 4

DIN40742

## GRAPHICS (25°C)

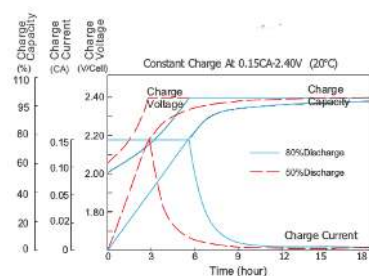
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  | 100HR |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.90 V     | 59.9A | 54.5A | 49.5A | 48.5A | 44.9A | 28.4A | 20.9A | 13.7A | 7.51A | 1.91A |
| 1.85 V     | 64.7A | 62A   | 60.9A | 60.6A | 51A   | 31.4A | 24.5A | 14.3A | 7.84A | 2.03A |
| 1.80 V     | 103A  | 99A   | 96.9A | 83.4A | 65.6A | 38.4A | 26A   | 15A   | 8.25A | 2.1A  |
| 1.75 V     | 124A  | 119A  | 115A  | 95.4A | 73.1A | 39.8A | 26.7A | 15.5A | 8.66A | 2.15A |

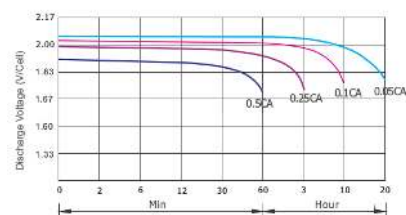
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  | 100HR |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.90 V     | 116W | 106W  | 94.8W | 91.7W | 86.3W | 61.7W | 44.7W | 28.2W | 15.1W | 4.13W |
| 1.85 V     | 125W | 120W  | 117W  | 114W  | 98.1W | 64.5W | 49.7W | 30.6W | 16.5W | 4.3W  |
| 1.80 V     | 200W | 192W  | 165W  | 152W  | 129W  | 82.1W | 56.7W | 33W   | 17.1W | 4.41W |
| 1.75 V     | 240W | 231W  | 169W  | 153W  | 130W  | 86.9W | 59.3W | 34.4W | 17.5W | 4.45W |

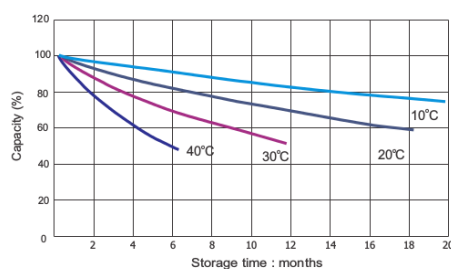
CHARGE CHARACTERISTICS



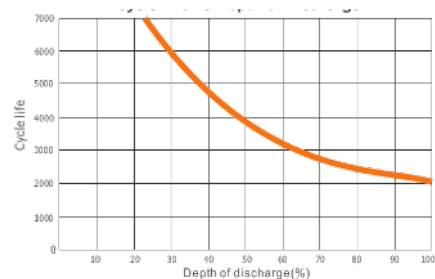
DISCHARGE CHARACTERISTIC 25°C



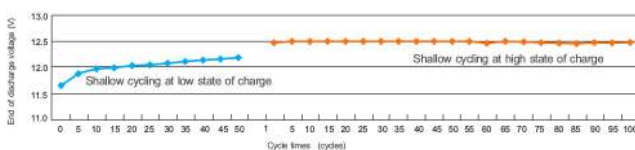
SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



CYCLE DISCHARGE VOLTAGE CURVE (Test standard BS EN 61427:2005)



## 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: 2.21-2.25V (-3mV/°C/cell) |
| Max. Charge Current              | 30 A                                                                         |
| Max. Discharge Current           | 1000 A                                                                       |
| Internal Resistance              | 0.35 mΩ                                                                      |
| Self Discharge                   | 3 % 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    | SAN                            |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Sulphuric acid                 |
| 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 ROS2-150** 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:

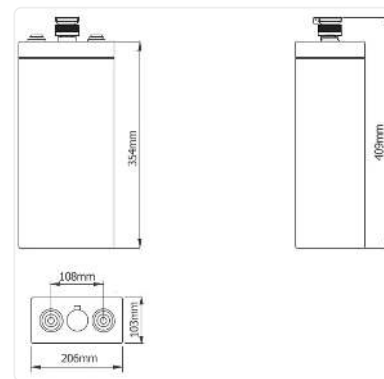
**Length:** 103 mm

**Width:** 206 mm

**Height:** 354 mm

**Total Height:** 409 mm

**Weight:** 10.5 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: 2.21-2.25V (-3mV/°C/cell)

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

### 4. SAFETY AND STORAGE

**Maintenance:** Check the electrolyte level and top up only with distilled or demineralised water.

**Position:** Always upright.

**Ventilation:** Install in a ventilated room: hydrogen is released during charging.

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

### NEARBY MODELS

**ROS2-100** (2 V · 100 Ah) · **ROS2-200** (2 V · 200 Ah) · [See all ROS series models](#)

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

## The energy tank. 20+ years of proven service life.

The ROS2-200 is a 2 V, 200 Ah (10-hour rate) OPzS lead-acid battery from the Rekoser OPzS (Flooded) series. It measures 103 × 206 × 354 mm and weighs 13 kg, with IT-M8-CU-20-7 terminals. It stores 400 Wh and delivers up to 1250 A. The energy tank. 20+ years of proven service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKS2-200**.



### MAIN ADVANTAGES

- ✓ **Technology:** Vented tubular plates with liquid electrolyte
- ✓ **Maintenance:** Periodic topping up with distilled water required
- ✓ **Durability:** Over 20 years proven design life at 20°C
- ✓ **Control:** Transparent container for easy electrolyte level monitoring

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 200 Ah (C10)       |
| Energy          | 400 Wh             |
| Weight          | 13 kg              |
| Terminal        | IT-M8-CU-20-7      |
| 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

IEC 60896-21/22

YD/T1360

BS6290 part 4

DIN40742

## GRAPHICS (25°C)

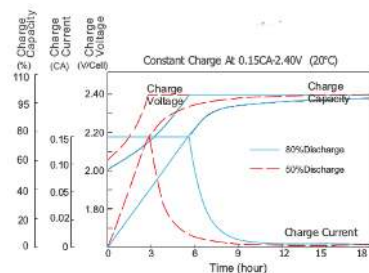
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  | 100HR |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.90 V     | 79.8A | 72.6A | 66A   | 64.6A | 59.8A | 37.8A | 27.8A | 18.2A | 10A   | 2.54A |
| 1.85 V     | 86.2A | 82.6A | 81.2A | 80.8A | 68A   | 41.8A | 32.6A | 19A   | 10.5A | 2.7A  |
| 1.80 V     | 138A  | 132A  | 129A  | 111A  | 87.4A | 51.2A | 34.6A | 20A   | 11A   | 2.8A  |
| 1.75 V     | 165A  | 158A  | 154A  | 127A  | 97.4A | 53A   | 35.6A | 20.6A | 11.6A | 2.86A |

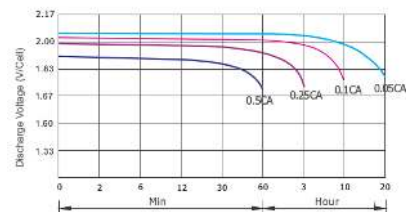
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  | 100HR |
|------------|------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| 1.90 V     | 155W | 141W  | 126W  | 122W  | 115W | 82.2W | 59.6W | 37.6W | 20.2W | 5.5W  |
| 1.85 V     | 167W | 160W  | 156W  | 152W  | 131W | 86W   | 66.2W | 40.8W | 22W   | 5.73W |
| 1.80 V     | 267W | 256W  | 220W  | 203W  | 171W | 109W  | 75.6W | 44W   | 22.8W | 5.88W |
| 1.75 V     | 320W | 307W  | 225W  | 205W  | 173W | 116W  | 79W   | 45.8W | 23.4W | 5.93W |

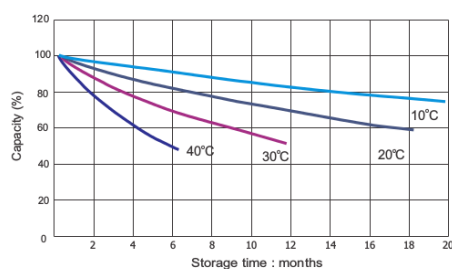
CHARGE CHARACTERISTICS



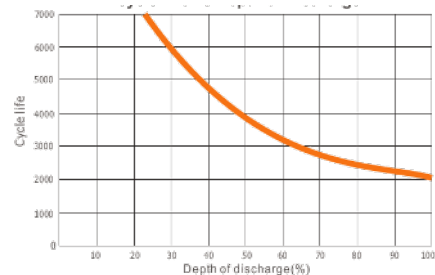
DISCHARGE CHARACTERISTIC 25oC



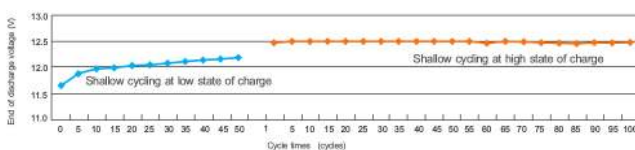
SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



CYCLE DISCHARGE VOLTAGE CURVE (Test standard BS EN 61427:2005)



## 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: 2.21-2.25V (-3mV/°C/cell) |
| Max. Charge Current              | 40 A                                                                         |
| Max. Discharge Current           | 1250 A                                                                       |
| Internal Resistance              | 0.35 mΩ                                                                      |
| Self Discharge                   | 3 % 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    | SAN                            |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Sulphuric acid                 |
| 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 ROS2-200** 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:

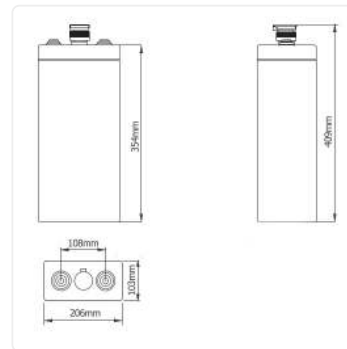
**Length:** 103 mm

**Width:** 206 mm

**Height:** 354 mm

**Total Height:** 409 mm

**Weight:** 13 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: 2.21-2.25V (-3mV/°C/cell)

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

### 4. SAFETY AND STORAGE

**Maintenance:** Check the electrolyte level and top up only with distilled or demineralised water.

**Position:** Always upright.

**Ventilation:** Install in a ventilated room: hydrogen is released during charging.

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

### NEARBY MODELS

**ROS2-150** (2 V · 150 Ah) · **ROS2-300** (2 V · 300 Ah) · [See all ROS series models](#)

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

## The energy tank. 20+ years of proven service life.

The ROS2-300 is a 2 V, 300 Ah (10-hour rate) OPzS lead-acid battery from the Rekoser OPzS (Flooded) series. It measures 145 × 206 × 354 mm and weighs 17.5 kg, with F10 terminals. It stores 600 Wh and delivers up to 1500 A. The energy tank. 20+ years of proven service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKS2-300**.



## MAIN ADVANTAGES

- ✓ **Technology:** Vented tubular plates with liquid electrolyte
- ✓ **Maintenance:** Periodic topping up with distilled water required
- ✓ **Durability:** Over 20 years proven design life at 20°C
- ✓ **Control:** Transparent container for easy electrolyte level monitoring

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 300 Ah (C10)       |
| Energy          | 600 Wh             |
| Weight          | 17.5 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

IEC 60896-21/22

YD/T1360

BS6290 part 4

DIN40742

## GRAPHICS (25°C)

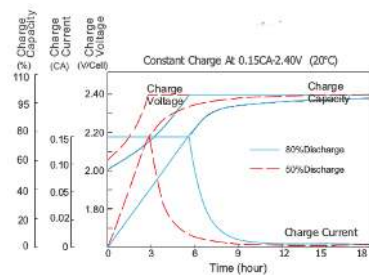
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|-------|------|-------|-------|-------|-------|
| 1.85 V     | 208A  | 144A | 69.6A | 49.5A | 28.5A | 15.5A |
| 1.80 V     | 220A  | 154A | 75.1A | 52.5A | 30A   | 16.2A |
| 1.75 V     | 228A  | 158A | 76.5A | 54.2A | 30.3A | 16.4A |
| 1.70 V     | 236A  | 162A | 77.4A | 54.7A | 30.5A | 16.6A |

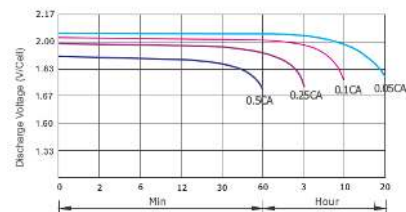
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 30MIN | 1HR  | 3HR  | 5HR  | 10HR  | 20HR  |
|------------|-------|------|------|------|-------|-------|
| 1.85 V     | 383W  | 270W | 135W | 96W  | 55.5W | 30W   |
| 1.80 V     | 412W  | 293W | 148W | 103W | 59.7W | 32.4W |
| 1.75 V     | 426W  | 300W | 150W | 106W | 60W   | 32.7W |
| 1.70 V     | 440W  | 306W | 152W | 107W | 60.8W | 33W   |

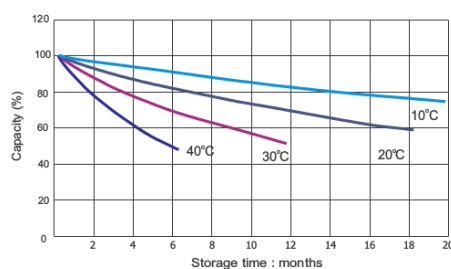
CHARGE CHARACTERISTICS



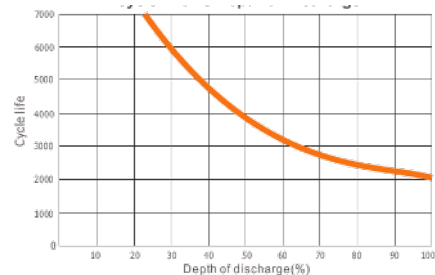
DISCHARGE CHARACTERISTIC 25oC



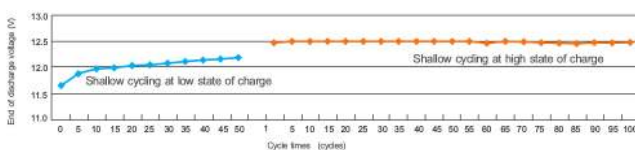
SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



