

Endurance for frequent charge/discharge cycling.

The RDC12-55 is a 12 V, 55 Ah (10-hour rate) AGM Deep Cycle lead-acid battery from the Rekoser Deep Cycle (AGM) series. It measures 229 × 138 × 208 mm and weighs 16.5 kg, with F11 terminals. It stores 660 Wh and delivers up to 500 A. Endurance for frequent charge/discharge cycling. Typical applications: Solar/Wind Energy Systems and Light Electric Vehicles.

Formerly **RKC12-55**.

Nominal Voltage	12 V
Capacity (25°C)	55 Ah (C10)
Energy	660 Wh
Weight	16.5 kg
Terminal	F11
Dimensions	229 × 138 × 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)

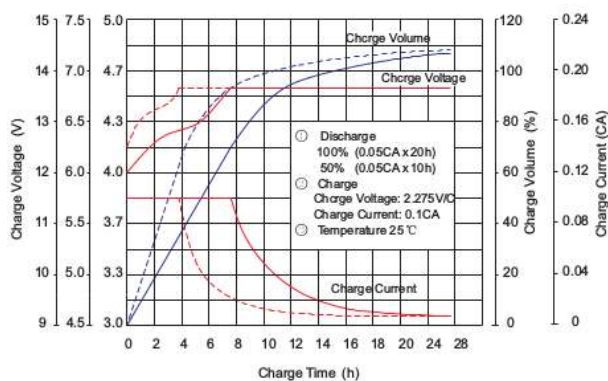
Constant Discharge Ratings (A) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	86.5A	77.5A	70.6A	49.6A	32A	14.2A	9.53A	5.36A	2.82A
10.80 V	101A	86.1A	77.5A	52.6A	33.5A	14.7A	9.76A	5.5A	2.89A
10.50 V	114A	94.7A	83.1A	55A	34.6A	15A	10A	5.61A	2.94A
10.20 V	131A	102A	89.5A	57A	35.4A	15.2A	10.1A	5.69A	3A
10.02 V	147A	112A	94.7A	59.2A	36.2A	15.4A	10.2A	5.76A	3.07A
9.60 V	165A	122A	101A	61.9A	37.2A	15.6A	10.4A	5.83A	3.14A

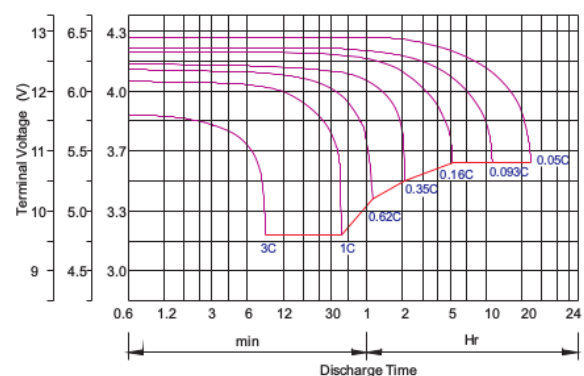
Constant Discharge Ratings (W) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	163W	147W	135W	95.5W	62.2W	27.9W	18.8W	10.7W	5.67W
10.80 V	187W	162W	147W	100W	64.3W	28.6W	19.2W	10.9W	5.77W
10.50 V	209W	176W	156W	104W	65.9W	28.9W	19.4W	11W	5.83W
10.20 V	237W	187W	166W	107W	66.8W	29.1W	19.5W	11.1W	5.91W
10.02 V	263W	204W	174W	110W	67.9W	29.3W	19.6W	11.2W	6W
9.60 V	291W	219W	183W	114W	69.3W	29.4W	19.7W	11.3W	6.1W

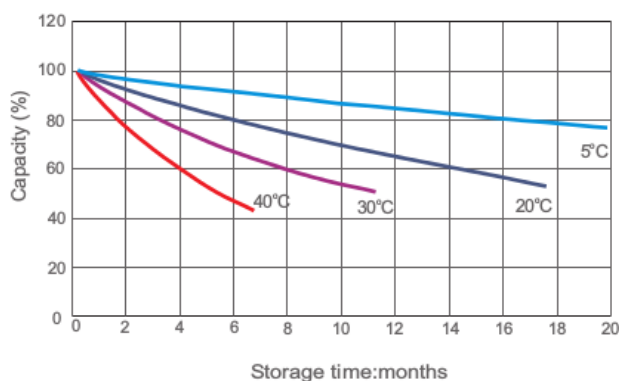
CHARGE CHARACTERISTICS



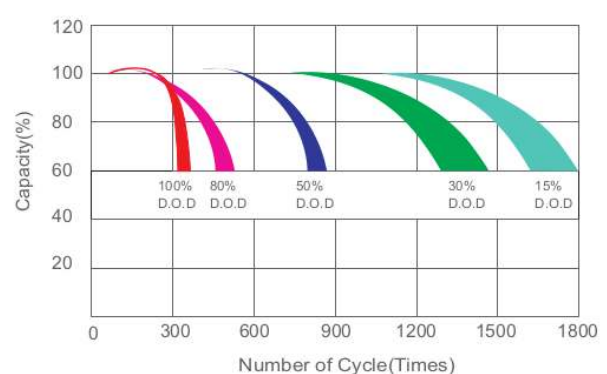
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTICS OF CYCLIC USE



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25°C)	55 Ah (C10)
Energy	660 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	16.5 A
Max. Discharge Current	500 A
Internal Resistance	58 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 RDC12-55** 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: 229 mm

Width: 138 mm

Height: 208 mm

Total Height: 212 mm

Weight: 16.5 kg

2. TERMINAL CONFIGURATION (F11)

Terminals: Ensure your system's connectors match the F11 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 16.5 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

RDC12-33 (12 V · 33 Ah) · **RDC12-65** (12 V · 65 Ah) · [See all RDC series models](#)

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