

The energy tank. 20+ years of proven service life.

The ROS12-150 is a 12 V, 150 Ah (10-hour rate) OPzS lead-acid battery from the Rekoser OPzS (Flooded) series. It measures 522 × 238 × 218 mm and weighs 52.5 kg, with F10 terminals. It stores 1.8 kWh and delivers up to 960 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 **RKS12-150**.

Nominal Voltage	12 V
Capacity (25°C)	150 Ah (C10)
Energy	1800 Wh
Weight	52.5 kg
Terminal	F10
Dimensions	522 × 238 × 218 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)

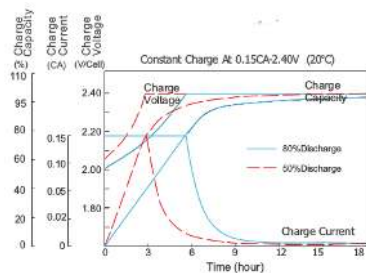
Constant Discharge Ratings (A) at 25°C

F.V / Time	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60 V	159A	123A	84A	39.3A	27.7A	15.3A	8.25A
1.65 V	155A	121A	82.7A	39.1A	27.6A	15.2A	8.23A
1.70 V	149A	117A	80.6A	38.5A	27.2A	15.2A	8.21A
1.75 V	144A	114A	79A	38.3A	27A	15.1A	8.16A
1.80 V	137A	110A	76.6A	37.1A	26.2A	15A	8.1A

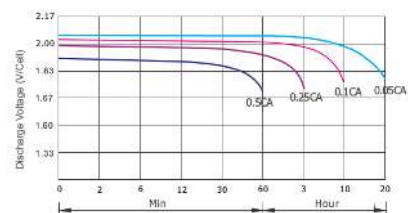
Constant Discharge Ratings (W) at 25°C

F.V / Time	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60 V	291W	230W	160W	77W	54.6W	30.4W	16.5W
1.65 V	284W	225W	157W	76.6W	54.3W	30.3W	16.5W
1.70 V	274W	219W	153W	75.5W	53.6W	30.2W	16.4W
1.75 V	264W	213W	150W	75W	53.2W	30.1W	16.3W
1.80 V	250W	205W	146W	72.7W	51.6W	23.9W	16.2W

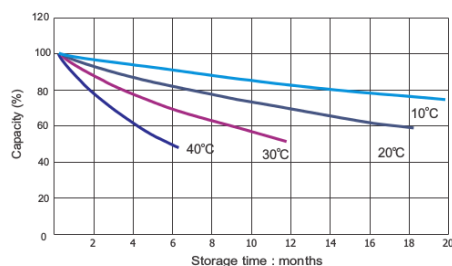
CHARGE CHARACTERISTICS



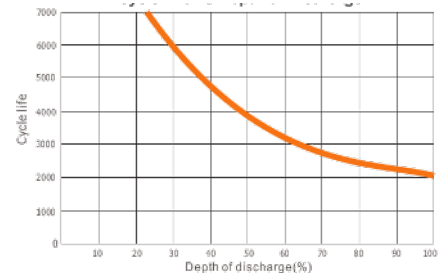
DISCHARGE CHARACTERISTIC 25oC



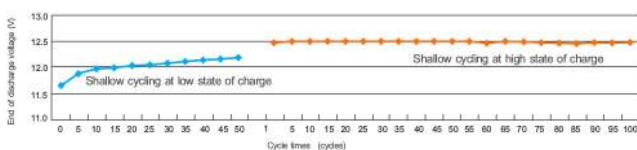
SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



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



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25°C)	150 Ah (C10)
Energy	1800 Wh
Cell number	6
Charge Voltage (25°C)	Cycle use: 14.1-14.4V (-5mV / o C/ cell) Float use: 13.2-13.5V (-3mV / o C/ cell)
Max. Charge Current	30 A
Max. Discharge Current	960 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 ROS12-150** 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: 522 mm

Width: 238 mm

Height: 218 mm

Total Height: 218 mm

Weight: 52.5 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: 14.1-14.4V (-5mV / o C/ cell)

Float use: 13.2-13.5V (-3mV / o C/ cell)

Maximum Current: Do not exceed 30 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

ROS12-100 (12 V · 100 Ah) · **ROS12-220** (12 V · 220 Ah) · [See all ROS series models](#)

Specialized Technical Support

<https://rekoser.com> | +34 958 04 29 73