CYCLE DISCHARGE VOLTAGE CURVE (Test standard BS EN 61427:2005)



## 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: 2.21-2.25V (-3mV/°C/cell) |
| Max. Charge Current              | 60 A                                                                         |
| Max. Discharge Current           | 1500 A                                                                       |
| Internal Resistance              | 0.9 mΩ                                                                       |
| Self Discharge                   | 3 % 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    | SAN                            |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Sulphuric acid                 |
| 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 ROS2-300** 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:

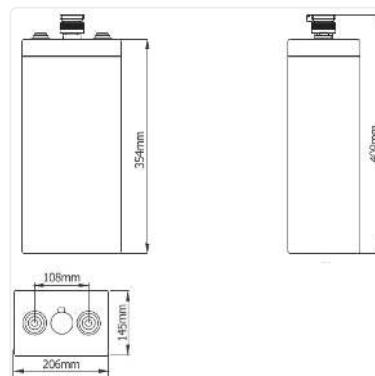
**Length:** 145 mm

**Width:** 206 mm

**Height:** 354 mm

**Total Height:** 409 mm

**Weight:** 17.5 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: 2.21-2.25V (-3mV/°C/cell)

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

### 4. SAFETY AND STORAGE

**Maintenance:** Check the electrolyte level and top up only with distilled or demineralised water.

**Position:** Always upright.

**Ventilation:** Install in a ventilated room: hydrogen is released during charging.

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

### NEARBY MODELS

**ROS2-200** (2 V · 200 Ah) · **ROS2-350** (2 V · 350 Ah) · [See all ROS series models](#)

**Specialized Technical Support**

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

## The energy tank. 20+ years of proven service life.

The ROS2-350 is a 2 V, 350 Ah (10-hour rate) OPzS lead-acid battery from the Rekoser OPzS (Flooded) series. It measures 124 × 206 × 470 mm and weighs 20 kg, with F10 terminals. It stores 700 Wh and delivers up to 1500 A. The energy tank. 20+ years of proven service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKS2-350**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 350 Ah (C10)       |
| Energy          | 700 Wh             |
| Weight          | 20 kg              |
| Terminal        | F10                |
| Dimensions      | 124 × 206 × 470 mm |

## MAIN ADVANTAGES

- ✓ **Technology:** Vented tubular plates with liquid electrolyte
- ✓ **Maintenance:** Periodic topping up with distilled water required
- ✓ **Durability:** Over 20 years proven design life at 20°C
- ✓ **Control:** Transparent container for easy electrolyte level monitoring

**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

IEC 60896-21/22

YD/T1360

BS6290 part 4

DIN40742

## GRAPHICS (25°C)

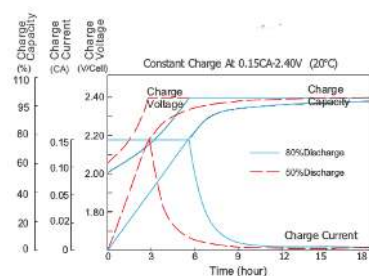
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  | 100HR |
|------------|------|-------|-------|------|-------|-------|-------|-------|-------|
| 1.90 V     | 140A | 127A  | 113A  | 105A | 66.2A | 48.7A | 31.9A | 17.5A | 4.45A |
| 1.85 V     | 151A | 145A  | 141A  | 119A | 73.2A | 57.1A | 33.3A | 18.3A | 4.73A |
| 1.80 V     | 241A | 231A  | 195A  | 153A | 89.6A | 60.6A | 35A   | 19.3A | 4.9A  |
| 1.75 V     | 289A | 277A  | 223A  | 170A | 92.8A | 62.3A | 36.1A | 20.2A | 5.01A |

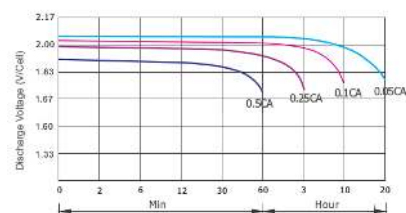
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN | 10MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR  | 20HR  | 100HR |
|------------|------|-------|-------|------|------|------|-------|-------|-------|
| 1.90 V     | 271W | 246W  | 214W  | 201W | 144W | 104W | 65.8W | 35.3W | 9.63W |
| 1.85 V     | 293W | 281W  | 266W  | 229W | 151W | 116W | 71.4W | 38.4W | 10W   |
| 1.80 V     | 467W | 448W  | 356W  | 300W | 191W | 132W | 77W   | 39.9W | 10.3W |
| 1.75 V     | 561W | 538W  | 358W  | 302W | 203W | 138W | 80.2W | 40.9W | 10.4W |

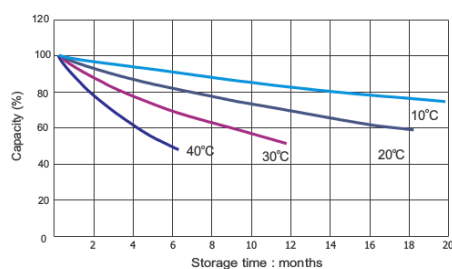
CHARGE CHARACTERISTICS



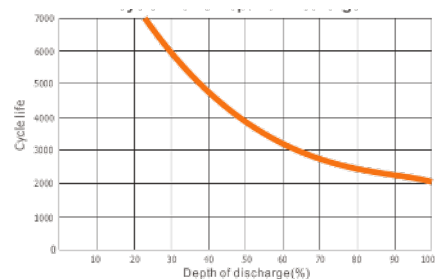
DISCHARGE CHARACTERISTIC 25°C



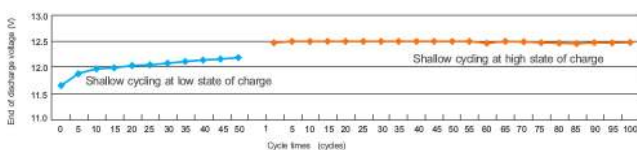
SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



CYCLE DISCHARGE VOLTAGE CURVE (Test standard BS EN 61427:2005)



SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 350 Ah (C10), 386 Ah (C20)                                                   |
| Energy                           | 700 Wh                                                                       |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.21-2.25V (-3mV/°C/cell) |
| Max. Charge Current              | 70 A                                                                         |
| Max. Discharge Current           | 1500 A                                                                       |
| Internal Resistance              | 0.32 mΩ                                                                      |
| Self Discharge                   | 3 % 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    | SAN                            |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Sulphuric acid                 |
| 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 ROS2-350** 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:

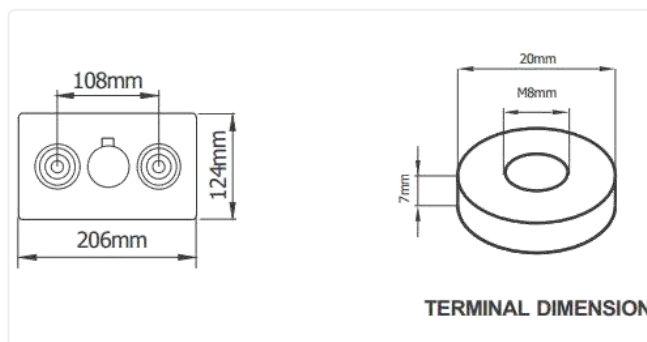
**Length:** 124 mm

**Width:** 206 mm

**Height:** 470 mm

**Total Height:** 525 mm

**Weight:** 20 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: 2.21-2.25V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 70 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Check the electrolyte level and top up only with distilled or demineralised water.

**Position:** Always upright.

**Ventilation:** Install in a ventilated room: hydrogen is released during charging.

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

### NEARBY MODELS

**ROS2-300** (2 V · 300 Ah) · **ROS2-420** (2 V · 420 Ah) · [See all ROS series models](#)

**Specialized Technical Support**

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

## The energy tank. 20+ years of proven service life.

The ROS2-420 is a 2 V, 420 Ah (10-hour rate) OPzS lead-acid battery from the Rekoser OPzS (Flooded) series. It measures 145 × 206 × 470 mm and weighs 24.5 kg, with M8 terminals. It stores 840 Wh and delivers up to 1500 A. The energy tank. 20+ years of proven service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKS2-420**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 420 Ah (C10)       |
| Energy          | 840 Wh             |
| Weight          | 24.5 kg            |
| Terminal        | M8                 |
| Dimensions      | 145 × 206 × 470 mm |

## MAIN ADVANTAGES

- ✓ **Technology:** Vented tubular plates with liquid electrolyte
- ✓ **Maintenance:** Periodic topping up with distilled water required
- ✓ **Durability:** Over 20 years proven design life at 20°C
- ✓ **Control:** Transparent container for easy electrolyte level monitoring

**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

IEC 60896-21/22

YD/T1360

BS6290 part 4

DIN40742

## GRAPHICS (25°C)

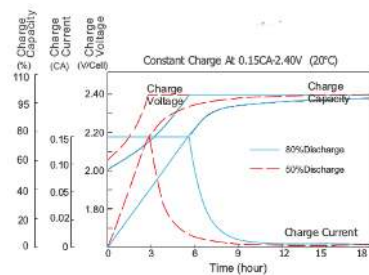
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  | 100HR |
|------------|------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| 1.90 V     | 168A | 152A  | 139A  | 136A  | 126A | 79.4A | 58.4A | 38.2A | 21A   | 5.33A |
| 1.85 V     | 181A | 173A  | 171A  | 170A  | 143A | 87.8A | 68.5A | 39.9A | 21.9A | 5.67A |
| 1.80 V     | 289A | 277A  | 271A  | 234A  | 184A | 108A  | 72.7A | 42A   | 23.1A | 5.88A |
| 1.75 V     | 347A | 333A  | 323A  | 267A  | 205A | 111A  | 74.8A | 43.3A | 24.3A | 6.01A |

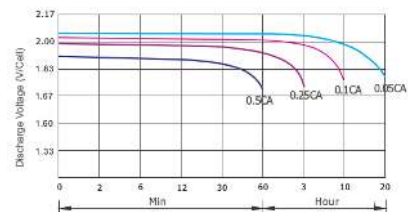
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR  | 20HR  | 100HR |
|------------|------|-------|-------|-------|------|------|------|-------|-------|-------|
| 1.90 V     | 325W | 296W  | 265W  | 257W  | 242W | 173W | 125W | 79W   | 42.3W | 11.6W |
| 1.85 V     | 351W | 337W  | 327W  | 319W  | 275W | 181W | 139W | 85.7W | 46.1W | 12W   |
| 1.80 V     | 561W | 538W  | 461W  | 427W  | 360W | 230W | 159W | 92.4W | 47.9W | 12.3W |
| 1.75 V     | 673W | 646W  | 473W  | 430W  | 363W | 243W | 166W | 96.2W | 49.1W | 12.4W |

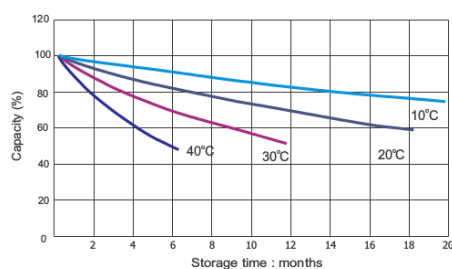
CHARGE CHARACTERISTICS



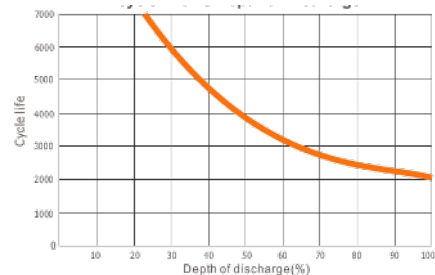
DISCHARGE CHARACTERISTIC 25°C



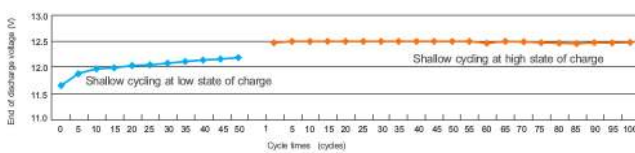
SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



CYCLE DISCHARGE VOLTAGE CURVE (Test standard BS EN 61427:2005)



## 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: 2.21-2.25V (-3mV/°C/cell) |
| Max. Charge Current              | 84 A                                                                         |
| Max. Discharge Current           | 1500 A                                                                       |
| Internal Resistance              | 0.35 mΩ                                                                      |
| Self Discharge                   | 3 % 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    | SAN                            |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Sulphuric acid                 |
| 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 ROS2-420** 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:

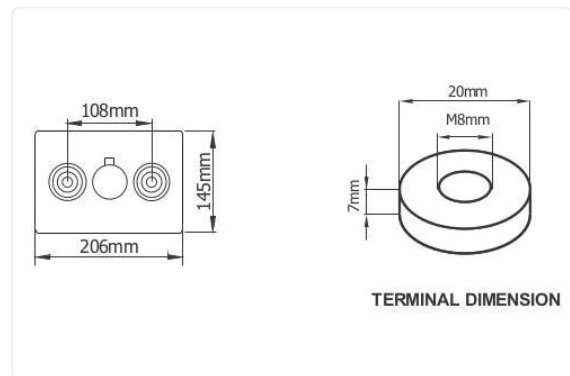
**Length:** 145 mm

**Width:** 206 mm

**Height:** 470 mm

**Total Height:** 525 mm

**Weight:** 24.5 kg



### 2. TERMINAL CONFIGURATION (M8)

**Terminals:** Ensure your system's connectors match the M8 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: 2.21-2.25V (-3mV/°C/cell)

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

### 4. SAFETY AND STORAGE

**Maintenance:** Check the electrolyte level and top up only with distilled or demineralised water.

**Position:** Always upright.

**Ventilation:** Install in a ventilated room: hydrogen is released during charging.

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

### NEARBY MODELS

**ROS2-350** (2 V · 350 Ah) · **ROS2-500** (2 V · 500 Ah) · [See all ROS series models](#)

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

## The energy tank. 20+ years of proven service life.

The ROS2-500 is a 2 V, 500 Ah (10-hour rate) OPzS lead-acid battery from the Rekoser OPzS (Flooded) series. It measures 166 × 206 × 470 mm and weighs 26 kg, with F10 terminals. It stores 1 kWh and delivers up to 2500 A. The energy tank. 20+ years of proven service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKS2-500**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 500 Ah (C10)       |
| Energy          | 1000 Wh            |
| Weight          | 26 kg              |
| Terminal        | F10                |
| Dimensions      | 166 × 206 × 470 mm |

