

Endurance for frequent charge/discharge cycling.

The RDC6-380G is a 6 V, 400 Ah (20-hour rate) AGM Deep Cycle lead-acid battery from the Rekoser Deep Cycle (AGM) series. It measures 295 × 180 × 406 mm and weighs 53 kg, with F12 terminals. It stores 2.4 kWh and delivers up to 1600 A. Endurance for frequent charge/discharge cycling. Typical applications: Solar/Wind Energy Systems and Light Electric Vehicles.

Formerly **RKC6-380G**.

Nominal Voltage	6 V
Capacity (25°C)	400 Ah (C20)
Energy	2400 Wh
Weight	53 kg
Terminal	F12
Dimensions	295 × 180 × 406 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)

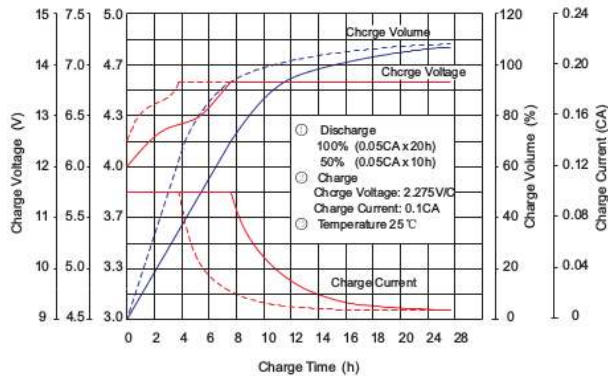
Constant Discharge Ratings (A) at 25°C

F.V / Time	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
5.4 V	459A	423A	310A	201A	85.5A	63.8A	38A	20A
5.25 V	483A	451A	325A	210A	90.7A	66A	38.4A	20.1A
5.1 V	525A	478A	335A	217A	95A	67.5A	38.5A	20.1A
4.95 V	577A	504A	346A	223A	99.1A	68A	38.7A	20.2A
4.8 V	588A	528A	366A	235A	102A	70.3A	38.8A	20.3A

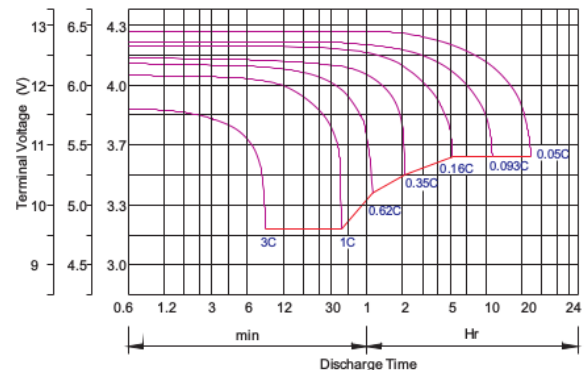
Constant Discharge Ratings (W) at 25°C

F.V / Time	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
5.4 V	800W	776W	585W	489W	403W	263W	190W	125W
5.25 V	861W	820W	600W	510W	420W	272W	196W	128W
5.1 V	930W	855W	620W	530W	438W	280W	202W	130W
4.95 V	960W	879W	638W	550W	455W	288W	206W	132W
4.8 V	1020W	915W	659W	572W	472W	295W	212W	134W

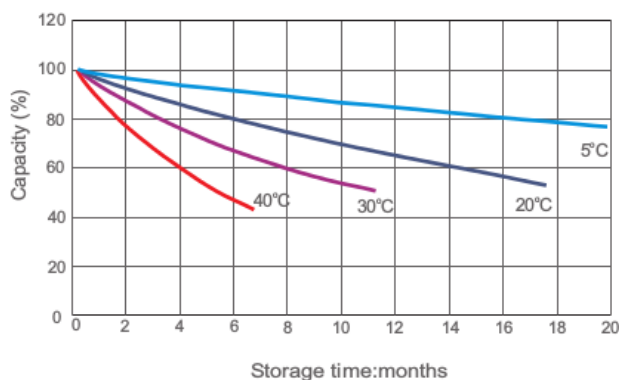
CHARGE CHARACTERISTICS



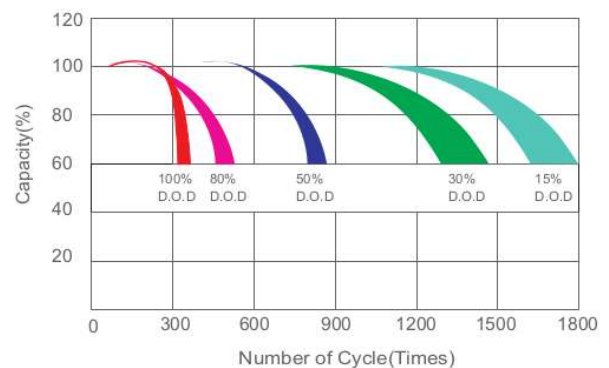
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTICS OF CYCLIC USE



SPECIFICATIONS

Nominal Voltage	6 V
Capacity (25°C)	400 Ah (C20)
Energy	2400 Wh
Cell number	3
Charge Voltage (25°C)	Cycle use: 6.35-6.45V (-30mV/C), max. Current 76A Float use: 6.8-6.9V (-20mV/C)
Max. Charge Current	76 A
Max. Discharge Current	1600 A
Internal Resistance	1.7 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 RDC6-380G** 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:

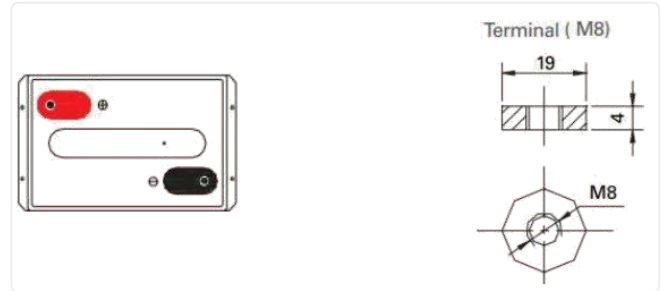
Length: 295 mm

Width: 180 mm

Height: 406 mm

Total Height: 412 mm

Weight: 53 kg



2. TERMINAL CONFIGURATION (F12)

Terminals: Ensure your system's connectors match the F12 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: 6.35-6.45V (-30mV/C), max. Current 76A

Float use: 6.8-6.9V (-20mV/C)

Maximum Current: Do not exceed 76 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

RDC6-300 (6 V · 300 Ah) · [See all RDC series models](#)

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