

Deep cycling with full recovery from deep discharge.

The RDG12-100 is a 12 V, 100 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 328 × 171 × 214 mm and weighs 30 kg, with F14 terminals. It stores 1.2 kWh and delivers up to 800 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 **RKG12-100**.

MAIN ADVANTAGES

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



Nominal Voltage	12 V
Capacity (25°C)	100 Ah (C10)
Energy	1200 Wh
Weight	30 kg
Terminal	F14
Dimensions	328 × 171 × 214 mm

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)

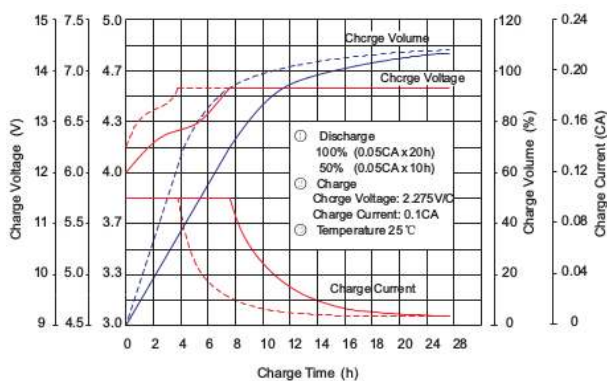
Constant Discharge Ratings (A) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	157A	141A	128A	90.2A	58.3A	25.8A	17.3A	9.74A	5.13A
10.80 V	184A	157A	141A	95.6A	60.9A	26.7A	17.7A	10A	5.25A
10.50 V	208A	172A	151A	100A	63A	27.2A	18.2A	10.2A	5.35A
10.20 V	239A	185A	163A	104A	64.3A	27.7A	18.4A	10.3A	5.45A
10.02 V	268A	204A	172A	108A	65.8A	28A	18.6A	10.5A	5.58A
9.60 V	300A	221A	183A	113A	67.6A	28.3A	18.8A	10.6A	5.71A

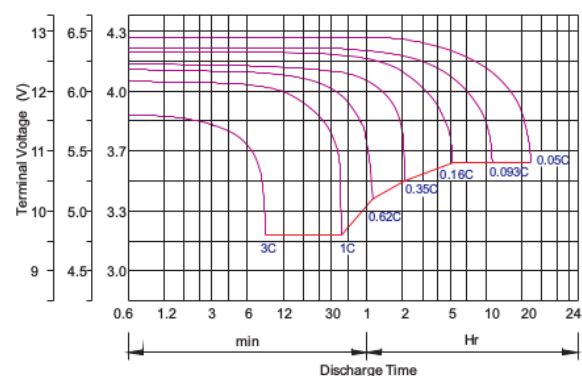
Constant Discharge Ratings (W) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	296W	268W	245W	174W	113W	50.7W	34.3W	19.5W	10.3W
10.80 V	340W	294W	267W	182W	117W	52W	34.8W	19.9W	10.5W
10.50 V	380W	320W	283W	189W	120W	52.6W	35.4W	20.1W	10.6W
10.20 V	431W	340W	302W	194W	121W	52.9W	35.5W	20.2W	10.7W
10.02 V	477W	370W	316W	200W	123W	53.2W	35.6W	20.3W	10.9W
9.60 V	528W	398W	333W	208W	126W	53.5W	35.8W	20.5W	11.1W

CHARGE CHARACTERISTICS



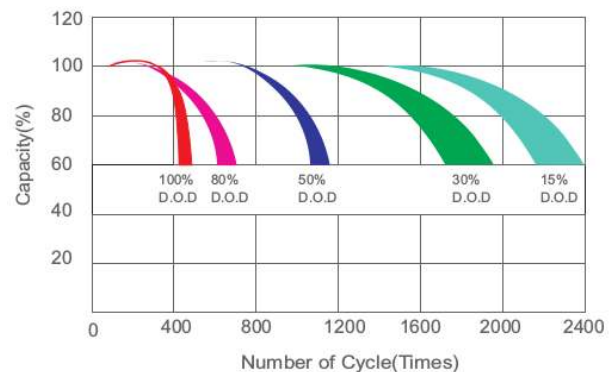
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC OF CYCLIC USE



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25°C)	100 Ah (C10), 105 Ah (C20)
Energy	1200 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	25 A
Max. Discharge Current	800 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 RDG12-100** 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:

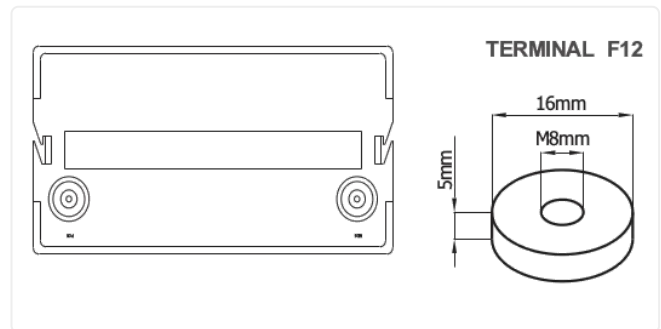
Length: 328 mm

Width: 171 mm

Height: 214 mm

Total Height: 220 mm

Weight: 30 kg



2. TERMINAL CONFIGURATION (F14)

Terminals: Ensure your system's connectors match the F14 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 25 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

RDG12-90 (12 V · 90 Ah) · **RDG12-120** (12 V · 120 Ah) · [See all RDG series models](#)

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