## MAIN ADVANTAGES

- ✓ **Technology:** Vented tubular plates with liquid electrolyte
- ✓ **Maintenance:** Periodic topping up with distilled water required
- ✓ **Durability:** Over 20 years proven design life at 20°C
- ✓ **Control:** Transparent container for easy electrolyte level monitoring

**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

IEC 60896-21/22

YD/T1360

BS6290 part 4

DIN40742

## GRAPHICS (25°C)

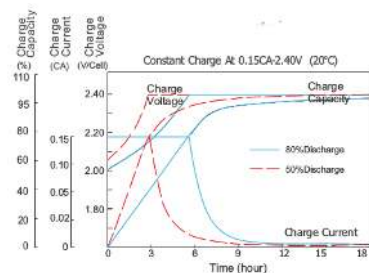
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 30MIN | 1HR  | 3HR  | 5HR   | 10HR  | 20HR  |
|------------|-------|------|------|-------|-------|-------|
| 1.85 V     | 346A  | 240A | 116A | 82.6A | 47.6A | 25.8A |
| 1.80 V     | 365A  | 256A | 124A | 87.6A | 50A   | 27A   |
| 1.75 V     | 380A  | 262A | 128A | 90A   | 50.4A | 27.2A |
| 1.70 V     | 391A  | 271A | 130A | 91A   | 50.6A | 27.4A |

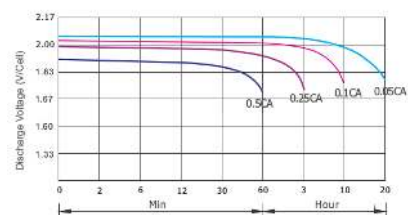
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 30MIN | 1HR  | 3HR  | 5HR  | 10HR  | 20HR  |
|------------|-------|------|------|------|-------|-------|
| 1.85 V     | 638W  | 450W | 226W | 160W | 92.6W | 50W   |
| 1.80 V     | 686W  | 485W | 241W | 172W | 99.4W | 54W   |
| 1.75 V     | 710W  | 500W | 250W | 177W | 99.8W | 54.6W |
| 1.70 V     | 730W  | 510W | 253W | 180W | 101W  | 54.7W |

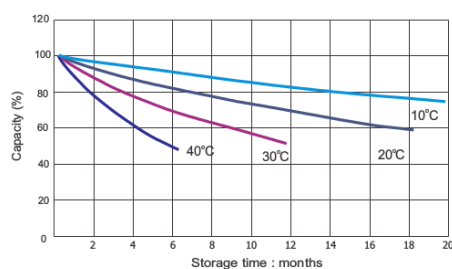
CHARGE CHARACTERISTICS



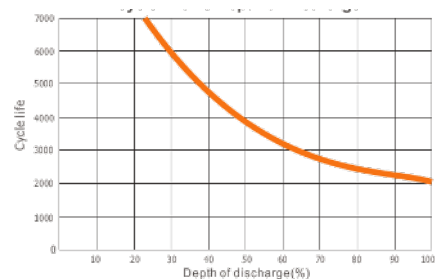
DISCHARGE CHARACTERISTIC 25oC



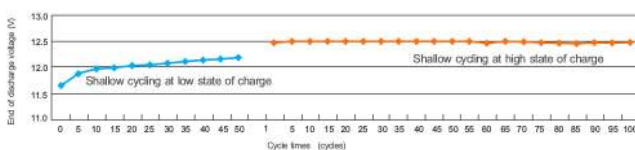
SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



CYCLE DISCHARGE VOLTAGE CURVE (Test standard BS EN 61427:2005)



## 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: 2.21-2.25V (-3mV/°C/cell) |
| Max. Charge Current              | 100 A                                                                        |
| Max. Discharge Current           | 2500 A                                                                       |
| Internal Resistance              | 0.35 mΩ                                                                      |
| Self Discharge                   | 3 % 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    | SAN                            |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Sulphuric acid                 |
| 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 ROS2-500** 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:

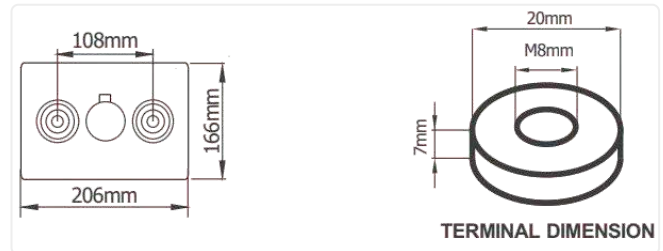
**Length:** 166 mm

**Width:** 206 mm

**Height:** 470 mm

**Total Height:** 525 mm

**Weight:** 26 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: 2.21-2.25V (-3mV/°C/cell)

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

### 4. SAFETY AND STORAGE

**Maintenance:** Check the electrolyte level and top up only with distilled or demineralised water.

**Position:** Always upright.

**Ventilation:** Install in a ventilated room: hydrogen is released during charging.

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

### NEARBY MODELS

**ROS2-420** (2 V · 420 Ah) · **ROS2-600** (2 V · 600 Ah) · [See all ROS series models](#)

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

The energy tank. 20+ years of proven service life.

The ROS2-600 is a 2 V, 600 Ah (10-hour rate) OPzS lead-acid battery from the Rekoser OPzS (Flooded) series. It measures 145 × 206 × 645 mm and weighs 31 kg, with F10 terminals. It stores 1.2 kWh and delivers up to 3000 A. The energy tank. 20+ years of proven service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKS2-600**.



## MAIN ADVANTAGES

- ✓ **Technology:** Vented tubular plates with liquid electrolyte
- ✓ **Maintenance:** Periodic topping up with distilled water required
- ✓ **Durability:** Over 20 years proven design life at 20°C
- ✓ **Control:** Transparent container for easy electrolyte level monitoring

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 600 Ah (C10)       |
| Energy          | 1200 Wh            |
| Weight          | 31 kg              |
| Terminal        | F10                |
| Dimensions      | 145 × 206 × 645 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

IEC 60896-21/22

YD/T1360

BS6290 part 4

DIN40742

## GRAPHICS (25°C)

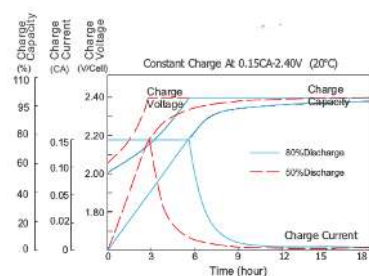
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR   | 10HR  | 20HR  | 100HR |
|------------|------|-------|-------|-------|------|------|-------|-------|-------|-------|
| 1.90 V     | 239A | 218A  | 198A  | 194A  | 179A | 113A | 83.4A | 54.6A | 30A   | 7.62A |
| 1.85 V     | 259A | 248A  | 244A  | 242A  | 204A | 125A | 97.8A | 57A   | 31.4A | 8.1A  |
| 1.80 V     | 413A | 396A  | 388A  | 334A  | 262A | 154A | 104A  | 60A   | 33A   | 8.4A  |
| 1.75 V     | 496A | 475A  | 461A  | 382A  | 292A | 159A | 107A  | 61.8A | 34.7A | 8.58A |

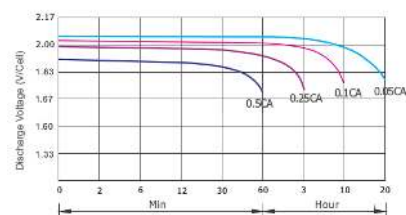
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR | 20HR  | 100HR |
|------------|------|-------|-------|-------|------|------|------|------|-------|-------|
| 1.90 V     | 464W | 422W  | 379W  | 367W  | 345W | 247W | 179W | 113W | 60.5W | 16.5W |
| 1.85 V     | 502W | 481W  | 467W  | 455W  | 392W | 258W | 199W | 122W | 65.9W | 17.2W |
| 1.80 V     | 801W | 769W  | 659W  | 610W  | 514W | 328W | 227W | 132W | 68.5W | 17.6W |
| 1.75 V     | 961W | 922W  | 676W  | 614W  | 518W | 347W | 237W | 137W | 70.1W | 17.8W |

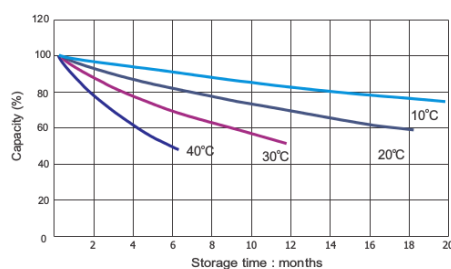
CHARGE CHARACTERISTICS



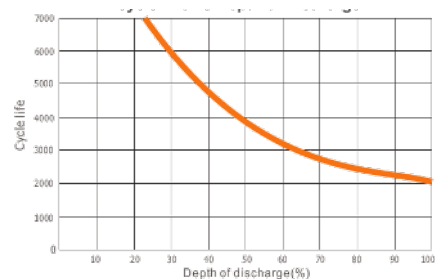
DISCHARGE CHARACTERISTIC 25°C



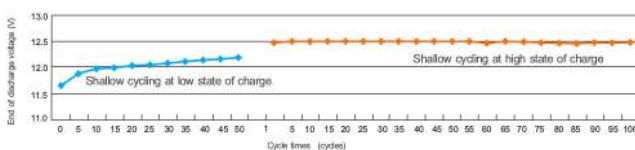
SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



CYCLE DISCHARGE VOLTAGE CURVE (Test standard BS EN 61427:2005)



## 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: 2.21-2.25V (-3mV/°C/cell) |
| Max. Charge Current              | 120 A                                                                        |
| Max. Discharge Current           | 3000 A                                                                       |
| Internal Resistance              | 0.35 mΩ                                                                      |
| Self Discharge                   | 3 % 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    | SAN                            |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Sulphuric acid                 |
| 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 ROS2-600** 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:

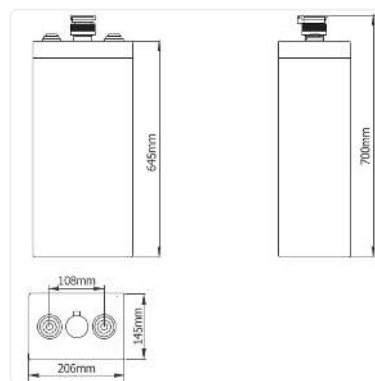
**Length:** 145 mm

**Width:** 206 mm

**Height:** 645 mm

**Total Height:** 700 mm

**Weight:** 31 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: 2.21-2.25V (-3mV/°C/cell)

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

### 4. SAFETY AND STORAGE

**Maintenance:** Check the electrolyte level and top up only with distilled or demineralised water.

**Position:** Always upright.

**Ventilation:** Install in a ventilated room: hydrogen is released during charging.

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

### NEARBY MODELS

**ROS2-500** (2 V · 500 Ah) · **ROS2-800** (2 V · 800 Ah) · [See all ROS series models](#)

**Specialized Technical Support**

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

## The energy tank. 20+ years of proven service life.

The ROS2-800 is a 2 V, 800 Ah (10-hour rate) OPzS lead-acid battery from the Rekoser OPzS (Flooded) series. It measures 191 × 210 × 645 mm and weighs 44 kg, with F10 terminals. It stores 1.6 kWh and delivers up to 4000 A. The energy tank. 20+ years of proven service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKS2-800**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 800 Ah (C10)       |
| Energy          | 1600 Wh            |
| Weight          | 44 kg              |
| Terminal        | F10                |
| Dimensions      | 191 × 210 × 645 mm |

## MAIN ADVANTAGES

- ✓ **Technology:** Vented tubular plates with liquid electrolyte
- ✓ **Maintenance:** Periodic topping up with distilled water required
- ✓ **Durability:** Over 20 years proven design life at 20°C
- ✓ **Control:** Transparent container for easy electrolyte level monitoring

**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

IEC 60896-21/22

YD/T1360

BS6290 part 4

DIN40742

## GRAPHICS (25°C)

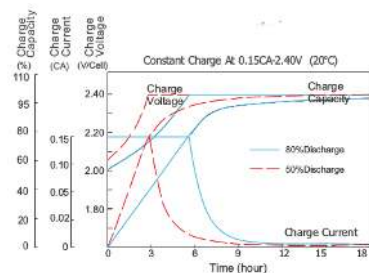
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR  | 20HR  | 100HR |
|------------|------|-------|-------|-------|------|------|------|-------|-------|-------|
| 1.90 V     | 319A | 290A  | 264A  | 258A  | 239A | 151A | 111A | 72.8A | 40A   | 10.2A |
| 1.85 V     | 345A | 330A  | 325A  | 323A  | 272A | 167A | 130A | 76A   | 41.8A | 10.8A |
| 1.80 V     | 550A | 528A  | 517A  | 350A  | 350A | 205A | 138A | 80A   | 44A   | 11.2A |
| 1.75 V     | 661A | 634A  | 614A  | 390A  | 390A | 212A | 142A | 82.4A | 46.2A | 11.4A |

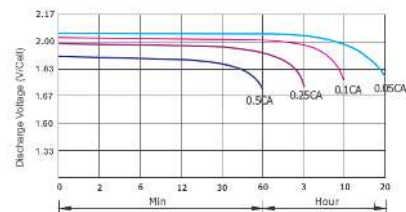
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR | 20HR  | 100HR |
|------------|-------|-------|-------|-------|------|------|------|------|-------|-------|
| 1.90 V     | 619W  | 563W  | 506W  | 460W  | 460W | 329W | 238W | 150W | 80.6W | 22W   |
| 1.85 V     | 669W  | 642W  | 623W  | 523W  | 523W | 344W | 265W | 163W | 87.8W | 22.9W |
| 1.80 V     | 1068W | 1025W | 878W  | 686W  | 686W | 438W | 302W | 176W | 91.3W | 23.5W |
| 1.75 V     | 1282W | 1230W | 901W  | 691W  | 691W | 463W | 316W | 183W | 93.5W | 23.7W |

