

Endurance for frequent charge/discharge cycling.

The RDC12-90 is a 12 V, 90 Ah (10-hour rate) AGM Deep Cycle lead-acid battery from the Rekoser Deep Cycle (AGM) series. It measures 306 × 169 × 208 mm and weighs 27.5 kg, with F14 terminals. It stores 1.08 kWh and delivers up to 720 A. Endurance for frequent charge/discharge cycling. Typical applications: Solar/Wind Energy Systems and Light Electric Vehicles.

Formerly **RKC12-90**.

Nominal Voltage	12 V
Capacity (25°C)	90 Ah (C10)
Energy	1080 Wh
Weight	27.5 kg
Terminal	F14
Dimensions	306 × 169 × 208 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)

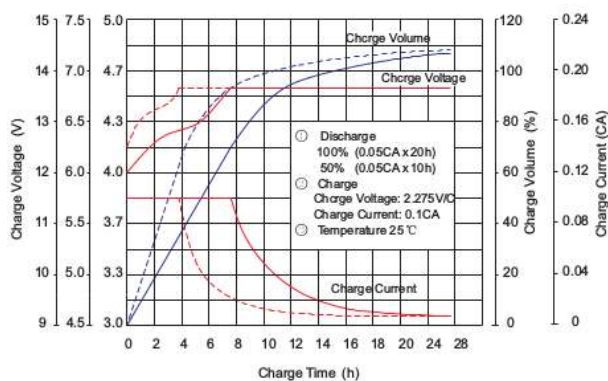
Constant Discharge Ratings (A) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	142A	127A	116A	81.2A	52.4A	23.3A	15.6A	8.77A	4.61A
10.80 V	165A	141A	127A	86A	54.8A	24A	16A	9A	4.72A
10.50 V	187A	155A	136A	90A	56.7A	24.5A	16.4A	9.18A	4.82A
10.20 V	215A	167A	146A	93.2A	57.9A	24.9A	16.6A	9.31A	4.91A
10.02 V	241A	184A	155A	96.8A	59.2A	25.2A	16.7A	9.42A	5.02A
9.60 V	270A	199A	165A	99.9A	60.8A	25.5A	16.9A	9.55A	5.14A

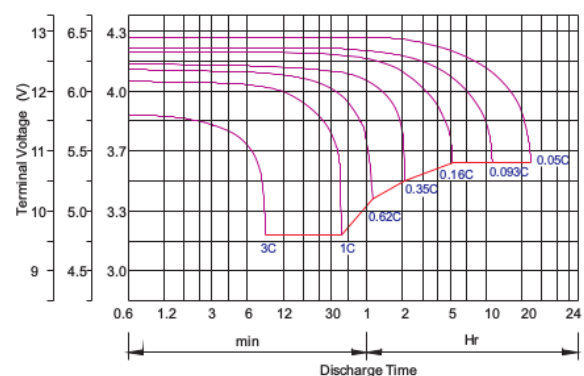
Constant Discharge Ratings (W) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	267W	241W	221W	156W	102W	45.7W	30.8W	17.5W	9.27W
10.80 V	306W	264W	240W	164W	105W	46.8W	31.3W	17.9W	9.43W
10.50 V	342W	288W	255W	170W	108W	47.3W	31.8W	18.1W	9.55W
10.20 V	388W	306W	272W	175W	109W	47.7W	32W	18.2W	9.67W
10.02 V	430W	333W	285W	180W	111W	47.9W	32.1W	18.3W	9.82W
9.60 V	475W	358W	300W	187W	113W	48.1W	32.2W	18.4W	10W

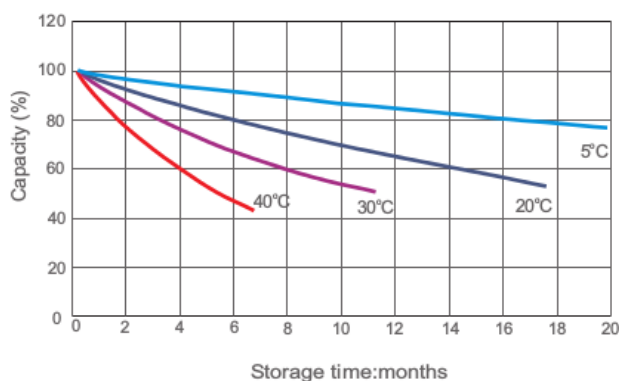
CHARGE CHARACTERISTICS



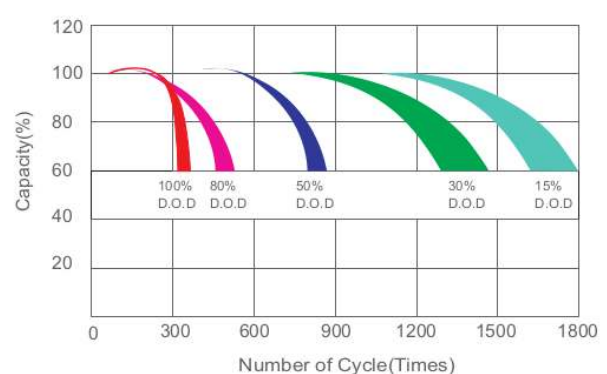
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTICS OF CYCLIC USE



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25°C)	90 Ah (C10)
Energy	1080 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	27 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 RDC12-90** 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:

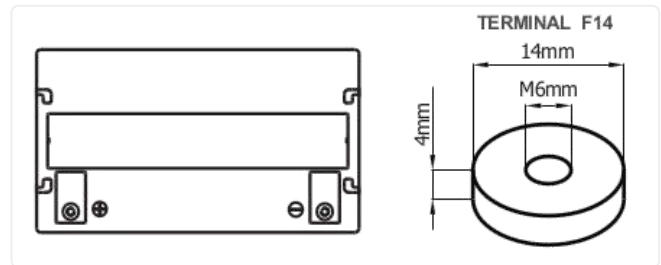
Length: 306 mm

Width: 169 mm

Height: 208 mm

Total Height: 212 mm

Weight: 27.5 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 27 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

RDC12-80 (12 V · 80 Ah) · **RDC12-100** (12 V · 100 Ah) · [See all RDC series models](#)

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