

Endurance for frequent charge/discharge cycling.

The RDC2-800 is a 2 V, 800 Ah (10-hour rate) AGM Deep Cycle lead-acid battery from the Rekoser Deep Cycle (AGM) series. It measures 410 × 175 × 330 mm and weighs 51 kg, with F10 terminals. It stores 1.6 kWh and delivers up to 3200 A. Endurance for frequent charge/discharge cycling. Typical applications: Solar/Wind Energy Systems and Light Electric Vehicles.

Formerly **RKC2-800**.



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	2 V
Capacity (25°C)	800 Ah (C10)
Energy	1600 Wh
Weight	51 kg
Terminal	F10
Dimensions	410 × 175 × 330 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)

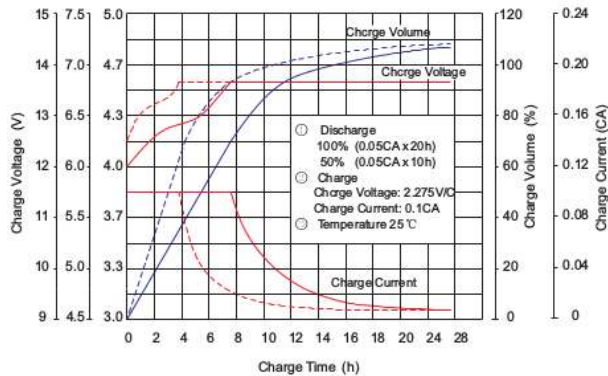
Constant Discharge Ratings (A) at 25°C

F.V / Time	30MIN	1HR	3HR	5HR	10HR	20HR
1.80 V	643A	438A	198A	138A	80A	42A
1.75 V	667A	452A	204A	142A	80.6A	42.3A
1.70 V	684A	461A	205A	143A	81A	42.5A
1.65 V	706A	473A	207A	144A	81.3A	42.7A
1.60 V	720A	480A	208A	145A	81.4A	42.8A

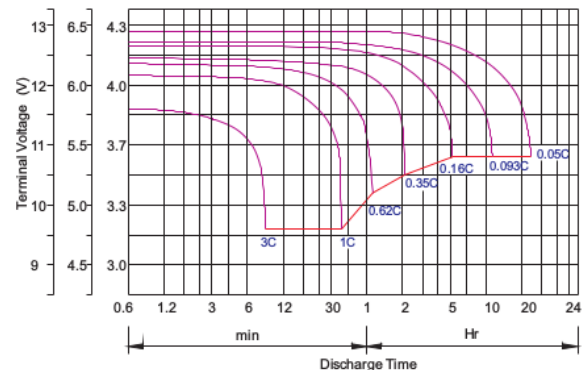
Constant Discharge Ratings (W) at 25°C

F.V / Time	30MIN	1HR	3HR	5HR	10HR	20HR
1.80 V	1202W	832W	388W	272W	159W	84W
1.75 V	1248W	858W	400W	281W	160W	84.6W
1.70 V	1279W	876W	403W	282W	161W	85.1W
1.65 V	1319W	898W	405W	284W	162W	85.3W
1.60 V	1346W	912W	408W	286W	162W	85.5W

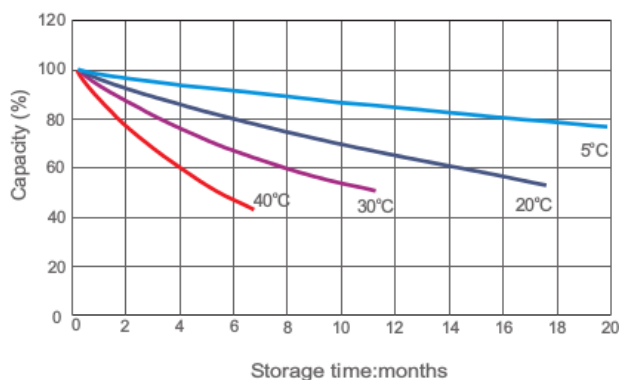
CHARGE CHARACTERISTICS



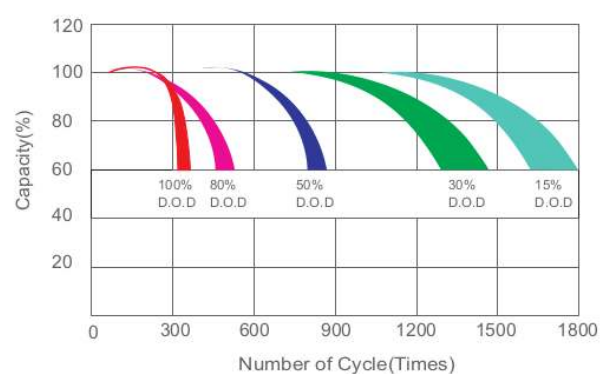
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTICS OF CYCLIC USE



SPECIFICATIONS

Nominal Voltage	2 V
Capacity (25°C)	800 Ah (C10)
Energy	1600 Wh
Charge Voltage (25°C)	Cycle use: 2.35-2.40V (-30mV/C) Float use: 2.25-2.29V (-20mV/C)
Max. Charge Current	160 A
Max. Discharge Current	3200 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 RDC2-800** 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:

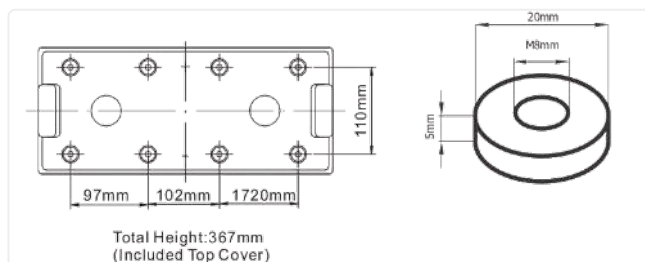
Length: 410 mm

Width: 175 mm

Height: 330 mm

Total Height: 367 mm

Weight: 51 kg



2. TERMINAL CONFIGURATION (F10)

Terminals: Ensure your system's connectors match the F10 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: 2.35-2.40V (-30mV/C)

Float use: 2.25-2.29V (-20mV/C)

Maximum Current: Do not exceed 160 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

RDC2-1000 (2 V · 1000 Ah) · [See all RDC series models](#)

Specialized Technical Support

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