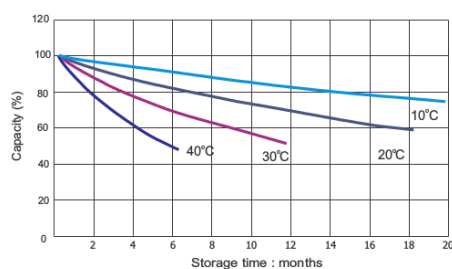
CHARGE CHARACTERISTICS



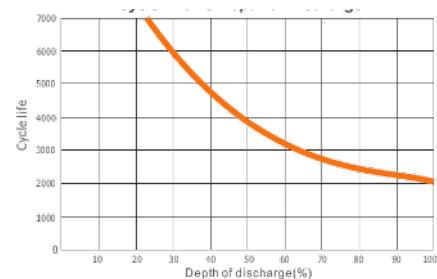
DISCHARGE CHARACTERISTIC 25°C



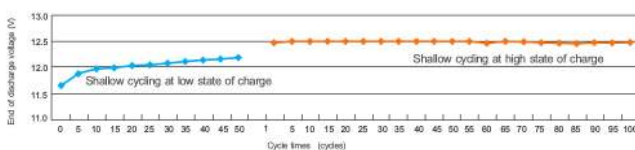
SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



CYCLE DISCHARGE VOLTAGE CURVE (Test standard BS EN 61427:2005)



## 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: 2.21-2.25V (-3mV/°C/cell) |
| Max. Charge Current              | 160 A                                                                        |
| Max. Discharge Current           | 4000 A                                                                       |
| Internal Resistance              | 0.35 mΩ                                                                      |
| Self Discharge                   | 3 % 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    | SAN                            |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Sulphuric acid                 |
| 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 ROS2-800** 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:

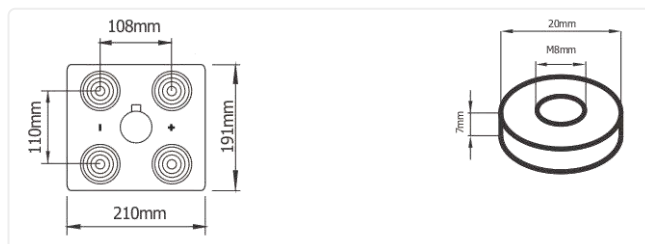
**Length:** 191 mm

**Width:** 210 mm

**Height:** 645 mm

**Total Height:** 700 mm

**Weight:** 44 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: 2.21-2.25V (-3mV/°C/cell)

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

### 4. SAFETY AND STORAGE

**Maintenance:** Check the electrolyte level and top up only with distilled or demineralised water.

**Position:** Always upright.

**Ventilation:** Install in a ventilated room: hydrogen is released during charging.

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

### NEARBY MODELS

**ROS2-600** (2 V · 600 Ah) · **ROS2-1200** (2 V · 1200 Ah) · [See all ROS series models](#)

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

## The energy tank. 20+ years of proven service life.

The ROS2-1200 is a 2 V, 1200 Ah (10-hour rate) OPzS lead-acid battery from the Rekoser OPzS (Flooded) series. It measures 275 × 210 × 645 mm and weighs 61.5 kg, with F10 terminals. It stores 2.4 kWh and delivers up to 2500 A. The energy tank. 20+ years of proven service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKS2-1200**.



### MAIN ADVANTAGES

- ✓ **Technology:** Vented tubular plates with liquid electrolyte
- ✓ **Maintenance:** Periodic topping up with distilled water required
- ✓ **Durability:** Over 20 years proven design life at 20°C
- ✓ **Control:** Transparent container for easy electrolyte level monitoring

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 1200 Ah (C10)      |
| Energy          | 2400 Wh            |
| Weight          | 61.5 kg            |
| Terminal        | F10                |
| Dimensions      | 275 × 210 × 645 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

IEC 60896-21/22

YD/T1360

BS6290 part 4

DIN40742

## GRAPHICS (25°C)

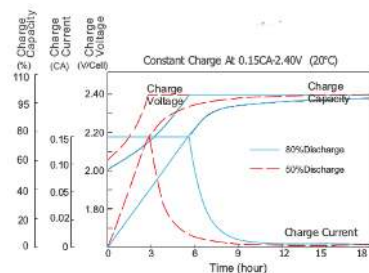
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR | 20HR  | 100HR |
|------------|------|-------|-------|-------|------|------|------|------|-------|-------|
| 1.90 V     | 479A | 436A  | 396A  | 388A  | 359A | 227A | 167A | 109A | 60.1A | 15.2A |
| 1.85 V     | 517A | 496A  | 487A  | 485A  | 408A | 251A | 196A | 114A | 62.7A | 16.2A |
| 1.80 V     | 826A | 792A  | 775A  | 667A  | 524A | 307A | 208A | 120A | 66A   | 16.8A |
| 1.75 V     | 991A | 950A  | 922A  | 763A  | 584A | 318A | 214A | 124A | 69.3A | 17.2A |

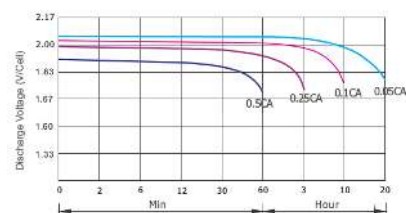
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR   | 3HR  | 5HR  | 10HR | 20HR | 100HR |
|------------|-------|-------|-------|-------|-------|------|------|------|------|-------|
| 1.90 V     | 929W  | 845W  | 758W  | 733W  | 690W  | 493W | 358W | 226W | 121W | 33W   |
| 1.85 V     | 1003W | 962W  | 935W  | 911W  | 785W  | 516W | 397W | 245W | 132W | 34.4W |
| 1.80 V     | 1602W | 1537W | 1318W | 1219W | 1028W | 656W | 454W | 264W | 137W | 35.3W |
| 1.75 V     | 1922W | 1844W | 1351W | 1228W | 1037W | 695W | 474W | 275W | 140W | 35.6W |

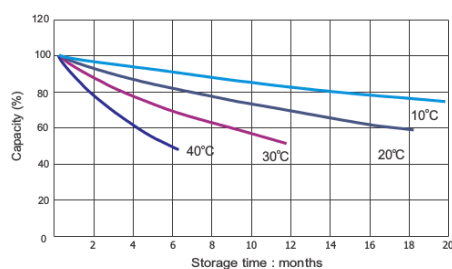
CHARGE CHARACTERISTICS



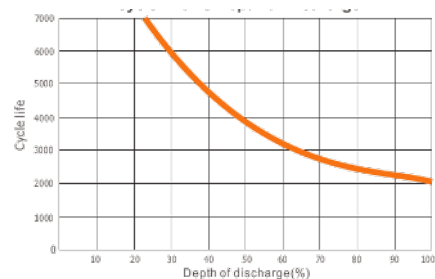
DISCHARGE CHARACTERISTIC 25°C



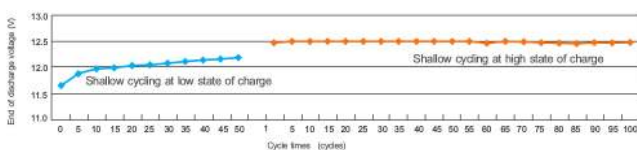
SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



CYCLE DISCHARGE VOLTAGE CURVE (Test standard BS EN 61427:2005)



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 1200 Ah (C10), 1320 Ah (C20)                                                 |
| Energy                           | 2400 Wh                                                                      |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.21-2.25V (-3mV/°C/cell) |
| Max. Charge Current              | 240 A                                                                        |
| Max. Discharge Current           | 2500 A                                                                       |
| Internal Resistance              | 0.35 mΩ                                                                      |
| Self Discharge                   | 3 % 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    | SAN                            |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Sulphuric acid                 |
| 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 ROS2-1200** 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:

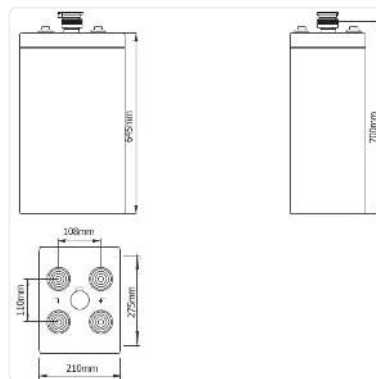
**Length:** 275 mm

**Width:** 210 mm

**Height:** 645 mm

**Total Height:** 700 mm

**Weight:** 61.5 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: 2.21-2.25V (-3mV/°C/cell)

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

### 4. SAFETY AND STORAGE

**Maintenance:** Check the electrolyte level and top up only with distilled or demineralised water.

**Position:** Always upright.

**Ventilation:** Install in a ventilated room: hydrogen is released during charging.

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

### NEARBY MODELS

**ROS2-800** (2 V · 800 Ah) · **ROS2-1500** (2 V · 1500 Ah) · [See all ROS series models](#)

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

## The energy tank. 20+ years of proven service life.

The ROS2-1500 is a 2 V, 1500 Ah (10-hour rate) OPzS lead-acid battery from the Rekoser OPzS (Flooded) series. It measures 275 × 210 × 795 mm and weighs 75 kg, with M8 terminals. It stores 3 kWh and delivers up to 3000 A. The energy tank. 20+ years of proven service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKS2-1500**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 1500 Ah (C10)      |
| Energy          | 3000 Wh            |
| Weight          | 75 kg              |
| Terminal        | M8                 |
| Dimensions      | 275 × 210 × 795 mm |

## MAIN ADVANTAGES

- ✓ **Technology:** Vented tubular plates with liquid electrolyte
- ✓ **Maintenance:** Periodic topping up with distilled water required
- ✓ **Durability:** Over 20 years proven design life at 20°C
- ✓ **Control:** Transparent container for easy electrolyte level monitoring

**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

IEC 60896-21/22

YD/T1360

BS6290 part 4

DIN40742

## GRAPHICS (25°C)

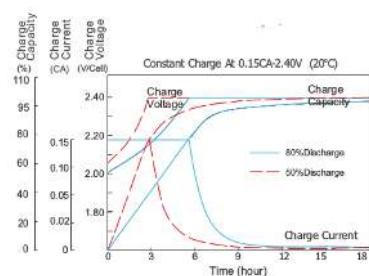
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN  | 10MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR | 20HR  | 100HR |
|------------|-------|-------|-------|------|------|------|------|-------|-------|
| 1.90 V     | 509A  | 463A  | 412A  | 449A | 284A | 209A | 137A | 75.1A | 19.1A |
| 1.85 V     | 550A  | 527A  | 515A  | 510A | 314A | 245A | 143A | 78.4A | 20.3A |
| 1.80 V     | 877A  | 842A  | 709A  | 656A | 384A | 260A | 150A | 82.5A | 21A   |
| 1.75 V     | 1053A | 1010A | 811A  | 731A | 398A | 267A | 155A | 86.6A | 21.5A |

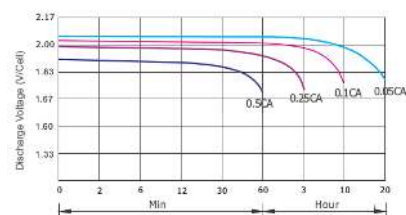
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN  | 10MIN | 30MIN | 1HR   | 3HR  | 5HR  | 10HR | 20HR   | 100HR |
|------------|-------|-------|-------|-------|------|------|------|--------|-------|
| 1.90 V     | 987W  | 898W  | 799W  | 863W  | 617W | 447W | 282W | 151.2W | 41.3W |
| 1.85 V     | 1066W | 1023W | 968W  | 981W  | 645W | 497W | 306W | 164.7W | 43W   |
| 1.80 V     | 1702W | 1633W | 1295W | 1286W | 821W | 567W | 330W | 171.2W | 44.1W |
| 1.75 V     | 2043W | 1960W | 1304W | 1296W | 869W | 593W | 344W | 175.4W | 44.5W |

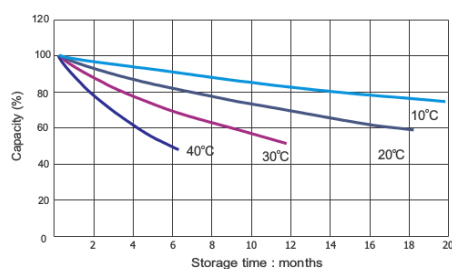
CHARGE CHARACTERISTICS



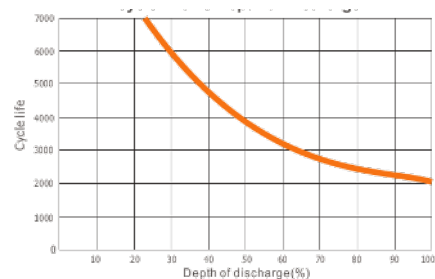
DISCHARGE CHARACTERISTIC 25°C



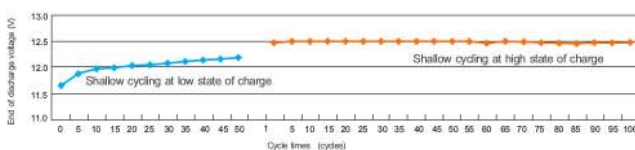
SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



CYCLE DISCHARGE VOLTAGE CURVE (Test standard BS EN 61427:2005)



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 1500 Ah (C10), 1650 Ah (C20)                                                 |
| Energy                           | 3000 Wh                                                                      |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.21-2.25V (-3mV/°C/cell) |
| Max. Charge Current              | 300 A                                                                        |
| Max. Discharge Current           | 3000 A                                                                       |
| Internal Resistance              | 0.32 mΩ                                                                      |
| Self Discharge                   | 3 % 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    | SAN                            |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Sulphuric acid                 |
| 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 ROS2-1500** 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:** 795 mm

**Total Height:** 850 mm

**Weight:** 75 kg

### 2. TERMINAL CONFIGURATION (M8)

**Terminals:** Ensure your system's connectors match the M8 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: 2.21-2.25V (-3mV/°C/cell)

