

Endurance for frequent charge/discharge cycling.

The RDC12-33 is a 12 V, 33 Ah (10-hour rate) AGM Deep Cycle lead-acid battery from the Rekoser Deep Cycle (AGM) series. It measures 195 × 130 × 155 mm and weighs 10.2 kg, with F11 terminals. It stores 396 Wh and delivers up to 400 A. Endurance for frequent charge/discharge cycling. Typical applications: Solar/Wind Energy Systems and Light Electric Vehicles.

Formerly **RKC12-33**.



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

Nominal Voltage	12 V
Capacity (25°C)	33 Ah (C10)
Energy	396 Wh
Weight	10.2 kg
Terminal	F11
Dimensions	195 × 130 × 155 mm

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)

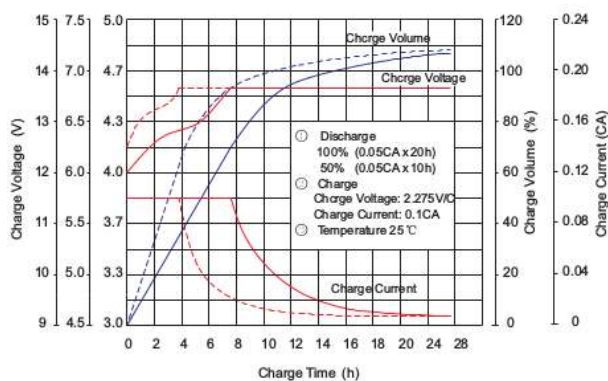
Constant Discharge Ratings (A) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	87.4A	68.4A	58A	35.6A	21.2A	9.2A	5.93A	3.27A	1.67A
10.80 V	98.8A	72.6A	59.5A	36.4A	21.6A	9.32A	5.99A	3.31A	1.71A
10.50 V	110A	76.8A	60.9A	37A	22A	9.46A	6.06A	3.35A	1.75A
10.20 V	121A	80.4A	62.5A	37.9A	22.4A	9.56A	6.14A	3.39A	1.79A
10.02 V	130A	84A	64.1A	38.6A	22.8A	9.64A	6.22A	3.43A	1.82A
9.60 V	140A	87A	66.4A	39.5A	23A	9.74A	6.29A	3.47A	1.86A

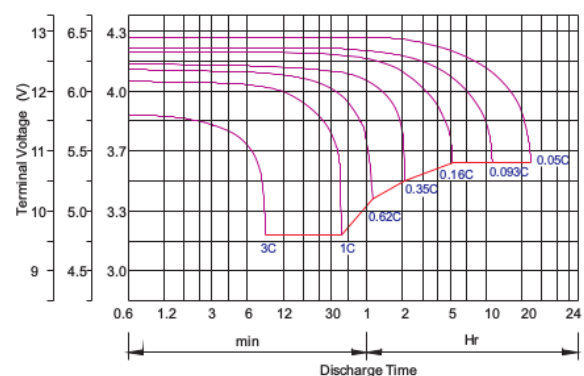
Constant Discharge Ratings (W) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	165W	130W	111W	68.6W	41.2W	17.9W	11.5W	6.53W	3.35W
10.80 V	183W	136W	112W	69.3W	41.4W	18W	11.6W	6.57W	3.42W
10.50 V	202W	143W	114W	70W	41.9W	18.1W	11.7W	6.6W	3.47W
10.20 V	218W	148W	116W	71W	42.3W	18.2W	11.8W	6.63W	3.53W
10.02 V	232W	153W	118W	71.7W	42.7W	18.3W	11.9W	6.66W	3.56W
9.60 V	247W	156W	121W	73W	42.9W	18.4W	12W	6.7W	3.6W

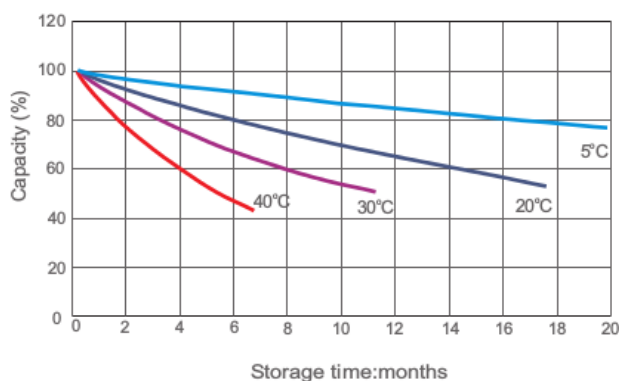
CHARGE CHARACTERISTICS



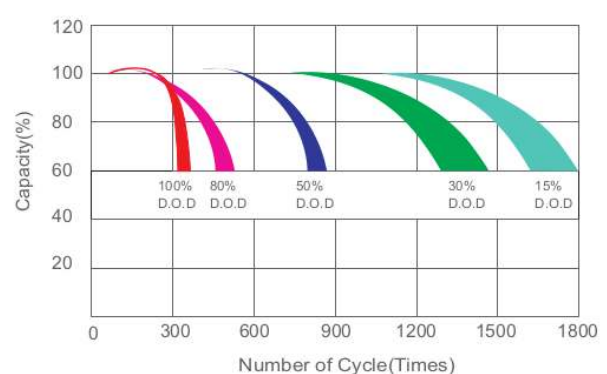
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTICS OF CYCLIC USE



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25°C)	33 Ah (C10)
Energy	396 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	10 A
Max. Discharge Current	400 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 RDC12-33** 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: 195 mm

Width: 130 mm

Height: 155 mm

Total Height: 168 mm

Weight: 10.2 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 10 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

RDC12-12 (12 V · 12 Ah) · **RDC12-55** (12 V · 55 Ah) · [See all RDC series models](#)

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