

Deep cycling with full recovery from deep discharge.

The RDG12-80 is a 12 V, 80 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 350 × 167 × 179 mm and weighs 23 kg, with F11 terminals. It stores 960 Wh and delivers up to 720 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 **RKG12-80**.

Nominal Voltage	12 V
Capacity (25°C)	80 Ah (C10)
Energy	960 Wh
Weight	23 kg
Terminal	F11
Dimensions	350 × 167 × 179 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)

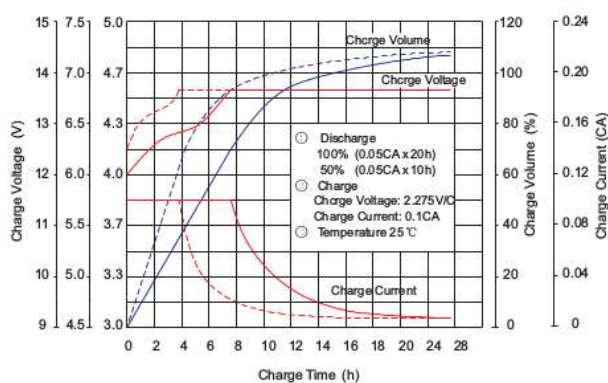
Constant Discharge Ratings (A) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	126A	113A	103A	72.2A	46.6A	20.7A	13.9A	7.79A	4.1A
10.80 V	147A	125A	113A	76.5A	48.7A	21.4A	14.2A	8A	4.2A
10.50 V	166A	138A	121A	80A	50.4A	21.8A	14.5A	8.16A	4.28A
10.20 V	191A	148A	130A	82.9A	51.4A	22.1A	14.7A	8.27A	4.36A
10.02 V	214A	163A	138A	86.1A	52.7A	22.4A	14.8A	8.38A	4.46A
9.60 V	240A	177A	146A	90.1A	54A	22.7A	15.1A	8.48A	4.57A

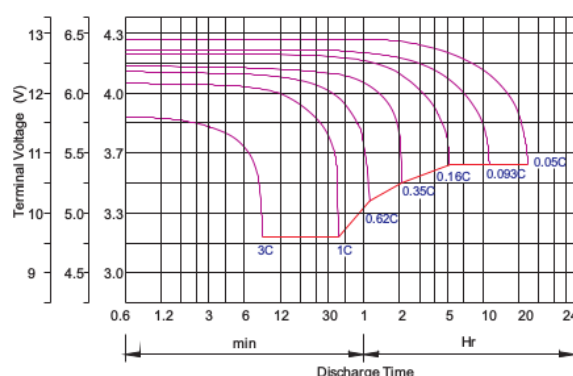
Constant Discharge Ratings (W) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	237W	214W	196W	139W	90.4W	40.6W	27.4W	15.6W	8.24W
10.80 V	272W	235W	213W	146W	93.6W	41.6W	27.9W	15.9W	8.39W
10.50 V	304W	256W	227W	151W	95.9W	42W	28.3W	16.1W	8.49W
10.20 V	345W	272W	241W	155W	97.1W	42.4W	28.4W	16.2W	8.6W
10.02 V	382W	296W	253W	160W	98.7W	42.6W	28.5W	16.3W	8.72W
9.60 V	423W	318W	267W	166W	101W	42.8W	28.7W	16.4W	8.87W

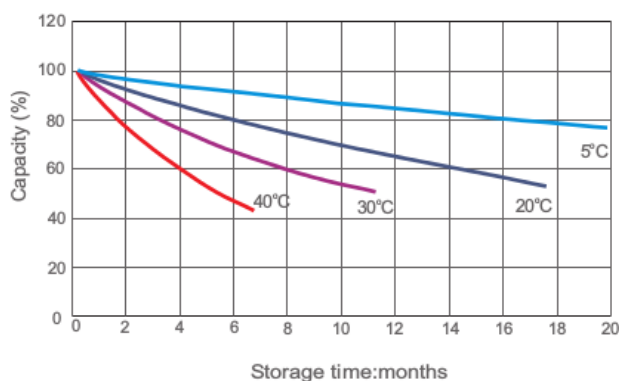
CHARGE CHARACTERISTICS



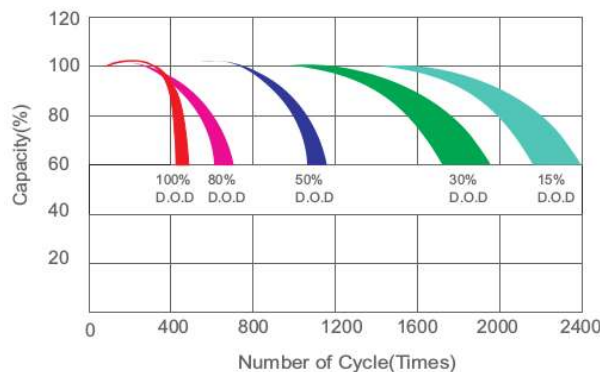
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC OF CYCLIC USE



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25°C)	80 Ah (C10), 84 Ah (C20)
Energy	960 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	24 A
Max. Discharge Current	720 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 RDG12-80** 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: 350 mm

Width: 167 mm

Height: 179 mm

Total Height: 179 mm

Weight: 23 kg

2. TERMINAL CONFIGURATION (F11)

Terminals: Ensure your system's connectors match the F11 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 24 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

RDG12-70 (12 V · 70 Ah) · **RDG12-90** (12 V · 90 Ah) · [See all RDG series models](#)

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