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

### 4. SAFETY AND STORAGE

**Maintenance:** Check the electrolyte level and top up only with distilled or demineralised water.

**Position:** Always upright.

**Ventilation:** Install in a ventilated room: hydrogen is released during charging.

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

### NEARBY MODELS

**ROS2-1200** (2 V · 1200 Ah) · **ROS2-2000** (2 V · 2000 Ah) · [See all ROS series models](#)

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

## The energy tank. 20+ years of proven service life.

The ROS2-2000 is a 2 V, 2000 Ah (10-hour rate) OPzS lead-acid battery from the Rekoser OPzS (Flooded) series. It measures 399 × 210 × 771 mm and weighs 108 kg, with M8 terminals. It stores 4 kWh and delivers up to 3000 A. The energy tank. 20+ years of proven service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKS2-2000**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 2000 Ah (C10)      |
| Energy          | 4000 Wh            |
| Weight          | 108 kg             |
| Terminal        | M8                 |
| Dimensions      | 399 × 210 × 771 mm |

## MAIN ADVANTAGES

- ✓ **Technology:** Vented tubular plates with liquid electrolyte
- ✓ **Maintenance:** Periodic topping up with distilled water required
- ✓ **Durability:** Over 20 years proven design life at 20°C
- ✓ **Control:** Transparent container for easy electrolyte level monitoring

**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

IEC 60896-21/22

YD/T1360

BS6290 part 4

DIN40742

## GRAPHICS (25°C)

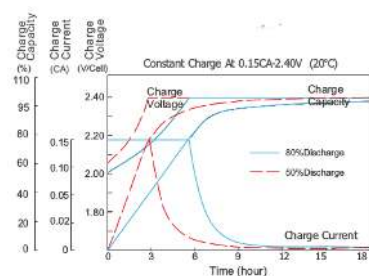
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR | 20HR | 100HR |
|------------|-------|-------|-------|-------|------|------|------|------|------|-------|
| 1.90 V     | 678A  | 617A  | 561A  | 549A  | 498A | 378A | 278A | 182A | 100A | 25.4A |
| 1.85 V     | 733A  | 702A  | 690A  | 687A  | 680A | 418A | 326A | 190A | 105A | 27A   |
| 1.80 V     | 1170A | 1122A | 1098A | 945A  | 874A | 512A | 346A | 200A | 110A | 28A   |
| 1.75 V     | 1404A | 1346A | 1306A | 1081A | 974A | 530A | 356A | 206A | 116A | 28.6A |

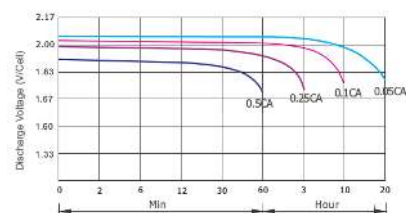
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR  | 10HR | 20HR | 100HR |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| 1.90 V     | 1316W | 1197W | 1074W | 1039W | 1150W | 822W  | 596W | 376W | 202W | 55W   |
| 1.85 V     | 1421W | 1363W | 1324W | 1290W | 1308W | 860W  | 662W | 408W | 220W | 57.3W |
| 1.80 V     | 2270W | 2178W | 1867W | 1727W | 1714W | 1094W | 756W | 440W | 228W | 58.8W |
| 1.75 V     | 2723W | 2613W | 1914W | 1739W | 1728W | 1158W | 790W | 458W | 234W | 59.3W |

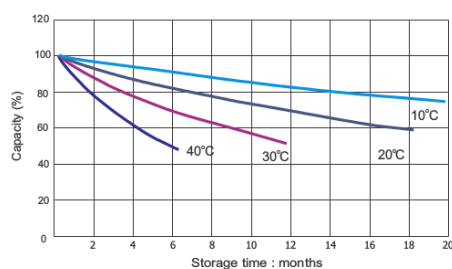
CHARGE CHARACTERISTICS



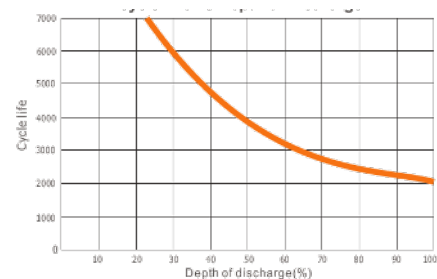
DISCHARGE CHARACTERISTIC 25°C



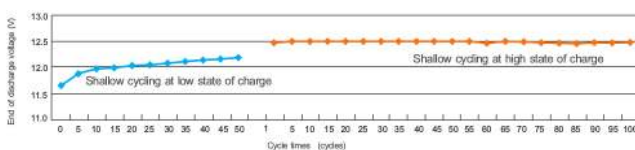
SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



CYCLE DISCHARGE VOLTAGE CURVE (Test standard BS EN 61427:2005)



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 2000 Ah (C10), 2200 Ah (C20)                                                 |
| Energy                           | 4000 Wh                                                                      |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.21-2.25V (-3mV/°C/cell) |
| Max. Charge Current              | 400 A                                                                        |
| Max. Discharge Current           | 3000 A                                                                       |
| Internal Resistance              | 0.35 mΩ                                                                      |
| Self Discharge                   | 3 % 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    | SAN                            |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Sulphuric acid                 |
| 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 ROS2-2000** 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:

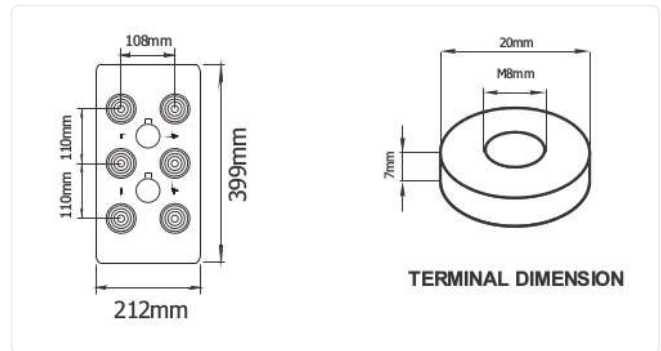
**Length:** 399 mm

**Width:** 210 mm

**Height:** 771 mm

**Total Height:** 826 mm

**Weight:** 108 kg



### 2. TERMINAL CONFIGURATION (M8)

**Terminals:** Ensure your system's connectors match the M8 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: 2.21-2.25V (-3mV/°C/cell)

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

### 4. SAFETY AND STORAGE

**Maintenance:** Check the electrolyte level and top up only with distilled or demineralised water.

**Position:** Always upright.

**Ventilation:** Install in a ventilated room: hydrogen is released during charging.

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

### NEARBY MODELS

**ROS2-1500** (2 V · 1500 Ah) · **ROS2-3000** (2 V · 3000 Ah) · [See all ROS series models](#)

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

## The energy tank. 20+ years of proven service life.

The ROS2-3000 is a 2 V, 3000 Ah (10-hour rate) OPzS lead-acid battery from the Rekoser OPzS (Flooded) series. It measures 576 × 212 × 771 mm and weighs 157 kg, with F10 terminals. It stores 6 kWh and delivers up to 4000 A. The energy tank. 20+ years of proven service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKS2-3000**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 3000 Ah (C10)      |
| Energy          | 6000 Wh            |
| Weight          | 157 kg             |
| Terminal        | F10                |
| Dimensions      | 576 × 212 × 771 mm |

## MAIN ADVANTAGES

- ✓ **Technology:** Vented tubular plates with liquid electrolyte
- ✓ **Maintenance:** Periodic topping up with distilled water required
- ✓ **Durability:** Over 20 years proven design life at 20°C
- ✓ **Control:** Transparent container for easy electrolyte level monitoring

**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

IEC 60896-21/22

YD/T1360

BS6290 part 4

DIN40742

## GRAPHICS (25°C)

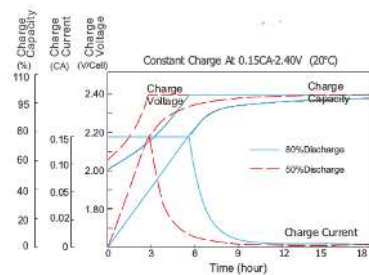
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR   | 3HR  | 5HR  | 10HR | 20HR | 100HR |
|------------|-------|-------|-------|-------|-------|------|------|------|------|-------|
| 1.90 V     | 958A  | 871A  | 792A  | 775A  | 897A  | 567A | 417A | 273A | 150A | 38.1A |
| 1.85 V     | 1034A | 991A  | 974A  | 970A  | 1020A | 627A | 489A | 285A | 157A | 40.5A |
| 1.80 V     | 1651A | 1584A | 1550A | 1334A | 1311A | 768A | 519A | 300A | 165A | 42A   |
| 1.75 V     | 1982A | 1901A | 1843A | 1526A | 1461A | 795A | 534A | 309A | 173A | 42A   |

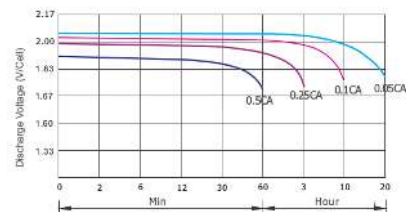
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR | 20HR | 100HR |
|------------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|
| 1.90 V     | 1974W | 1795W | 1612W | 1558W | 1725W | 1233W | 894W  | 564W | 302W | 82.6W |
| 1.85 V     | 2132W | 2045W | 1986W | 1935W | 1962W | 1290W | 993W  | 612W | 329W | 86W   |
| 1.80 V     | 3404W | 3267W | 2800W | 2591W | 2571W | 1641W | 1134W | 660W | 342W | 88.1W |
| 1.75 V     | 4085W | 3919W | 2871W | 2609W | 2592W | 1737W | 1185W | 687W | 351W | 88.9W |

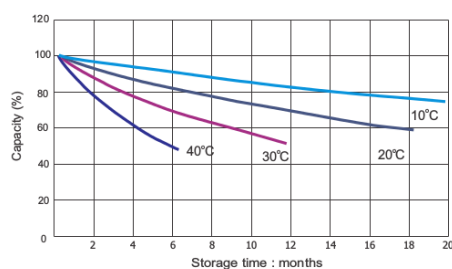
CHARGE CHARACTERISTICS



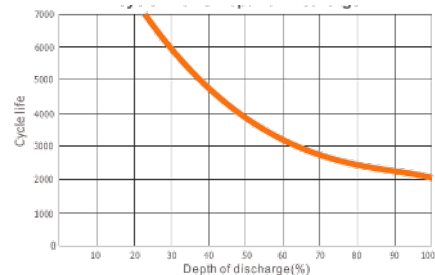
DISCHARGE CHARACTERISTIC 25°C



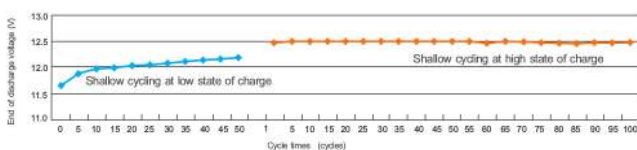
SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



CYCLE DISCHARGE VOLTAGE CURVE (Test standard BS EN 61427:2005)



## 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: 2.21-2.25V (-3mV/°C/cell) |
| Max. Charge Current              | 500 A                                                                        |
| Max. Discharge Current           | 4000 A                                                                       |
| Internal Resistance              | 0.35 mΩ                                                                      |
| Self Discharge                   | 3 % 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    | SAN                            |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Sulphuric acid                 |
| 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 ROS2-3000** 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:

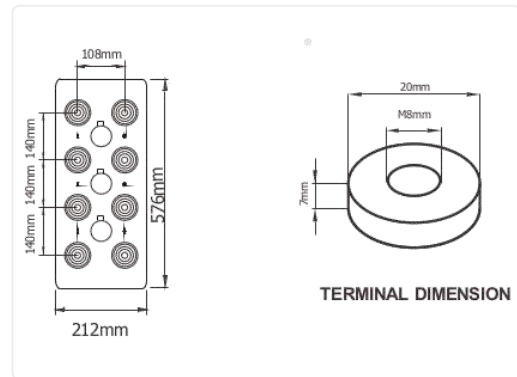
**Length:** 576 mm

**Width:** 212 mm

**Height:** 771 mm

**Total Height:** 826 mm

**Weight:** 157 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: 2.21-2.25V (-3mV/°C/cell)

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

### 4. SAFETY AND STORAGE

**Maintenance:** Check the electrolyte level and top up only with distilled or demineralised water.

**Position:** Always upright.

**Ventilation:** Install in a ventilated room: hydrogen is released during charging.

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

### NEARBY MODELS

**ROS2-2000** (2 V · 2000 Ah) · **ROS2-3300** (2 V · 3300 Ah) · [See all ROS series models](#)

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

## The energy tank. 20+ years of proven service life.

The ROS2-3300 is a 2 V, 3300 Ah (10-hour rate) OPzS lead-acid battery from the Rekoser OPzS (Flooded) series. It measures 576 × 212 × 771 mm and weighs 162 kg, with F10 terminals. It stores 6.6 kWh and delivers up to 6000 A. The energy tank. 20+ years of proven service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKS2-3300**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 2 V                |
| Capacity (25°C) | 3300 Ah (C10)      |
| Energy          | 6600 Wh            |
| Weight          | 162 kg             |
| Terminal        | F10                |
| Dimensions      | 576 × 212 × 771 mm |

## MAIN ADVANTAGES

- ✓ **Technology:** Vented tubular plates with liquid electrolyte
- ✓ **Maintenance:** Periodic topping up with distilled water required
- ✓ **Durability:** Over 20 years proven design life at 20°C
- ✓ **Control:** Transparent container for easy electrolyte level monitoring

**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

IEC 60896-21/22

YD/T1360

BS6290 part 4

DIN40742

## GRAPHICS (25°C)

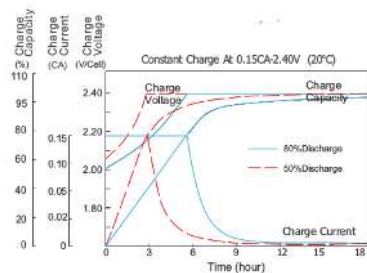
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 30MIN | 1HR   | 3HR  | 5HR  | 10HR | 20HR |
|------------|-------|-------|------|------|------|------|
| 1.80 V     | 1932A | 1389A | 820A | 597A | 330A | 178A |
| 1.75 V     | 2128A | 1578A | 868A | 607A | 332A | 179A |
| 1.70 V     | 2219A | 1677A | 913A | 611A | 334A | 180A |
| 1.65 V     | 2364A | 1707A | 926A | 620A | 335A | 181A |
| 1.60 V     | 2412A | 1733A | 931A | 624A | 336A | 181A |

