

## Endurance for frequent charge/discharge cycling.

The RDC6-300 is a 6 V, 300 Ah (10-hour rate) AGM Deep Cycle lead-acid battery from the Rekoser Deep Cycle (AGM) series. It measures 295 × 178 × 350 mm and weighs 46 kg, with F13 terminals. It stores 1.8 kWh and delivers up to 1000 A. Endurance for frequent charge/discharge cycling. Typical applications: Solar/Wind Energy Systems and Light Electric Vehicles.

Formerly **RKC6-300**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 6 V                |
| Capacity (25°C) | 300 Ah (C10)       |
| Energy          | 1800 Wh            |
| Weight          | 46 kg              |
| Terminal        | F13                |
| Dimensions      | 295 × 178 × 350 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)

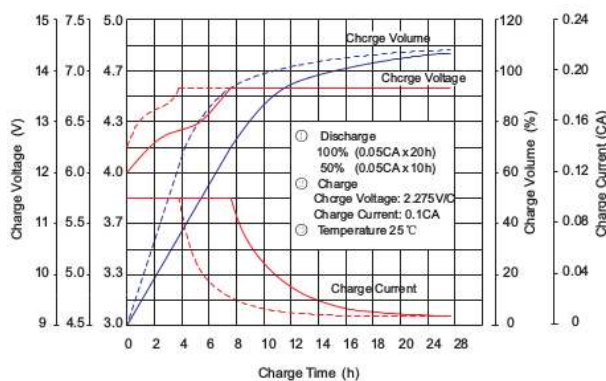
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|------|-------|-------|-------|-------|
| 5.55 V     | 448A | 406A  | 374A  | 265A  | 173A | 77.5A | 52A   | 29.2A | 15.4A |
| 5.40 V     | 523A | 451A  | 410A  | 281A  | 181A | 80.1A | 53.2A | 30A   | 15.7A |
| 5.25 V     | 592A | 496A  | 440A  | 294A  | 187A | 81.7A | 54.5A | 30.6A | 16.1A |
| 5.10 V     | 681A | 534A  | 474A  | 305A  | 191A | 83A   | 55.2A | 31A   | 16.4A |
| 5.01 V     | 763A | 587A  | 501A  | 316A  | 196A | 84A   | 55.7A | 31.4A | 16.7A |
| 4.80 V     | 855A | 638A  | 532A  | 331A  | 201A | 85A   | 56.5A | 31.8A | 17.1A |

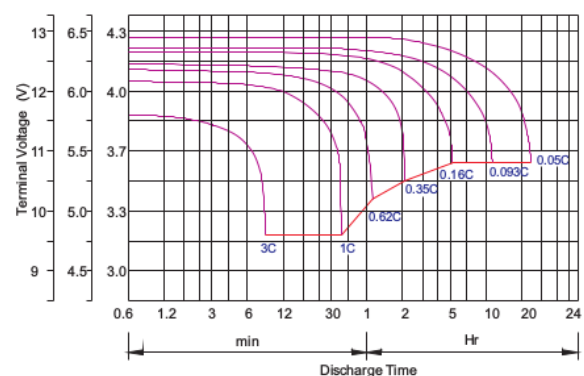
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR  | 20HR   |
|------------|-------|-------|-------|-------|------|------|------|-------|--------|
| 5.55 V     | 844W  | 771W  | 714W  | 511W  | 336W | 152W | 103W | 58.4W | 30.9W  |
| 5.40 V     | 970W  | 846W  | 776W  | 535W  | 347W | 156W | 104W | 59.6W | 31.4W  |
| 5.25 V     | 1082W | 921W  | 824W  | 555W  | 356W | 158W | 106W | 60.3W | 31.8W  |
| 5.10 V     | 1229W | 980W  | 878W  | 570W  | 361W | 159W | 107W | 60.7W | 32.2W  |
| 5.01 V     | 1361W | 1067W | 921W  | 588W  | 367W | 160W | 108W | 61W   | 32.7VW |
| 4.80 V     | 1506W | 1146W | 970W  | 612W  | 374W | 161W | 110W | 61.4W | 33.2W  |

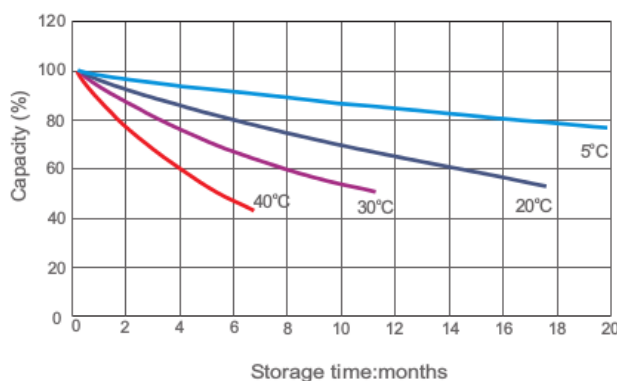
CHARGE CHARACTERISTICS



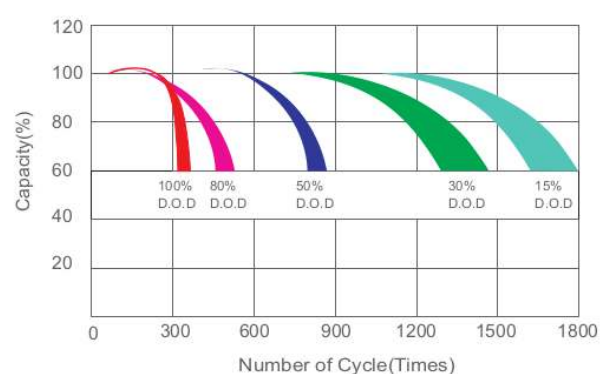
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTICS OF CYCLIC USE



## SPECIFICATIONS

|                                  |                                                                                   |
|----------------------------------|-----------------------------------------------------------------------------------|
| Nominal Voltage                  | 6 V                                                                               |
| Capacity (25°C)                  | 300 Ah (C10), 314 Ah (C20)                                                        |
| Energy                           | 1800 Wh                                                                           |
| Cell number                      | 3                                                                                 |
| Charge Voltage (25°C)            | Cycle use: 7.2-7.4V (-30mV/C), max. Current 2.1A<br>Float use: 6.8-6.9V (-20mV/C) |
| Max. Charge Current              | 90 A                                                                              |
| Max. Discharge Current           | 1000 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 RDC6-300** 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:

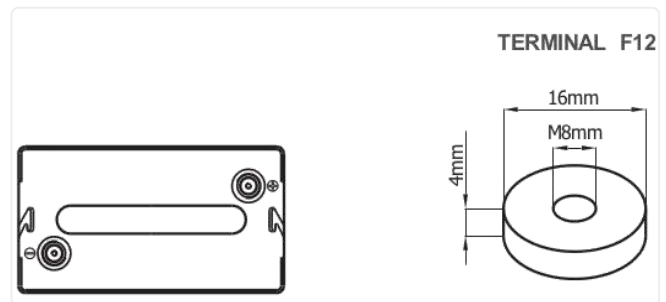
**Length:** 295 mm

**Width:** 178 mm

**Height:** 350 mm

**Total Height:** 350 mm

**Weight:** 46 kg



### 2. TERMINAL CONFIGURATION (F13)

**Terminals:** Ensure your system's connectors match the F13 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: 7.2-7.4V (-30mV/C), max. Current 2.1A

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

**Maximum Current:** Do not exceed 90 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

**RDC6-235** (6 V · 235 Ah) · **RDC6-380G** (6 V · 400 Ah) · [See all RDC series models](#)

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