

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)

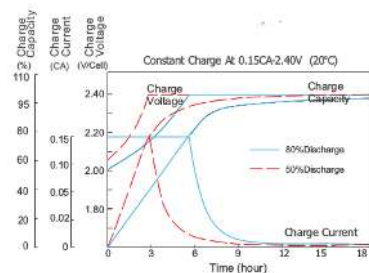
Constant Discharge Ratings (A) at 25°C

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

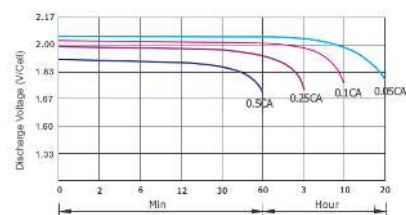
Constant Discharge Ratings (W) at 25°C

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

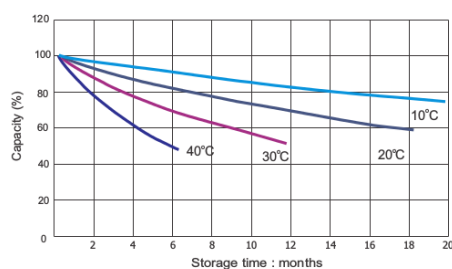
CHARGE CHARACTERISTICS



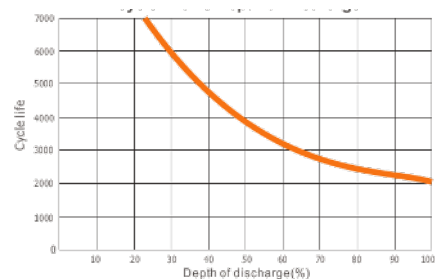
DISCHARGE CHARACTERISTIC 25°C



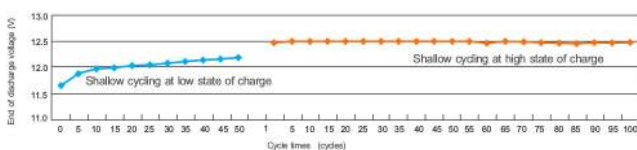
SELF DISCHARGE CHARACTERISTICS



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) 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