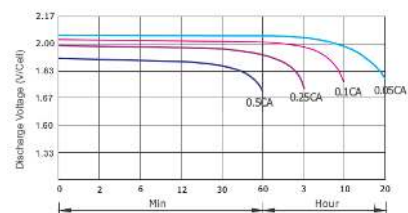
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 30MIN | 1HR   | 3HR   | 5HR   | 10HR | 20HR |
|------------|-------|-------|-------|-------|------|------|
| 1.80 V     | 3474W | 2552W | 1570W | 1177W | 657W | 356W |
| 1.75 V     | 3826W | 2899W | 1670W | 1196W | 661W | 359W |
| 1.70 V     | 3990W | 3081W | 1766W | 1205W | 667W | 362W |
| 1.65 V     | 4421W | 3242W | 1815W | 1221W | 668W | 362W |
| 1.60 V     | 4511W | 3292W | 1825W | 1229W | 669W | 363W |

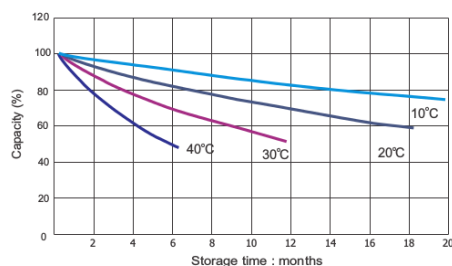
CHARGE CHARACTERISTICS



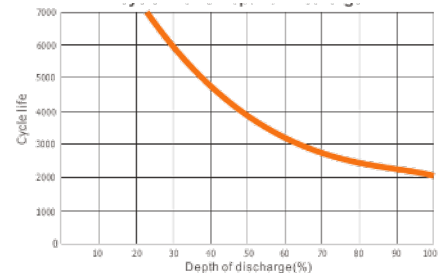
DISCHARGE CHARACTERISTIC 25oC



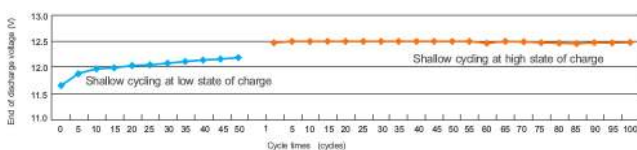
SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



CYCLE DISCHARGE VOLTAGE CURVE (Test standard BS EN 61427:2005)



## SPECIFICATIONS

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                          |
| Capacity (25°C)                  | 3300 Ah (C10)                                                                |
| Energy                           | 6600 Wh                                                                      |
| Cell number                      | 1                                                                            |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV/°C/cell)<br>Float use: 2.20-2.24V (-3mV/°C/cell) |
| Max. Charge Current              | 825 A                                                                        |
| Max. Discharge Current           | 6000 A                                                                       |
| Internal Resistance              | 0.15 mΩ                                                                      |
| Self Discharge                   | 3 % 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    | SAN                            |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Sulphuric acid                 |
| 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 ROS2-3300** 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:

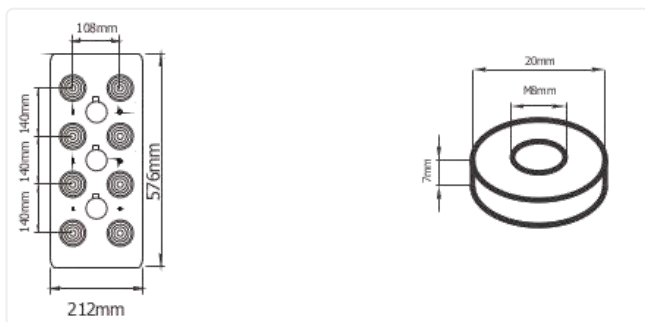
**Length:** 576 mm

**Width:** 212 mm

**Height:** 771 mm

**Total Height:** 826 mm

**Weight:** 162 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: 2.20-2.24V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 825 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Check the electrolyte level and top up only with distilled or demineralised water.

**Position:** Always upright.

**Ventilation:** Install in a ventilated room: hydrogen is released during charging.

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

### NEARBY MODELS

**ROS2-3000** (2 V · 3000 Ah) · [See all ROS series models](#)

**Specialized Technical Support**

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

The energy tank. 20+ years of proven service life.

The ROS6-150 is a 6 V, 150 Ah (10-hour rate) OPzS lead-acid battery from the Rekoser OPzS (Flooded) series. It measures 270 × 205 × 390 mm and weighs 42 kg, with IT-M8-CU-20-7 terminals. It stores 900 Wh and delivers up to 1000 A. The energy tank. 20+ years of proven service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.



## MAIN ADVANTAGES

- ✓ **Technology:** Vented tubular plates with liquid electrolyte
- ✓ **Maintenance:** Periodic topping up with distilled water required
- ✓ **Durability:** Over 20 years proven design life at 20°C
- ✓ **Control:** Transparent container for easy electrolyte level monitoring

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 6 V                |
| Capacity (25°C) | 150 Ah (C10)       |
| Energy          | 900 Wh             |
| Weight          | 42 kg              |
| Terminal        | IT-M8-CU-20-7      |
| Dimensions      | 270 × 205 × 390 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

IEC 60896-21/22

YD/T1360

BS6290 part 4

DIN40742

## GRAPHICS (25°C)

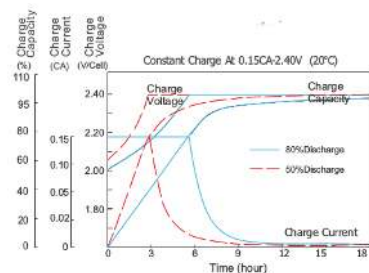
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  |
|------------|-------|-------|-------|-------|-------|-------|-------|
| 1.90 V     | 54.5A | 49.5A | 48.5A | 44.9A | 28.4A | 20.9A | 13.7A |
| 1.85 V     | 62A   | 60.9A | 60.6A | 51A   | 31.4A | 24.5A | 14.3A |
| 1.80 V     | 99A   | 96.9A | 83.4A | 65.6A | 38.4A | 26A   | 15A   |
| 1.75 V     | 119A  | 115A  | 95.4A | 73.1A | 39.8A | 26.7A | 15.5A |

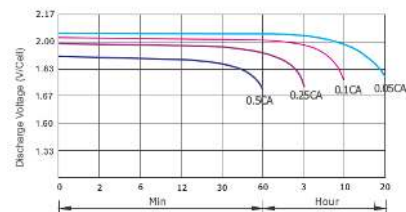
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  |
|------------|-------|-------|-------|-------|-------|-------|-------|
| 1.90 V     | 106W  | 94.8W | 91.7W | 86.3W | 61.7W | 44.7W | 28.2W |
| 1.85 V     | 120W  | 117W  | 114W  | 98.1W | 64.5W | 49.7W | 30.6W |
| 1.80 V     | 192W  | 165W  | 152W  | 129W  | 82.1W | 56.7W | 33W   |
| 1.75 V     | 231W  | 169W  | 153W  | 130W  | 86.9W | 59.3W | 34.4W |

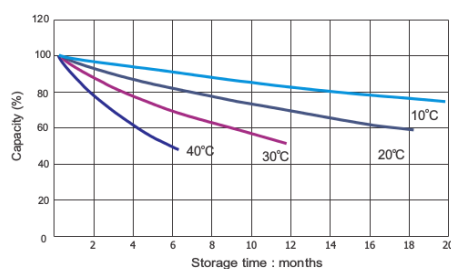
CHARGE CHARACTERISTICS



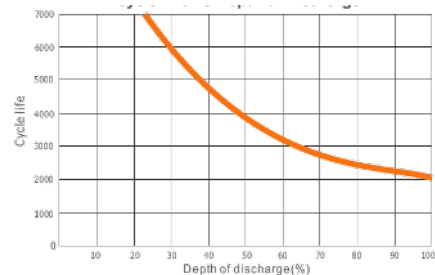
DISCHARGE CHARACTERISTIC 25°C



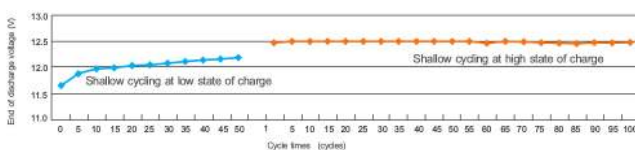
SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



CYCLE DISCHARGE VOLTAGE CURVE (Test standard BS EN 61427:2005)



## SPECIFICATIONS

|                                  |                                                                             |
|----------------------------------|-----------------------------------------------------------------------------|
| Nominal Voltage                  | 6 V                                                                         |
| Capacity (25°C)                  | 150 Ah (C10)                                                                |
| Energy                           | 900 Wh                                                                      |
| Cell number                      | 3                                                                           |
| Charge Voltage (25°C)            | Cycle use: 7.80-8.40V (-5mV/°C/cell)<br>Float use: 7.35-7.5V (-3mV/°C/cell) |
| Max. Charge Current              | 30 A                                                                        |
| Max. Discharge Current           | 1000 A                                                                      |
| Short-circuit current            | 2400                                                                        |
| Internal Resistance              | 0.85 mΩ                                                                     |
| Self Discharge                   | 3 % 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    | SAN                            |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Sulphuric acid                 |
| 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 ROS6-150** battery, follow these assembly and connection guidelines.

### 1. SPACE AND DIMENSION VERIFICATION

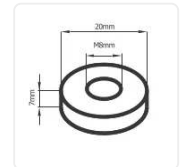
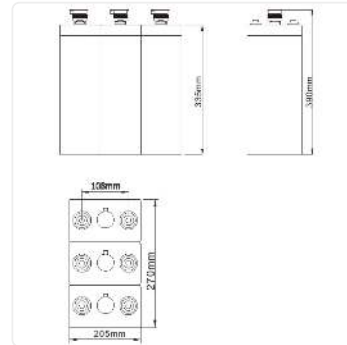
Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

**Length:** 270 mm

**Width:** 205 mm

**Height:** 390 mm

**Weight:** 42 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: 7.80-8.40V (-5mV/°C/cell)

Float use: 7.35-7.5V (-3mV/°C/cell)

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

### 4. SAFETY AND STORAGE

**Maintenance:** Check the electrolyte level and top up only with distilled or demineralised water.

**Position:** Always upright.

**Ventilation:** Install in a ventilated room: hydrogen is released during charging.

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

### NEARBY MODELS

**ROS6-260** (6 V · 260 Ah) · [See all ROS series models](#)

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

## The energy tank. 20+ years of proven service life.

The ROS6-260 is a 6 V, 260 Ah (20-hour rate) OPzS lead-acid battery from the Rekoser OPzS (Flooded) series. It measures 260 × 280 × 248 mm and weighs 22 kg, with F10 terminals. It stores 1.56 kWh and delivers up to 1000 A. The energy tank. 20+ years of proven service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKS6-260**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 6 V                |
| Capacity (25°C) | 260 Ah (C20)       |
| Energy          | 1560 Wh            |
| Weight          | 22 kg              |
| Terminal        | F10                |
| Dimensions      | 260 × 280 × 248 mm |

## MAIN ADVANTAGES

- ✓ **Technology:** Vented tubular plates with liquid electrolyte
- ✓ **Maintenance:** Periodic topping up with distilled water required
- ✓ **Durability:** Over 20 years proven design life at 20°C
- ✓ **Control:** Transparent container for easy electrolyte level monitoring

**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

IEC 60896-21/22

YD/T1360

BS6290 part 4

DIN40742

## GRAPHICS (25°C)

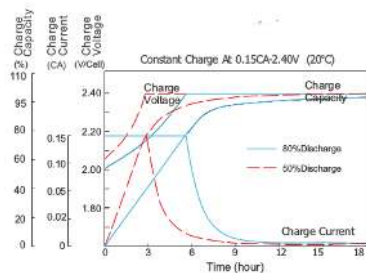
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|------|-------|-------|-------|-------|
| 5.55 V     | 448A | 406A  | 374A  | 265A  | 173A | 77.5A | 52A   | 29.2A | 15.4A |
| 5.40 V     | 523A | 451A  | 410A  | 281A  | 181A | 80.1A | 53.2A | 30A   | 15.7A |
| 5.25 V     | 592A | 496A  | 440A  | 294A  | 187A | 81.7A | 54.5A | 30.6A | 16.1A |
| 5.01 V     | 763A | 587A  | 501A  | 316A  | 196A | 84A   | 55.7A | 31.4A | 16.7A |
| 4.80 V     | 855A | 638A  | 532A  | 331A  | 201A | 85A   | 56.5A | 31.8A | 17.1A |

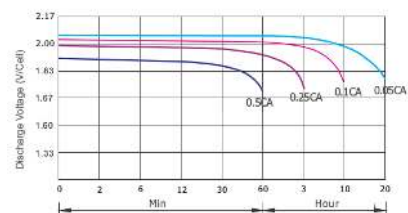
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR  | 20HR  |
|------------|-------|-------|-------|-------|------|------|------|-------|-------|
| 5.55 V     | 844W  | 771W  | 714W  | 511W  | 336W | 152W | 103W | 58.4W | 30.9W |
| 5.40 V     | 970W  | 846W  | 776W  | 535W  | 347W | 156W | 104W | 59.6W | 31.4W |
| 5.25 V     | 1082W | 921W  | 824W  | 555W  | 356W | 158W | 106W | 60.3W | 31.8W |
| 5.01 V     | 1361W | 1067W | 921W  | 588W  | 367W | 160W | 108W | 61W   | 32.7W |
| 4.80 V     | 1506W | 1146W | 970W  | 612W  | 374W | 161W | 110W | 61.4W | 33.2W |

