

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

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

Formerly RKV2-2500.

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

## MAIN ADVANTAGES

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

**20**  
YEARS

### LONG LIFE DESIGN

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

**2**  
YEARS

### WARRANTY

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

## MAIN APPLICATIONS



SOLAR/WIND ENERGY  
SYSTEMS



ELECTRICAL SUBSTATIONS



TELECOMMUNICATIONS  
AND BASE STATIONS



RAILWAY SIGNALING AND  
INFRASTRUCTURE



MARITIME



UPS AND DATA CENTERS

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

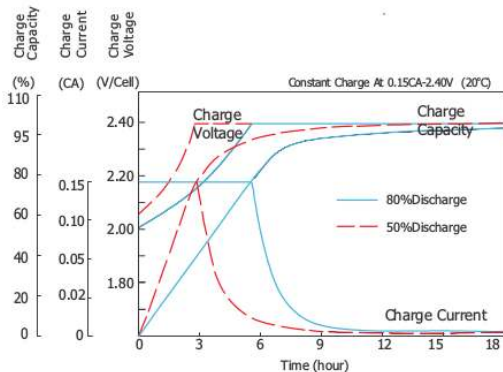
Constant Discharge Ratings (A) at 25°C

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

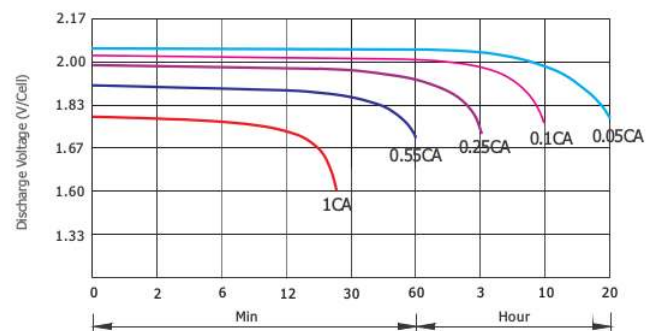
Constant Discharge Ratings (W) at 25°C

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

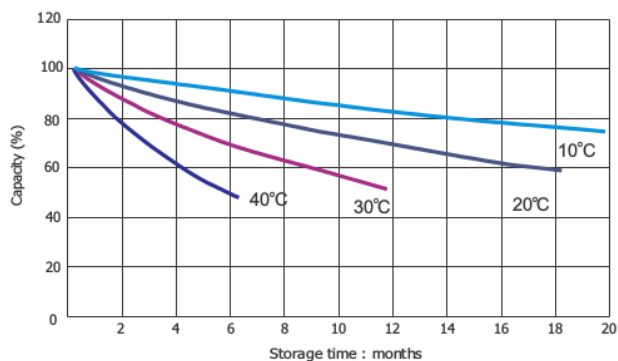
CHARGE CHARACTERISTICS



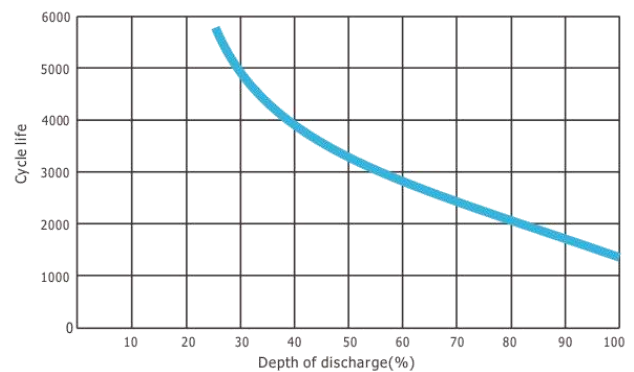
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

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

## CONSTRUCTION

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

## QUICK INSTALLATION GUIDE

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

### 1. SPACE AND DIMENSION VERIFICATION

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

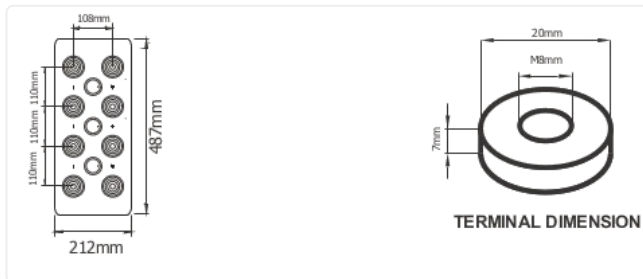
**Length:** 487 mm

**Width:** 212 mm

**Height:** 772 mm

**Total Height:** 807 mm

**Weight:** 174 kg



### 2. TERMINAL CONFIGURATION (F10)

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

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

### 3. CHARGE PARAMETERS

Cycle use: 2.35-2.40V (-5mV/°C/cell)

Float use: 2.25-2.29V (-3mV/°C/cell)

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

### 4. SAFETY AND STORAGE

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

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

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

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

### NEARBY MODELS

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

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