

Endurance for frequent charge/discharge cycling.

The RDC12-100 is a 12 V, 100 Ah (10-hour rate) AGM Deep Cycle lead-acid battery from the Rekoser Deep Cycle (AGM) 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. Endurance for frequent charge/discharge cycling. Typical applications: Solar/Wind Energy Systems and Light Electric Vehicles.

Formerly **RKC12-100**.

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

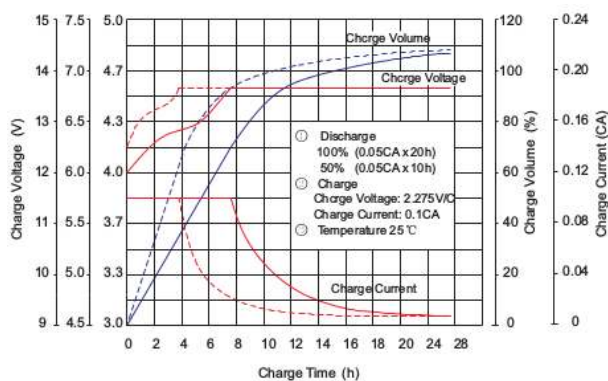
Constant Discharge Ratings (A) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	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

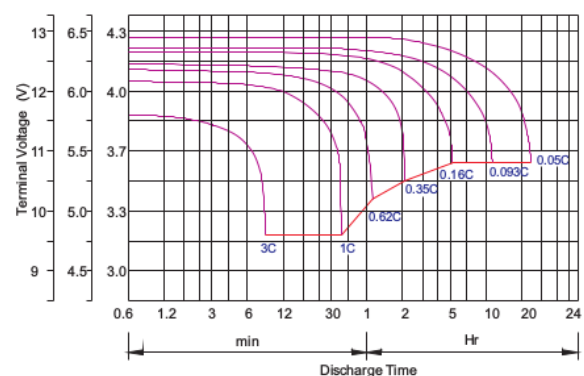
Constant Discharge Ratings (W) at 25°C

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

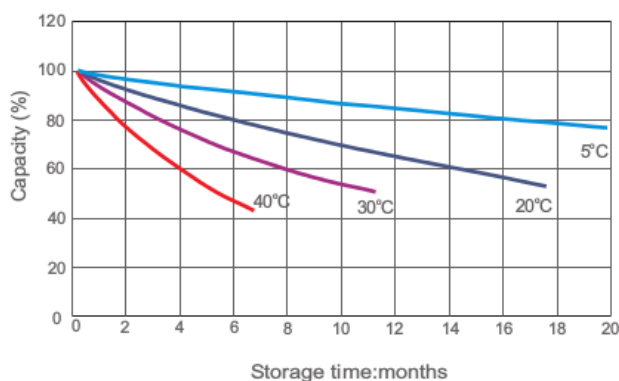
CHARGE CHARACTERISTICS



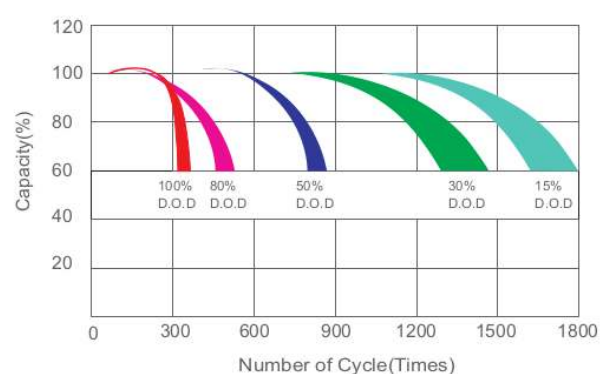
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTICS 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	30 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 RDC12-100** 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 30 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

RDC12-90 (12 V · 90 Ah) · **RDC12-120** (12 V · 120 Ah) · [See all RDC series models](#)

The same battery in other series: **RFC12-100** (RFC Series – Front Terminal Deep Cycle)

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