

Deep cycling with full recovery from deep discharge.

The RDG12-120 is a 12 V, 120 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 410 × 176 × 227 mm and weighs 34 kg, with F12 terminals. It stores 1.44 kWh and delivers up to 960 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 **RKG12-120**.

Nominal Voltage	12 V
Capacity (25°C)	120 Ah (C10)
Energy	1440 Wh
Weight	34 kg
Terminal	F12
Dimensions	410 × 176 × 227 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	189A	169A	154A	108A	69.9A	31A	20.8A	11.7A	6.15A
10.80 V	220A	188A	169A	115A	73.1A	32A	21.3A	12A	6.3A
10.50 V	249A	207A	181A	120A	75.6A	32.7A	21.8A	12.2A	6.42A
10.20 V	287A	222A	195A	124A	77.1A	33.2A	22.1A	12.4A	6.54A
10.02 V	321A	245A	207A	129A	79A	33.6A	22.3A	12.6A	6.7A
9.60 V	360A	266A	219A	135A	81.1A	34A	22.6A	12.7A	6.85A

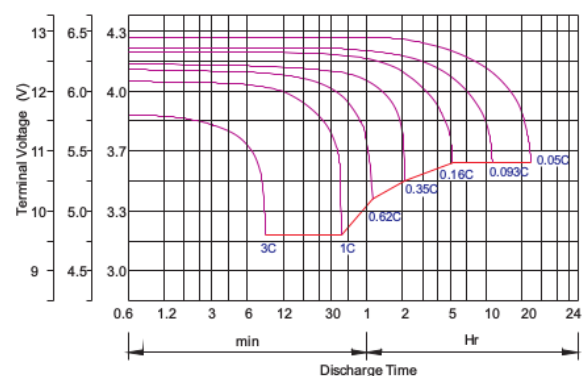
Constant Discharge Ratings (W) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	355W	321W	294W	208W	136W	60.9W	41.1W	23.4W	12.4W
10.80 V	408W	353W	320W	219W	140W	62.4W	41.8W	23.8W	12.6W
10.50 V	456W	384W	340W	227W	144W	63.1W	42.5W	24.1W	12.7W
10.20 V	518W	408W	362W	233W	146W	63.5W	42.7W	24.3W	12.9W
10.02 V	573W	445W	380W	240W	148W	63.8W	42.8W	24.4W	13.1W
9.60 V	634W	477W	400W	250W	151W	64.2W	43W	24.6W	13.3W

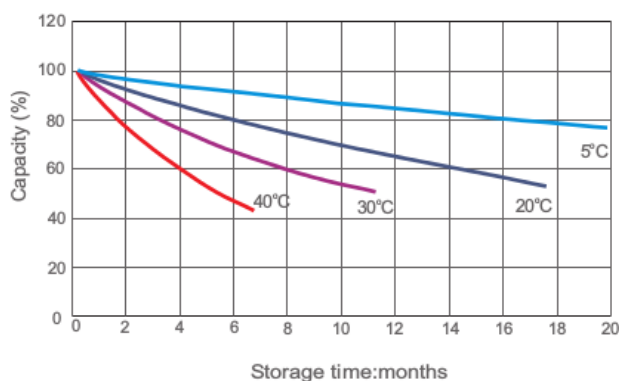
CHARGE CHARACTERISTICS



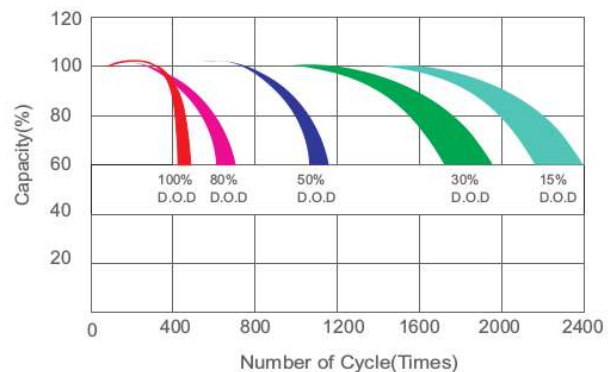
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC OF CYCLIC USE



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25°C)	120 Ah (C10)
Energy	1440 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	30 A
Max. Discharge Current	960 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 RDG12-120** 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:

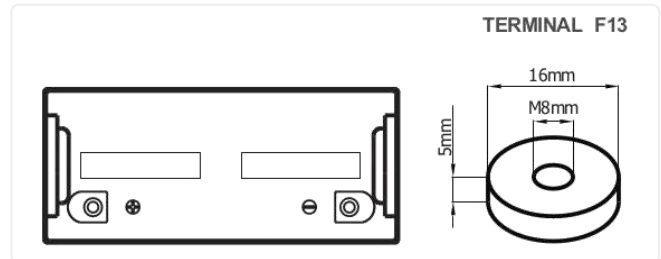
Length: 410 mm

Width: 176 mm

Height: 227 mm

Total Height: 227 mm

Weight: 34 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: 14.6-14.8V (-30mV/C), max. Current 2.1A

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

Maximum Current: Do not exceed 30 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

RDG12-100 (12 V · 100 Ah) · **RDG12-135** (12 V · 135 Ah) · [See all RDG series models](#)

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