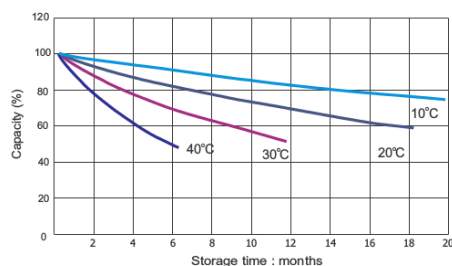
CHARGE CHARACTERISTICS



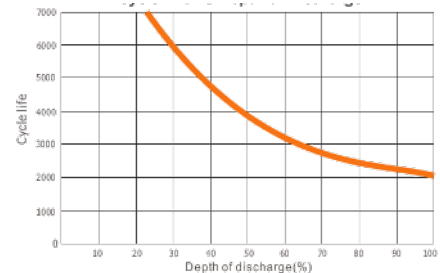
DISCHARGE CHARACTERISTIC 25°C



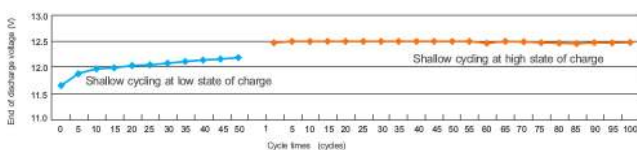
SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



CYCLE DISCHARGE VOLTAGE CURVE (Test standard BS EN 61427:2005)



SPECIFICATIONS

|                                  |                                                                             |
|----------------------------------|-----------------------------------------------------------------------------|
| Nominal Voltage                  | 6 V                                                                         |
| Capacity (25°C)                  | 260 Ah (C20), 215 Ah (C5)                                                   |
| Energy                           | 1560 Wh                                                                     |
| Cell number                      | 3                                                                           |
| Charge Voltage (25°C)            | Cycle use: 7.80-8.40V (-5mV/°C/cell)<br>Float use: 7.35-7.5V (-3mV/°C/cell) |
| Max. Charge Current              | 90 A                                                                        |
| Max. Discharge Current           | 1000 A                                                                      |
| Internal Resistance              | 0.35 mΩ                                                                     |
| Self Discharge                   | 3 % 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    | SAN                            |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Sulphuric acid                 |
| 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 ROS6-260 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:

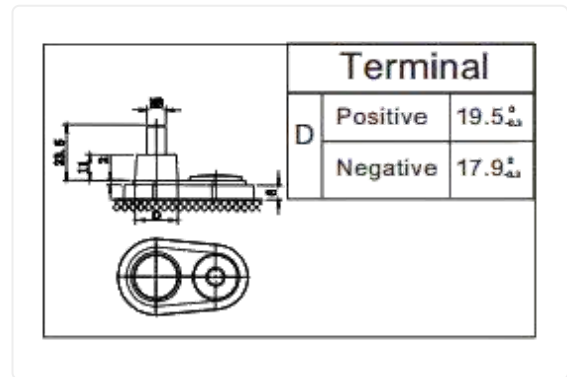
**Length:** 260 mm

**Width:** 280 mm

**Height:** 248 mm

**Total Height:** 279.5 mm

**Weight:** 22 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: 7.80-8.40V (-5mV/°C/cell)

Float use: 7.35-7.5V (-3mV/°C/cell)

**Maximum Current:** Do not exceed 90 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Check the electrolyte level and top up only with distilled or demineralised water.

**Position:** Always upright.

**Ventilation:** Install in a ventilated room: hydrogen is released during charging.

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

### NEARBY MODELS

**ROS6-150** (6 V · 150 Ah) · [See all ROS series models](#)

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

## The energy tank. 20+ years of proven service life.

The ROS12-50 is a 12 V, 50 Ah (10-hour rate) OPzS lead-acid battery from the Rekoser OPzS (Flooded) series. It measures 260 × 168 × 211 mm and weighs 20 kg, with F11 terminals. It stores 600 Wh and delivers up to 2500 A. The energy tank. 20+ years of proven service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKS12-50**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 50 Ah (C10)        |
| Energy          | 600 Wh             |
| Weight          | 20 kg              |
| Terminal        | F11                |
| Dimensions      | 260 × 168 × 211 mm |

## MAIN ADVANTAGES

- ✓ **Technology:** Vented tubular plates with liquid electrolyte
- ✓ **Maintenance:** Periodic topping up with distilled water required
- ✓ **Durability:** Over 20 years proven design life at 20°C
- ✓ **Control:** Transparent container for easy electrolyte level monitoring

**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

IEC 60896-21/22

YD/T1360

BS6290 part 4

DIN40742

## GRAPHICS (25°C)

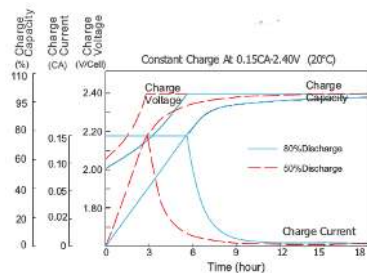
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|-------|-------|-------|-------|-------|-------|-------|
| 10.80 V    | 45.6A | 36.6A | 25.5A | 12.4A | 8.73A | 5A    | 2.7A  |
| 10.50 V    | 48.1A | 38A   | 26.3A | 12.8A | 9A    | 5.04A | 2.72A |
| 10.20 V    | 49.8A | 39A   | 26.9A | 12.8A | 9.06A | 5.07A | 2.74A |
| 9.90 V     | 51.7A | 40.2A | 27.6A | 13A   | 9.19A | 5.08A | 2.74A |
| 9.60 V     | 53A   | 41A   | 28A   | 13.1A | 9.24A | 5.09A | 2.75A |

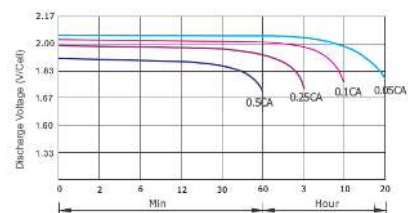
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|-------|-------|-------|-------|-------|-------|-------|
| 10.80 V    | 83.4W | 68.5W | 48.5W | 24.2W | 17.2W | 10W   | 5.4W  |
| 10.50 V    | 88.1W | 71.1W | 50.1W | 25W   | 17.7W | 10W   | 5.44W |
| 10.20 V    | 91.2W | 72.8W | 51.1W | 25.2W | 17.9W | 10.1W | 5.47W |
| 9.90 V     | 94.7W | 75.1W | 52.4W | 25.5W | 18.1W | 10.1W | 5.49W |
| 9.60 V     | 97W   | 76.7W | 53.2W | 25.7W | 18.2W | 10.1W | 5.5W  |

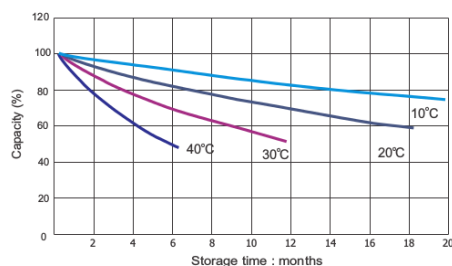
CHARGE CHARACTERISTICS



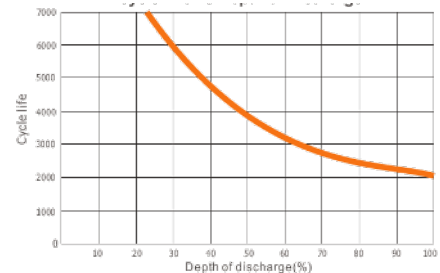
DISCHARGE CHARACTERISTIC 25oC



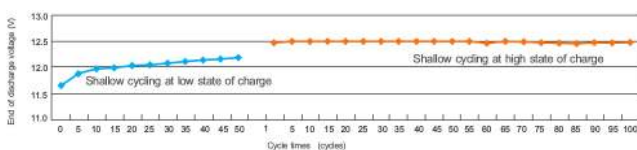
SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



CYCLE DISCHARGE VOLTAGE CURVE (Test standard BS EN 61427:2005)



## SPECIFICATIONS

|                                  |                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                                 |
| Capacity (25°C)                  | 50 Ah (C10)                                                                          |
| Energy                           | 600 Wh                                                                               |
| Cell number                      | 6                                                                                    |
| Charge Voltage (25°C)            | Cycle use: 14.1-14.4V (-5mV / o C/ cell)<br>Float use: 13.2-13.5V (-3mV / o C/ cell) |
| Max. Charge Current              | 240 A                                                                                |
| Max. Discharge Current           | 2500 A                                                                               |
| Internal Resistance              | 0.35 mΩ                                                                              |
| Self Discharge                   | 3 % 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    | SAN                            |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Sulphuric acid                 |
| 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 ROS12-50** 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:

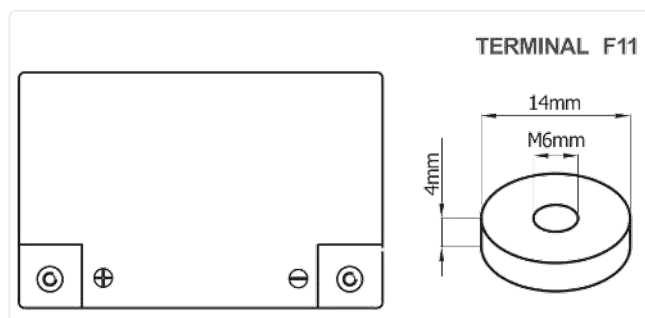
**Length:** 260 mm

**Width:** 168 mm

**Height:** 211 mm

**Total Height:** 826 mm

**Weight:** 20 kg



### 2. TERMINAL CONFIGURATION (F11)

**Terminals:** Ensure your system's connectors match the F11 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 (-5mV / o C/ cell)

Float use: 13.2-13.5V (-3mV / o C/ cell)

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

### 4. SAFETY AND STORAGE

**Maintenance:** Check the electrolyte level and top up only with distilled or demineralised water.

**Position:** Always upright.

**Ventilation:** Install in a ventilated room: hydrogen is released during charging.

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

### NEARBY MODELS

**ROS12-100** (12 V · 100 Ah) · [See all ROS series models](#)

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

## The energy tank. 20+ years of proven service life.

The ROS12-100 is a 12 V, 100 Ah (10-hour rate) OPzS lead-acid battery from the Rekoser OPzS (Flooded) series. It measures 409 × 176 × 225 mm and weighs 42.5 kg, with F10 terminals. It stores 1.2 kWh and delivers up to 800 A. The energy tank. 20+ years of proven service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKS12-100**.

### MAIN ADVANTAGES

- ✓ **Technology:** Vented tubular plates with liquid electrolyte
- ✓ **Maintenance:** Periodic topping up with distilled water required
- ✓ **Durability:** Over 20 years proven design life at 20°C
- ✓ **Control:** Transparent container for easy electrolyte level monitoring



|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 100 Ah (C10)       |
| Energy          | 1200 Wh            |
| Weight          | 42.5 kg            |
| Terminal        | F10                |
| Dimensions      | 409 × 176 × 225 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

IEC 60896-21/22

YD/T1360

BS6290 part 4

DIN40742

## GRAPHICS (25°C)

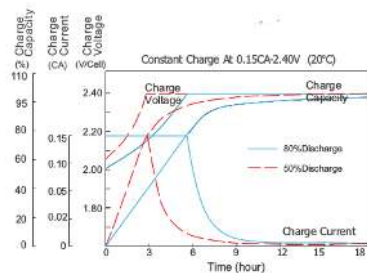
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|-------|-------|-------|-------|-------|-------|-------|
| 10.80 V    | 91.2A | 73.2A | 51.1A | 24.7A | 17.5A | 10A   | 5.4A  |
| 10.50 V    | 96.2A | 76A   | 52.7A | 25.5A | 18A   | 10.1A | 5.44A |
| 10.20 V    | 99.6A | 77.9A | 53.8A | 25.7A | 18.1A | 10.1A | 5.47A |
| 9.90 V     | 103A  | 80.4A | 55.2A | 26A   | 18.4A | 10.2A | 5.49A |
| 9.60 V     | 106A  | 82A   | 56A   | 26.2A | 18.5A | 10.2A | 5.5A  |

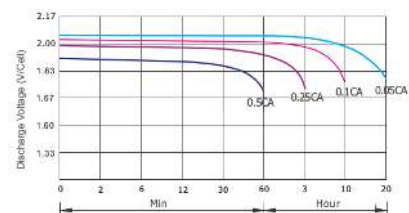
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|-------|-------|------|-------|-------|-------|-------|
| 10.80 V    | 167W  | 137W  | 97W  | 48.5W | 34.4W | 19.9W | 10.8W |
| 10.50 V    | 176W  | 142W  | 100W | 50W   | 35.5W | 20W   | 10.9W |
| 10.20 V    | 182W  | 146W  | 102W | 50.3W | 35.7W | 20.2W | 10.9W |
| 9.90 V     | 189W  | 150W  | 105W | 51W   | 36.2W | 20.2W | 11W   |
| 9.60 V     | 194W  | 153W  | 106W | 51.3W | 36.4W | 20.3W | 11W   |

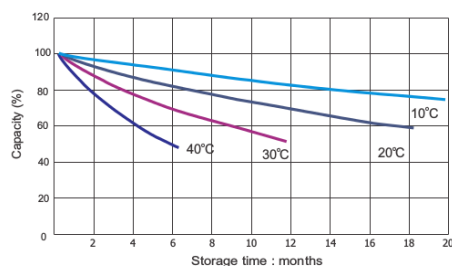
CHARGE CHARACTERISTICS



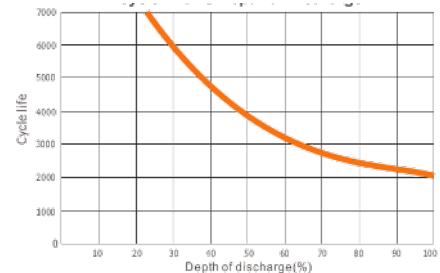
DISCHARGE CHARACTERISTIC 25oC



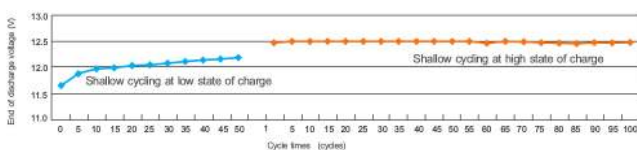
SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



CYCLE DISCHARGE VOLTAGE CURVE (Test standard BS EN 61427:2005)



