

Endurance for frequent charge/discharge cycling.

The RDC12-250 is a 12 V, 250 Ah (10-hour rate) AGM Deep Cycle lead-acid battery from the Rekoser Deep Cycle (AGM) series. It measures 520 × 269 × 220 mm and weighs 70 kg, with F13 terminals. It stores 3 kWh and delivers up to 1000 A. Endurance for frequent charge/discharge cycling. Typical applications: Solar/Wind Energy Systems and Light Electric Vehicles.

Formerly **RKC12-250**.

Nominal Voltage	12 V
Capacity (25°C)	250 Ah (C10)
Energy	3000 Wh
Weight	70 kg
Terminal	F13
Dimensions	520 × 269 × 220 mm

MAIN ADVANTAGES

- ✓ **Cycling:** Optimized for more than 400 cycles at 80% DOD
- ✓ **Materials:** Specialized active material and thick plates
- ✓ **Versatility:** Suitable for both motive and stationary use
- ✓ **Efficiency:** High recharge acceptance

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**



LIGHT ELECTRIC VEHICLES

QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC 60896-21/22

JIS C8704

GB/T19639

GRAPHICS (25°C)

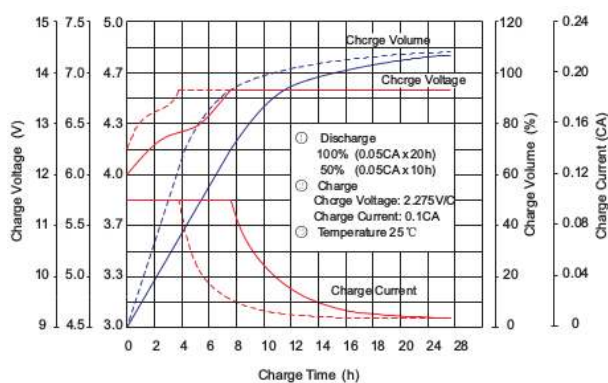
Constant Discharge Ratings (A) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	299A	271A	249A	177A	115A	51.7A	34.6A	19.5A	10.3A
10.80 V	349A	301A	273A	187A	121A	53.4A	35.5A	20A	10.5A
10.50 V	395A	331A	293A	196A	125A	54.5A	36.4A	20.4A	10.7A
10.20 V	454A	356A	316A	203A	127A	55.3A	36.8A	20.7A	10.9A
10.02 V	509A	392A	334A	211A	130A	56A	37.1A	20.9A	11.2A
9.60 V	570A	425A	355A	221A	134A	56.7A	37.6A	21.2A	11.4A

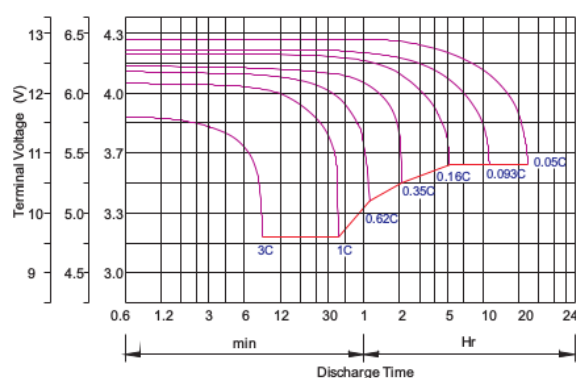
Constant Discharge Ratings (W) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	563W	514W	476W	340W	224W	91.3W	61.7W	35W	18.5W
10.80 V	646W	564W	517W	357W	232W	93.6W	62.7W	35.8W	18.9W
10.50 V	722W	614W	549W	370W	237W	94.6W	63.7W	36.2W	19.1W
10.20 V	820W	653W	585W	380W	240W	95.3W	64W	36.4W	19.3W
10.02 V	907W	711W	614W	392W	244W	95.8W	64.1W	36.6W	19.6VW
9.60 V	1004W	764W	647W	408W	249W	96.3W	64.5W	36.9W	19.9W

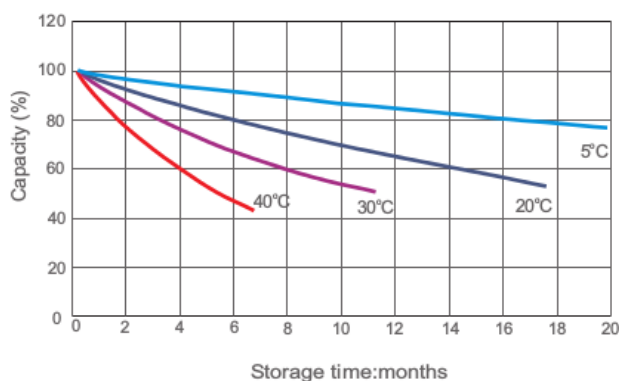
CHARGE CHARACTERISTICS



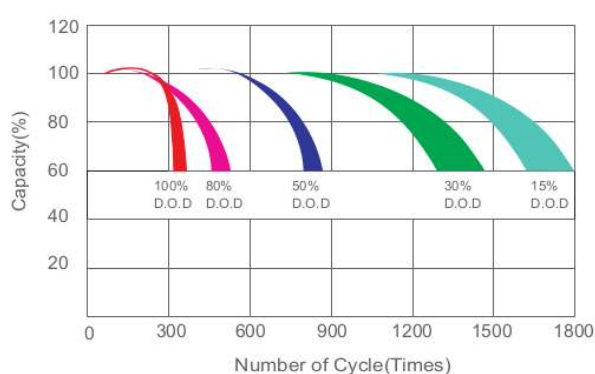
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTICS OF CYCLIC USE



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25°C)	250 Ah (C10), 260 Ah (C20)
Energy	3000 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	60 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 RDC12-250** 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: 520 mm

Width: 269 mm

Height: 220 mm

Total Height: 220 mm

Weight: 70 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 60 A of charge.

4. SAFETY AND STORAGE

Maintenance: Sealed AGM technology, maintenance-free and leak-proof.

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

Position: Can be installed in any orientation, except inverted.

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

NEARBY MODELS

RDC12-150 (12 V · 150 Ah) · **RDC12-260** (12 V · 260 Ah) · [See all RDC series models](#)

Specialized Technical Support

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