

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

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

Formerly **RKV2-600**.



## MAIN ADVANTAGES

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

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

**20**  
YEARS

## LONG LIFE DESIGN

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

**2**  
YEARS

## WARRANTY

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

## MAIN APPLICATIONS



SOLAR/WIND ENERGY SYSTEMS



ELECTRICAL SUBSTATIONS



TELECOMMUNICATIONS AND BASE STATIONS



RAILWAY SIGNALING AND INFRASTRUCTURE



MARITIME



UPS AND DATA CENTERS

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

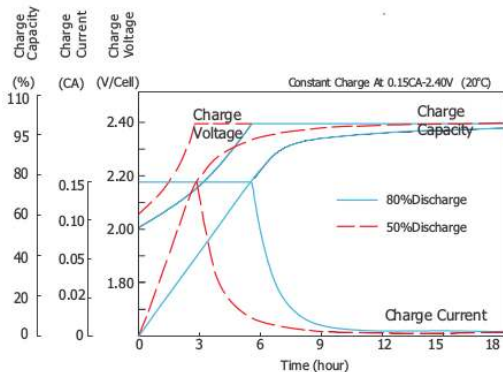
Constant Discharge Ratings (A) at 25°C

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

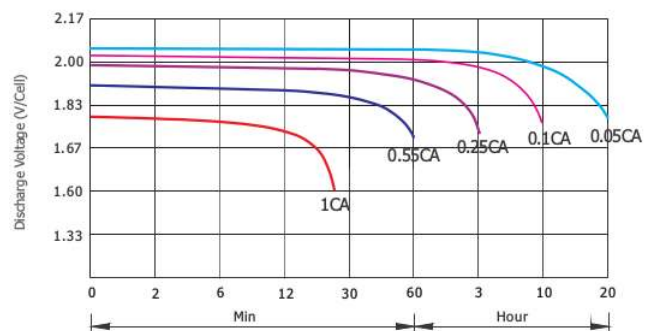
Constant Discharge Ratings (W) at 25°C

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

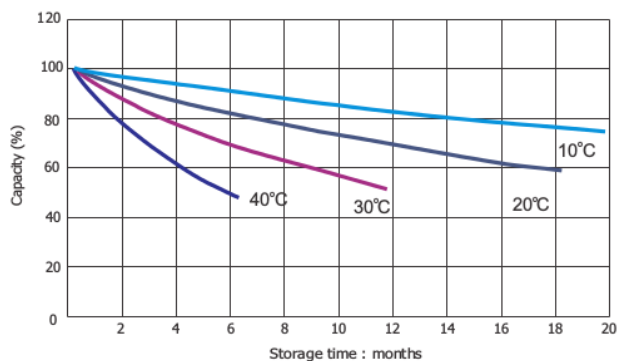
CHARGE CHARACTERISTICS



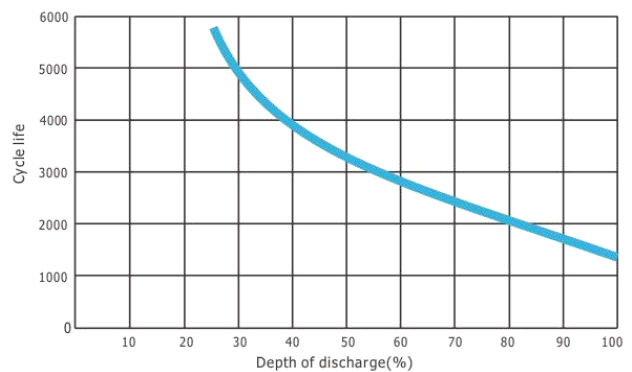
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

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

## CONSTRUCTION

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

## QUICK INSTALLATION GUIDE

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

### 1. SPACE AND DIMENSION VERIFICATION

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

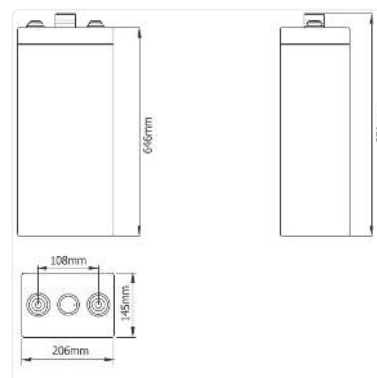
**Length:** 145 mm

**Width:** 206 mm

**Height:** 646 mm

**Total Height:** 681 mm

**Weight:** 42 kg



### 2. TERMINAL CONFIGURATION (F10)

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

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

### 3. CHARGE PARAMETERS

Cycle use: 2.35-2.40V (-5mV/°C/cell)

Float use: 2.25-2.29V (-3mV/°C/cell)

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

### 4. SAFETY AND STORAGE

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

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

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

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

### NEARBY MODELS

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

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