## SPECIFICATIONS

|                                  |                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                                 |
| Capacity (25°C)                  | 100 Ah (C10), 108 Ah (C20)                                                           |
| Energy                           | 1200 Wh                                                                              |
| Cell number                      | 6                                                                                    |
| Charge Voltage (25°C)            | Cycle use: 14.1-14.4V (-5mV / o C/ cell)<br>Float use: 13.2-13.5V (-3mV / o C/ cell) |
| Max. Charge Current              | 20 A                                                                                 |
| Max. Discharge Current           | 800 A                                                                                |
| Internal Resistance              | 0.35 mΩ                                                                              |
| Self Discharge                   | 3 % 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    | SAN                            |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Sulphuric acid                 |
| 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 ROS12-100** 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:

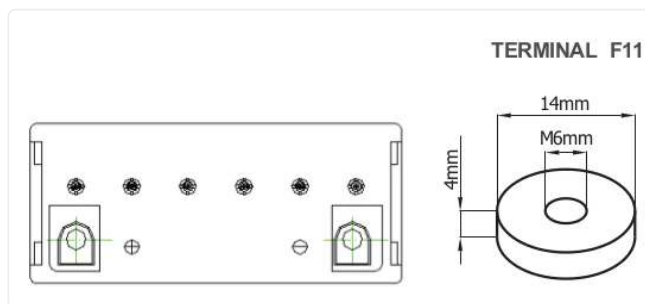
**Length:** 409 mm

**Width:** 176 mm

**Height:** 225 mm

**Total Height:** 225 mm

**Weight:** 42.5 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: 14.1-14.4V (-5mV / o C/ cell)

Float use: 13.2-13.5V (-3mV / o C/ cell)

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

### 4. SAFETY AND STORAGE

**Maintenance:** Check the electrolyte level and top up only with distilled or demineralised water.

**Position:** Always upright.

**Ventilation:** Install in a ventilated room: hydrogen is released during charging.

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

### NEARBY MODELS

**ROS12-50** (12 V · 50 Ah) · **ROS12-150** (12 V · 150 Ah) · [See all ROS series models](#)

**Specialized Technical Support**

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

## The energy tank. 20+ years of proven service life.

The ROS12-150 is a 12 V, 150 Ah (10-hour rate) OPzS lead-acid battery from the Rekoser OPzS (Flooded) series. It measures 522 × 238 × 218 mm and weighs 52.5 kg, with F10 terminals. It stores 1.8 kWh and delivers up to 960 A. The energy tank. 20+ years of proven service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKS12-150**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 150 Ah (C10)       |
| Energy          | 1800 Wh            |
| Weight          | 52.5 kg            |
| Terminal        | F10                |
| Dimensions      | 522 × 238 × 218 mm |

## MAIN ADVANTAGES

- ✓ **Technology:** Vented tubular plates with liquid electrolyte
- ✓ **Maintenance:** Periodic topping up with distilled water required
- ✓ **Durability:** Over 20 years proven design life at 20°C
- ✓ **Control:** Transparent container for easy electrolyte level monitoring

**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

IEC 60896-21/22

YD/T1360

BS6290 part 4

DIN40742

## GRAPHICS (25°C)

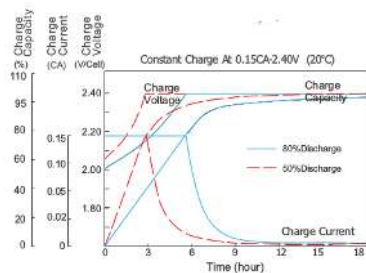
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|-------|-------|-------|-------|-------|-------|-------|
| 1.60 V     | 159A  | 123A  | 84A   | 39.3A | 27.7A | 15.3A | 8.25A |
| 1.65 V     | 155A  | 121A  | 82.7A | 39.1A | 27.6A | 15.2A | 8.23A |
| 1.70 V     | 149A  | 117A  | 80.6A | 38.5A | 27.2A | 15.2A | 8.21A |
| 1.75 V     | 144A  | 114A  | 79A   | 38.3A | 27A   | 15.1A | 8.16A |
| 1.80 V     | 137A  | 110A  | 76.6A | 37.1A | 26.2A | 15A   | 8.1A  |

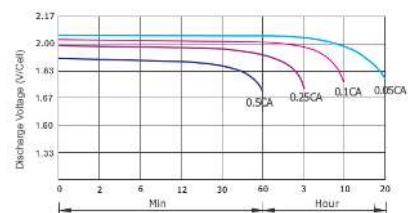
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|-------|-------|------|-------|-------|-------|-------|
| 1.60 V     | 291W  | 230W  | 160W | 77W   | 54.6W | 30.4W | 16.5W |
| 1.65 V     | 284W  | 225W  | 157W | 76.6W | 54.3W | 30.3W | 16.5W |
| 1.70 V     | 274W  | 219W  | 153W | 75.5W | 53.6W | 30.2W | 16.4W |
| 1.75 V     | 264W  | 213W  | 150W | 75W   | 53.2W | 30.1W | 16.3W |
| 1.80 V     | 250W  | 205W  | 146W | 72.7W | 51.6W | 23.9W | 16.2W |

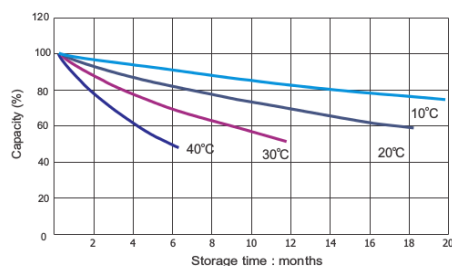
CHARGE CHARACTERISTICS



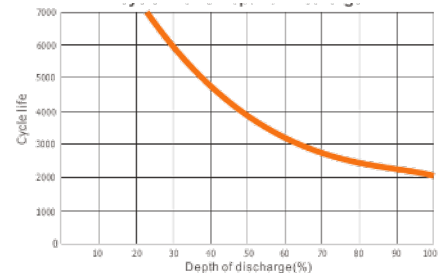
DISCHARGE CHARACTERISTIC 25oC



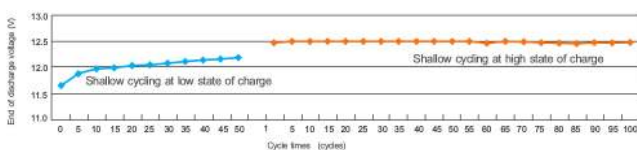
SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



CYCLE DISCHARGE VOLTAGE CURVE (Test standard BS EN 61427:2005)



## SPECIFICATIONS

|                                  |                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                                 |
| Capacity (25°C)                  | 150 Ah (C10)                                                                         |
| Energy                           | 1800 Wh                                                                              |
| Cell number                      | 6                                                                                    |
| Charge Voltage (25°C)            | Cycle use: 14.1-14.4V (-5mV / o C/ cell)<br>Float use: 13.2-13.5V (-3mV / o C/ cell) |
| Max. Charge Current              | 30 A                                                                                 |
| Max. Discharge Current           | 960 A                                                                                |
| Internal Resistance              | 0.35 mΩ                                                                              |
| Self Discharge                   | 3 % 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    | SAN                            |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Sulphuric acid                 |
| 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 ROS12-150** 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:** 522 mm

**Width:** 238 mm

**Height:** 218 mm

**Total Height:** 218 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: 14.1-14.4V (-5mV / o C/ cell)

Float use: 13.2-13.5V (-3mV / o C/ cell)

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

### 4. SAFETY AND STORAGE

**Maintenance:** Check the electrolyte level and top up only with distilled or demineralised water.

**Position:** Always upright.

**Ventilation:** Install in a ventilated room: hydrogen is released during charging.

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

### NEARBY MODELS

**ROS12-100** (12 V · 100 Ah) · **ROS12-220** (12 V · 220 Ah) · [See all ROS series models](#)

Specialized Technical Support

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

## The energy tank. 20+ years of proven service life.

The ROS12-220 is a 12 V, 220 Ah (10-hour rate) OPzS lead-acid battery from the Rekoser OPzS (Flooded) series. It measures 522 × 269 × 220 mm and weighs 73.5 kg, with F12 terminals. It stores 2.64 kWh and delivers up to 1160 A. The energy tank. 20+ years of proven service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKS12-220**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 220 Ah (C10)       |
| Energy          | 2640 Wh            |
| Weight          | 73.5 kg            |
| Terminal        | F12                |
| Dimensions      | 522 × 269 × 220 mm |

## MAIN ADVANTAGES

- ✓ **Technology:** Vented tubular plates with liquid electrolyte
- ✓ **Maintenance:** Periodic topping up with distilled water required
- ✓ **Durability:** Over 20 years proven design life at 20°C
- ✓ **Control:** Transparent container for easy electrolyte level monitoring

**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

IEC 60896-21/22

YD/T1360

BS6290 part 4

DIN40742

## GRAPHICS (25°C)

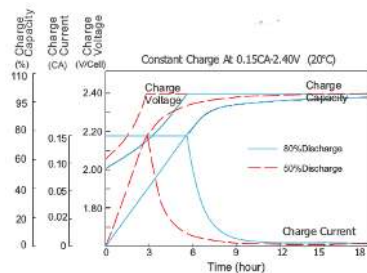
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|------|-------|-------|-------|-------|
| 10.8 V     | 225A | 216A  | 201A  | 161A  | 112A | 54.4A | 38.4A | 22A   | 11.9A |
| 10.5 V     | 239A | 229A  | 212A  | 167A  | 116A | 56.1A | 39.6A | 22.2A | 12A   |
| 10.02 V    | 250A | 239A  | 219A  | 171A  | 118A | 56.5A | 39.9A | 22.3A | 12A   |
| 9.9 V      | 260A | 250A  | 228A  | 177A  | 121A | 57.3A | 40.4A | 22.4A | 12.1A |
| 9.6 V      | 268A | 257A  | 233A  | 180A  | 123A | 57.6A | 40.7A | 22.4A | 12.1A |

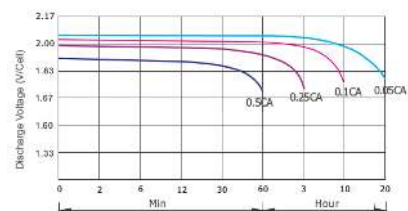
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|------|------|-------|-------|-------|
| 10.8 V     | 404W | 389W  | 367W  | 301W  | 213W | 107W | 75.7W | 53.8W | 23.8W |
| 10.5 V     | 428W | 412W  | 387W  | 313W  | 220W | 110W | 78W   | 44.1W | 23.9W |
| 10.02 V    | 447W | 431W  | 401W  | 320W  | 225W | 111W | 78.6W | 44.3W | 24.1W |
| 9.9 V      | 466W | 449W  | 417W  | 331W  | 231W | 112W | 79.7W | 44.5W | 24.1W |
| 9.6 V      | 480W | 463W  | 427W  | 337W  | 234W | 113W | 80.1W | 44.6W | 24.2W |

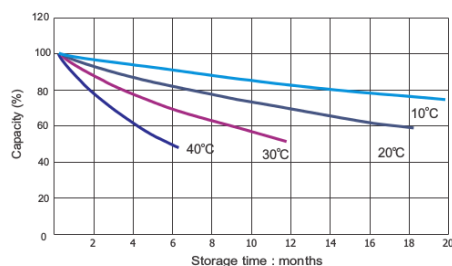
CHARGE CHARACTERISTICS



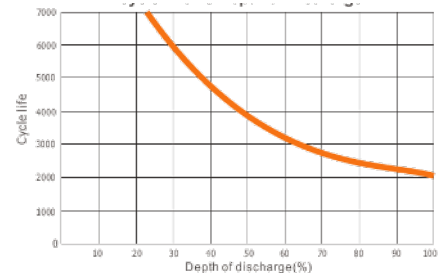
DISCHARGE CHARACTERISTIC 25°C



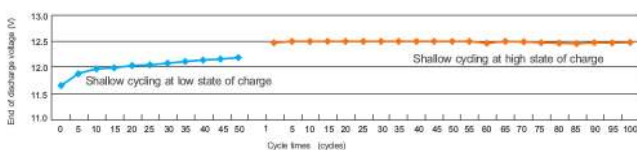
SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



CYCLE DISCHARGE VOLTAGE CURVE (Test standard BS EN 61427:2005)



## SPECIFICATIONS

|                                  |                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                                 |
| Capacity (25°C)                  | 220 Ah (C10)                                                                         |
| Energy                           | 2640 Wh                                                                              |
| Cell number                      | 6                                                                                    |
| Charge Voltage (25°C)            | Cycle use: 14.1-14.4V (-5mV / o C/ cell)<br>Float use: 13.2-13.5V (-3mV / o C/ cell) |
| Max. Charge Current              | 66 A                                                                                 |
| Max. Discharge Current           | 1160 A                                                                               |
| Internal Resistance              | 0.35 mΩ                                                                              |
| Self Discharge                   | 3 % 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    | SAN                            |
| Cover        | ABS (Flame Retardant Optional) |
| Electrolyte  | Sulphuric acid                 |
| 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 ROS12-220** 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:

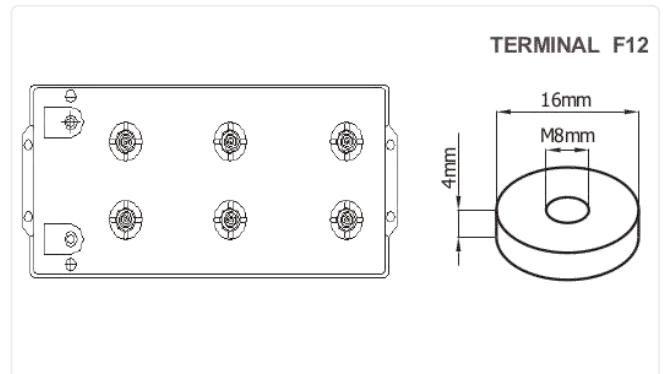
**Length:** 522 mm

**Width:** 269 mm

**Height:** 220 mm

**Total Height:** 220 mm

**Weight:** 73.5 kg



### 2. TERMINAL CONFIGURATION (F12)

**Terminals:** Ensure your system's connectors match the F12 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 (-5mV / o C/ cell)

Float use: 13.2-13.5V (-3mV / o C/ cell)

**Maximum Current:** Do not exceed 66 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Check the electrolyte level and top up only with distilled or demineralised water.

**Position:** Always upright.

**Ventilation:** Install in a ventilated room: hydrogen is released during charging.

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

### NEARBY MODELS

**ROS12-150** (12 V · 150 Ah) · [See all ROS series models](#)

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