

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)

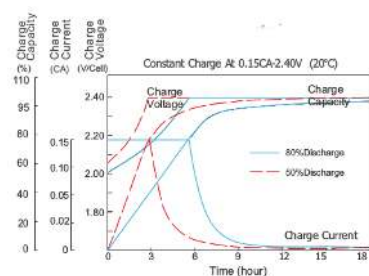
Constant Discharge Ratings (A) at 25°C

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

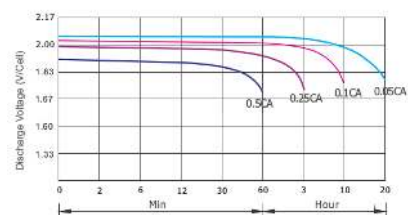
Constant Discharge Ratings (W) at 25°C

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

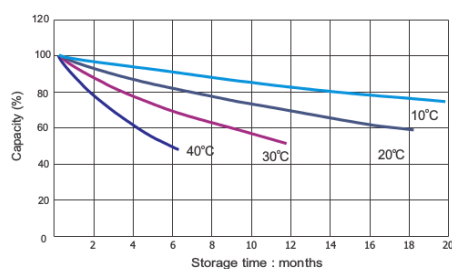
CHARGE CHARACTERISTICS



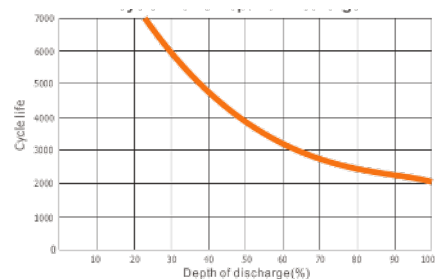
DISCHARGE CHARACTERISTIC 25°C



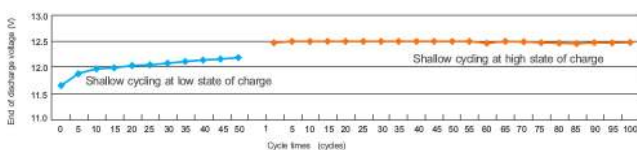
SELF DISCHARGE CHARACTERISTICS



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) 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:

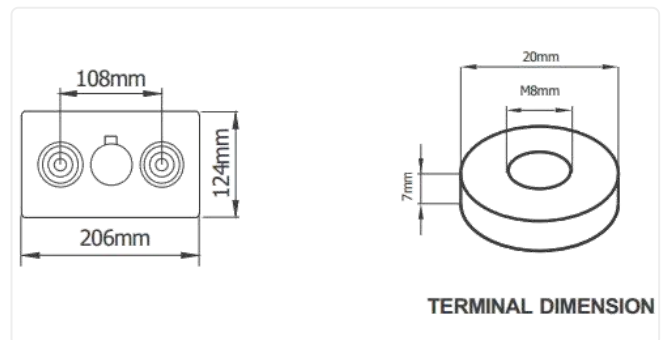
Length: 124 mm

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