

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)

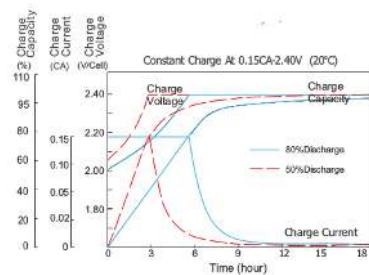
Constant Discharge Ratings (A) at 25°C

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

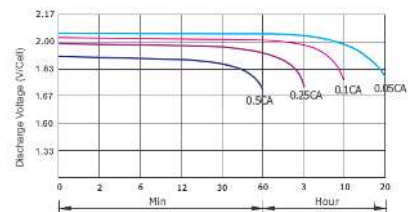
Constant Discharge Ratings (W) at 25°C

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

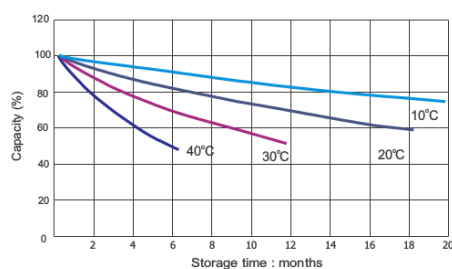
CHARGE CHARACTERISTICS



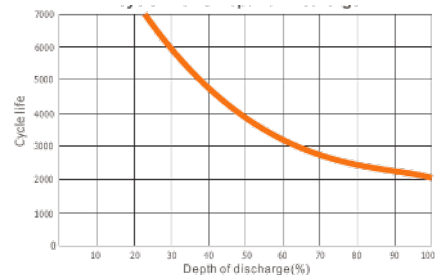
DISCHARGE CHARACTERISTIC 25°C



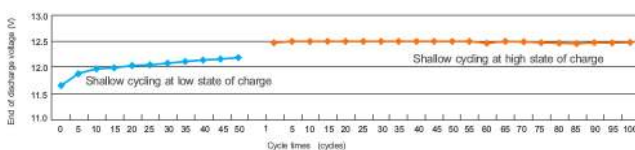
SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



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



SPECIFICATIONS

Nominal Voltage	2 V
Capacity (25°C)	200 Ah (C10)
Energy	400 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	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:

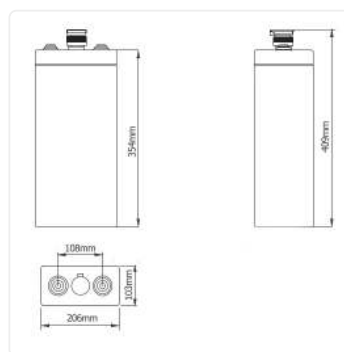
Length: 103 mm

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