

Deep cycling with full recovery from deep discharge.

The RDG12-135 is a 12 V, 135 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 342 × 172 × 273 mm and weighs 42 kg, with F12 terminals. It stores 1.62 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 **RKG12-135**.

Nominal Voltage	12 V
Capacity (25°C)	135 Ah (C10)
Energy	1620 Wh
Weight	42 kg
Terminal	F12
Dimensions	342 × 172 × 273 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)

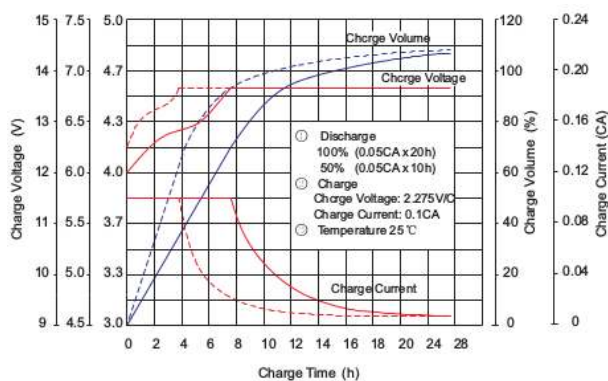
Constant Discharge Ratings (A) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	212A	190A	173A	122A	78.7A	34.9A	23.4A	13.1A	6.92A
10.80 V	248A	211A	190A	129A	82.2A	36.1A	23.9A	13.5A	7.08A
10.50 V	280A	232A	204A	135A	85A	36.8A	24.5A	13.8A	7.22A
10.20 V	323A	250A	220A	140A	86.8A	37.4A	24.9A	14A	7.36A
10.02 V	361A	275A	232A	145A	88.9A	37.8A	25.1A	14.1A	7.53A
9.60 V	405A	299A	247A	152A	91.2A	38.3A	25.4A	14.3A	7.71A

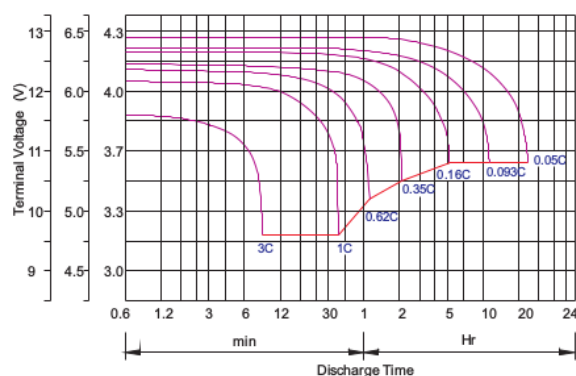
Constant Discharge Ratings (W) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	400W	362W	331W	234W	153W	69.5W	46.3W	26.3W	13.9W
10.80 V	459W	397W	360W	246W	158W	70.2W	47W	26.8W	14.2W
10.50 V	513W	432W	382W	255W	162W	71W	47.8W	27.1W	14.3W
10.20 V	582W	459W	407W	262W	164W	71.5W	48W	27.3W	14.5W
10.02 V	645W	500W	427W	270W	167W	71.8W	48.1W	27.5W	14.7W
9.60 V	713W	537W	450W	281W	170W	72.2W	48.4W	27.6W	15W

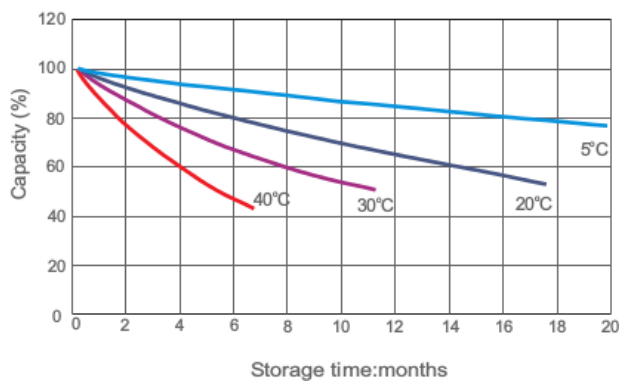
CHARGE CHARACTERISTICS



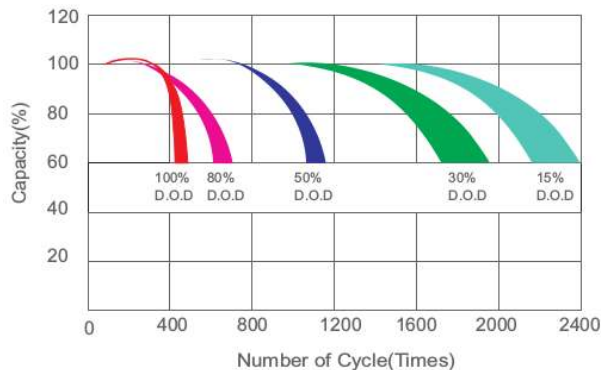
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC OF CYCLIC USE



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25°C)	135 Ah (C10)
Energy	1620 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	33.5 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 RDG12-135** 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:

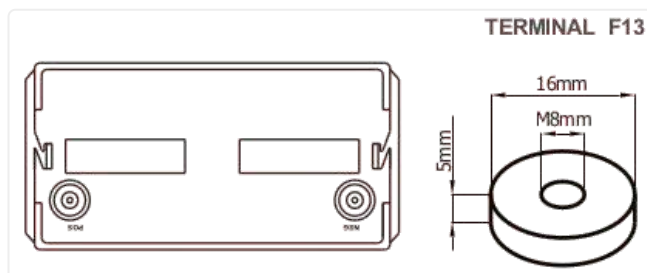
Length: 342 mm

Width: 172 mm

Height: 273 mm

Total Height: 277 mm

Weight: 42 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 33.5 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

RDG12-120 (12 V · 120 Ah) · **RDG12-150** (12 V · 150 Ah) · [See all RDG series models](#)

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