

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

The ROS12-220 is a 12 V, 220 Ah (10-hour rate) OPzS lead-acid battery from the Rekoser OPzS (Flooded) series. It measures 522 × 269 × 220 mm and weighs 73.5 kg, with F12 terminals. It stores 2.64 kWh and delivers up to 1160 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 **RKS12-220**.

Nominal Voltage	12 V
Capacity (25°C)	220 Ah (C10)
Energy	2640 Wh
Weight	73.5 kg
Terminal	F12
Dimensions	522 × 269 × 220 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)

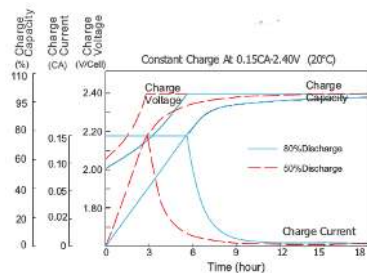
Constant Discharge Ratings (A) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
10.8 V	225A	216A	201A	161A	112A	54.4A	38.4A	22A	11.9A
10.5 V	239A	229A	212A	167A	116A	56.1A	39.6A	22.2A	12A
10.02 V	250A	239A	219A	171A	118A	56.5A	39.9A	22.3A	12A
9.9 V	260A	250A	228A	177A	121A	57.3A	40.4A	22.4A	12.1A
9.6 V	268A	257A	233A	180A	123A	57.6A	40.7A	22.4A	12.1A

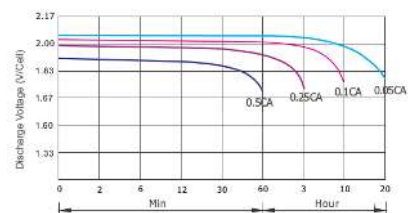
Constant Discharge Ratings (W) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
10.8 V	404W	389W	367W	301W	213W	107W	75.7W	53.8W	23.8W
10.5 V	428W	412W	387W	313W	220W	110W	78W	44.1W	23.9W
10.02 V	447W	431W	401W	320W	225W	111W	78.6W	44.3W	24.1W
9.9 V	466W	449W	417W	331W	231W	112W	79.7W	44.5W	24.1W
9.6 V	480W	463W	427W	337W	234W	113W	80.1W	44.6W	24.2W

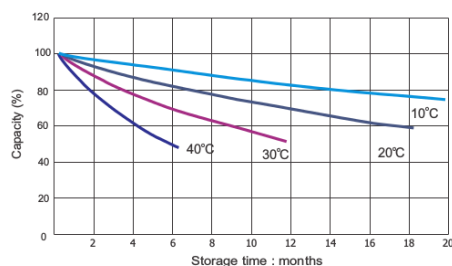
CHARGE CHARACTERISTICS



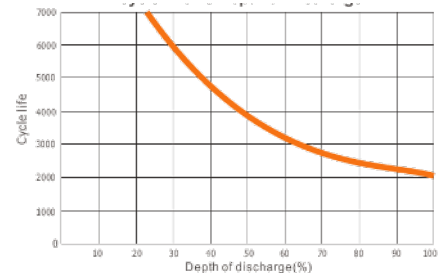
DISCHARGE CHARACTERISTIC 25°C



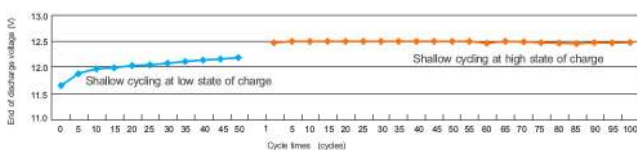
SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



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



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25°C)	220 Ah (C10)
Energy	2640 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	66 A
Max. Discharge Current	1160 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 ROS12-220** 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:

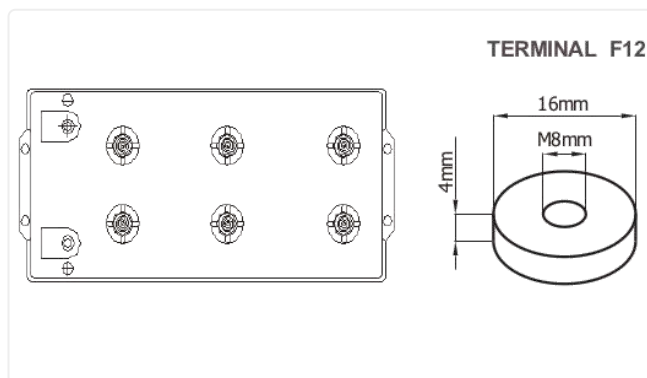
Length: 522 mm

Width: 269 mm

Height: 220 mm

Total Height: 220 mm

Weight: 73.5 kg



2. TERMINAL CONFIGURATION (F12)

Terminals: Ensure your system's connectors match the F12 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 66 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

ROS12-150 (12 V · 150 Ah) · [See all ROS series models](#)

Specialized Technical Support

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