

Deep cycling with full recovery from deep discharge.

The RDG12-225 is a 12 V, 225 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 522 × 238 × 218 mm and weighs 64 kg, with F13 terminals. It stores 2.7 kWh and delivers up to 1000 A. Deep cycling with full recovery from deep discharge. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and UPS and Data Centers.

Formerly **RKG12-225**.

Nominal Voltage	12 V
Capacity (25°C)	225 Ah (C10)
Energy	2700 Wh
Weight	64 kg
Terminal	F13
Dimensions	522 × 238 × 218 mm

MAIN ADVANTAGES

- ✓ **Recovery:** Superior performance after deep discharges
- ✓ **Stable:** Low electrolyte stratification
- ✓ **Longevity:** Excellent cycle life in harsh conditions
- ✓ **Gel Tech:** Thixotropic gel electrolyte

12
YEARS

LONG LIFE DESIGN

* EUROBAT CLASSIFICATION: 10-12 Years (High Performance).

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**



UPS AND DATA CENTERS

QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

GRAPHICS (25°C)

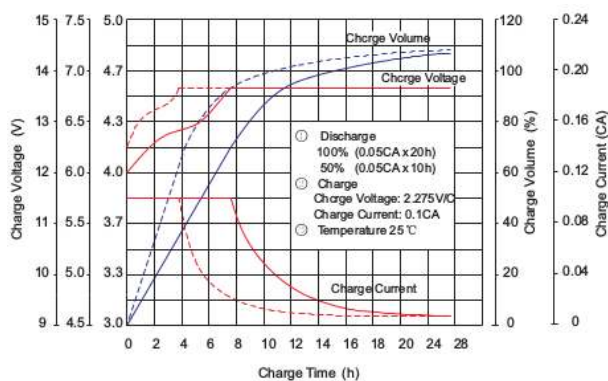
Constant Discharge Ratings (A) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	336A	304A	280A	199A	115A	58.1A	39A	21.9A	11.5A
10.80 V	393A	338A	308A	211A	121A	60.1A	39.9A	22.5A	11.8A
10.50 V	444A	372A	330A	221A	125A	61.3A	40.9A	23A	12A
10.20 V	511A	400A	355A	228A	127A	62.3A	41.4A	23.3A	12.3A
10.02 V	572A	441A	376A	237A	130A	63A	41.8A	23.6A	12.6A
9.60 V	642A	478A	399A	248A	134A	63.8A	42.3A	23.9A	12.8A

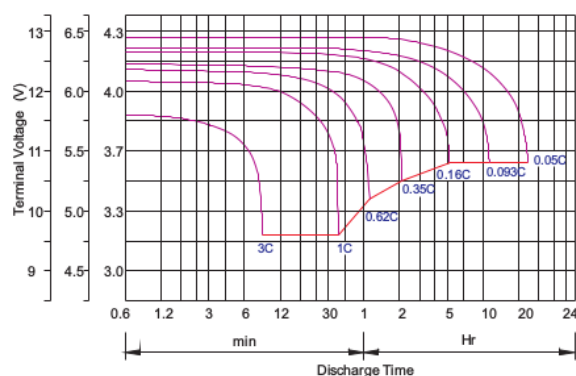
Constant Discharge Ratings (W) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	633W	579W	536W	383W	252W	114W	77.1W	43.8W	23.2W
10.80 V	727W	635W	582W	402W	261W	117W	78.4W	44.7W	23.6W
10.50 V	812W	690W	618W	416W	267W	118W	79.6W	45.2W	23.9W
10.20 V	922W	735W	659W	428W	270W	119W	80W	45.5W	24.2W
10.02 V	1020W	800W	691W	441W	275W	120W	80.2W	45.8W	24.5W
9.60 V	1129W	859W	728W	459W	281W	120W	80.6W	46.1W	24.9W

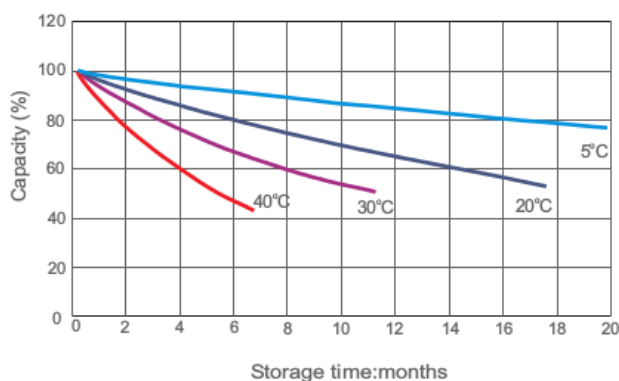
CHARGE CHARACTERISTICS



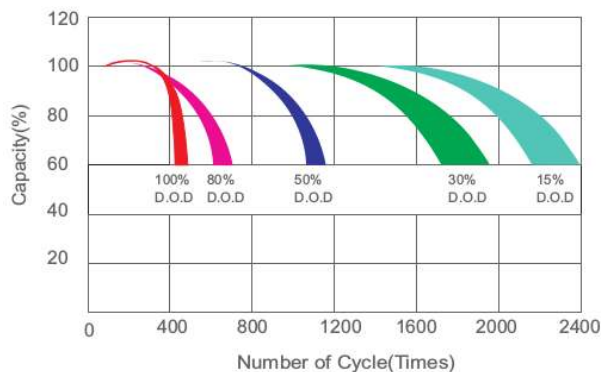
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC OF CYCLIC USE



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25°C)	225 Ah (C10)
Energy	2700 Wh
Cell number	6
Charge Voltage (25°C)	Cycle use: 14.6-14.8V (-30mV/C), max. Current 2.1A Float use: 13.6-13.8V (-20mV/C)
Max. Charge Current	56 A
Max. Discharge Current	1000 A
Internal Resistance	25 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	ABS (Flame Retardant Optional)
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 RDG12-225** 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:

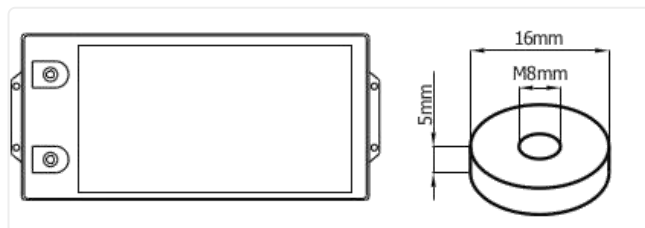
Length: 522 mm

Width: 238 mm

Height: 218 mm

Total Height: 222 mm

Weight: 64 kg



2. TERMINAL CONFIGURATION (F13)

Terminals: Ensure your system's connectors match the F13 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: 14.6-14.8V (-30mV/C), max. Current 2.1A

Float use: 13.6-13.8V (-20mV/C)

Maximum Current: Do not exceed 56 A of charge.

4. SAFETY AND STORAGE

Maintenance: Sealed gel battery, maintenance-free and leak-proof.

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

Cycling: Recharge fully after every discharge; never leave it discharged.

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

NEARBY MODELS

RDG12-200 (12 V · 200 Ah) · **RDG12-250** (12 V · 250 Ah) · [See all RDG series models](#)

Specialized Technical Support

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