

The best of lead. Maintenance-free with extreme service life.

The ROV12-100 is a 12 V, 100 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 409 × 176 × 223 mm and weighs 35 kg, with F10 terminals. It stores 1.2 kWh and delivers up to 625 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly RKV12-100.

MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks



Nominal Voltage	12 V
Capacity (25°C)	100 Ah (C10)
Energy	1200 Wh
Weight	35 kg
Terminal	F10
Dimensions	409 × 176 × 223 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

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

GRAPHICS (25°C)

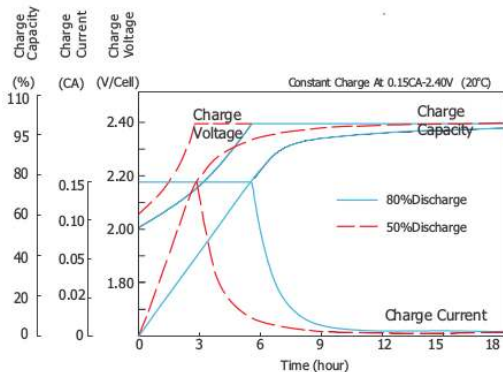
Constant Discharge Ratings (A) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
10.8 V	102A	101A	92.9A	74.1A	48.4A	24.1A	13.3A	10A	5.3A
10.5 V	109A	107A	98.1A	76.9A	50A	24.8A	17.8A	10.1A	5.34A
10.2 V	113A	112A	102A	78.9A	51A	25A	17.9A	10.1A	5.37A
9.9 V	118A	116A	105A	81.3A	52.3A	25.1A	18A	10.2A	5.38A
9.6 V	122A	120A	108A	83A	53.1A	25.3A	18.2A	10.2A	5.4A

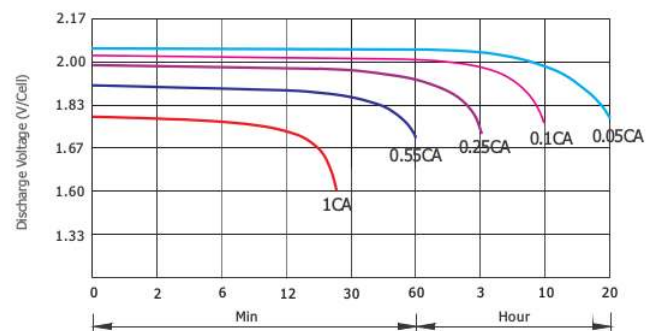
Constant Discharge Ratings (W) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
10.8 V	179W	181W	170W	139W	92W	47.1W	34W	19.9W	10.6W
10.5 V	190W	192W	179W	144W	94.9W	48.6W	35.1W	20W	10.7W
10.2 V	199W	201W	186W	147W	96.9W	48.9W	35.3W	20.2W	10.7W
9.9 V	207W	210W	193W	152W	99.4W	49.3W	35.6W	20.2W	10.8W
9.6 V	214W	216W	198W	155W	101W	49.6W	35.8W	20.3W	10.8W

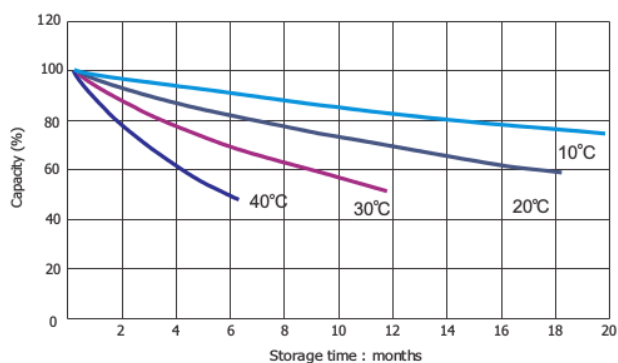
CHARGE CHARACTERISTICS



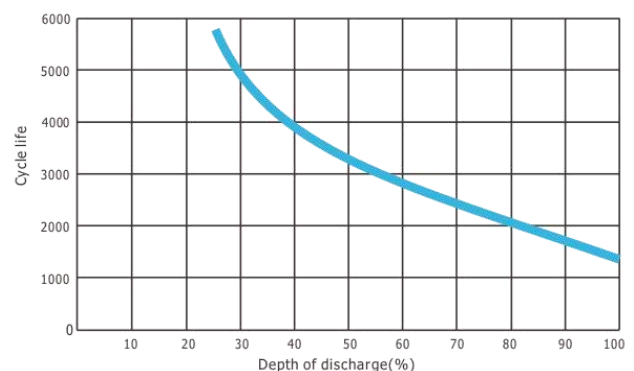
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25°C)	100 Ah (C10)
Energy	1200 Wh
Cell number	6
Charge Voltage (25°C)	Cycle use: 13.80-14.10V (-30mV/°C/cell) Float use: 13.50-13.80V (-18mV/°C/cell)
Max. Charge Current	20 A
Max. Discharge Current	625 A
Internal Resistance	6.3 mΩ
Self Discharge	2 % 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	ABS(UL94-V0 optional)
Cover	ABS (Flame Retardant Optional)
Electrolyte	Immobilized Gel
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 ROV12-100** 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:

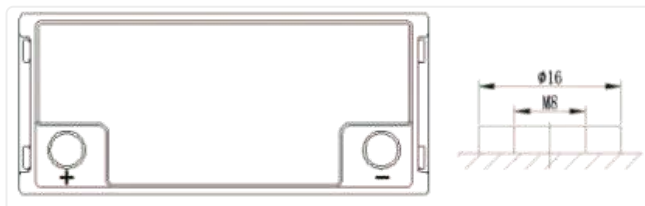
Length: 409 mm

Width: 176 mm

Height: 223 mm

Total Height: 223 mm

Weight: 35 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: 13.80-14.10V (-30mV/°C/cell)

Float use: 13.50-13.80V (-18mV/°C/cell)

Maximum Current: Do not exceed 20 A of charge.

4. SAFETY AND STORAGE

Maintenance: Immobilised gel and tubular plate: sealed, no water topping up.

Position: Upright, or horizontal on a rack.

Charging: Keep to the stated charge voltage: gel is sensitive to overcharging.

Storage: Store charged, in a cool and dry place, and recharge periodically.

NEARBY MODELS

ROV12-75 (12 V · 75 Ah) · **ROV12-150** (12 V · 150 Ah) · [See all ROV series models](#)

Specialized Technical Support

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