

## Maximum GEL longevity (2V). Deep-cycle endurance for critical infrastructure.

The RXG2-800 is a 2 V, 800 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser eXtended Gel (2V) 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. Maximum GEL longevity (2V). Deep-cycle endurance for critical infrastructure. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and UPS and Data Centers.

Formerly **RKG2-800**.

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

## MAIN ADVANTAGES

- ✓ **Recovery:** Superior performance after deep discharges
- ✓ **Stable:** Low electrolyte stratification thanks to eXtended Gel technology
- ✓ **Longevity:** Excellent cyclic life in harsh conditions (Very Long Life >12 years design life)
- ✓ **Gel Tech:** Premium thixotropic gel electrolyte with high thermal stability

**15**  
YEARS

**LONG LIFE DESIGN**

\* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

**2**  
YEARS

**WARRANTY**

\* Subject to charge and temperature parameters stipulated in this datasheet.

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS AND BASE STATIONS**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

Constant Discharge Ratings (A) at 25°C

| F.V / Time | 30MIN | 1HR  | 2HR  | 3HR  | 5HR  | 6HR  | 8HR   | 10HR  | 20HR  |
|------------|-------|------|------|------|------|------|-------|-------|-------|
| 1.80 V     | 643A  | 438A | 276A | 198A | 138A | 119A | 93.1A | 80A   | 36.4A |
| 1.75 V     | 667A  | 452A | 284A | 204A | 142A | 122A | 96A   | 80.6A | 36.7A |
| 1.70 V     | 684A  | 461A | 288A | 205A | 143A | 123A | 96.7A | 81A   | 36.9A |
| 1.65 V     | 706A  | 473A | 291A | 207A | 144A | 124A | 97.3A | 81.3A | 37A   |
| 1.60 V     | 720A  | 480A | 292A | 208A | 145A | 125A | 97.9A | 81.4A | 37.1A |

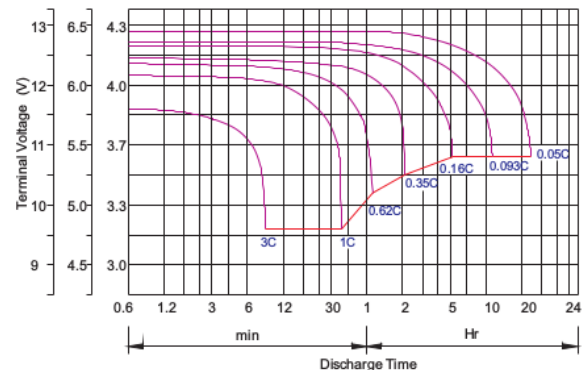
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 30MIN | 1HR  | 2HR  | 3HR  | 5HR  | 6HR  | 8HR  | 10HR | 20HR  |
|------------|-------|------|------|------|------|------|------|------|-------|
| 1.80 V     | 1202W | 832W | 534W | 388W | 272W | 234W | 185W | 159W | 73.2W |
| 1.75 V     | 1248W | 858W | 548W | 400W | 281W | 241W | 191W | 160W | 73.7W |
| 1.70 V     | 1279W | 876W | 556W | 403W | 282W | 243W | 192W | 161W | 74.1W |
| 1.65 V     | 1319W | 898W | 561W | 405W | 284W | 245W | 194W | 162W | 74.3W |
| 1.60 V     | 1346W | 912W | 564W | 408W | 286W | 246W | 195W | 162W | 74.5W |

CHARGE CHARACTERISTICS



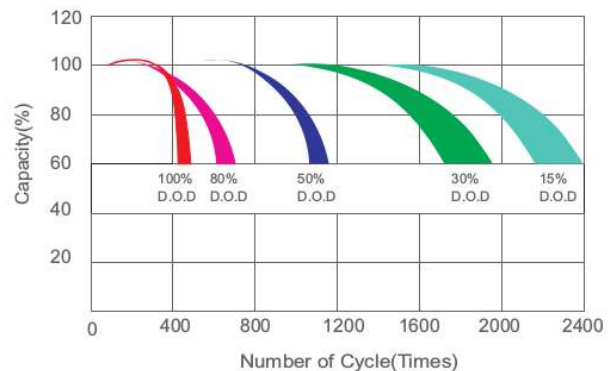
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC OF CYCLIC USE



## SPECIFICATIONS

|                                  |                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------|
| Nominal Voltage                  | 2 V                                                                                  |
| Capacity (25°C)                  | 800 Ah (C10)                                                                         |
| Energy                           | 1600 Wh                                                                              |
| Cell number                      | 1                                                                                    |
| Charge Voltage (25°C)            | Cycle use: 2.35-2.40V (-5mV / o C/ cell)<br>Float use: 2.25-2.29V (-3mV / o C/ cell) |
| 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 RXG2-800** 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:

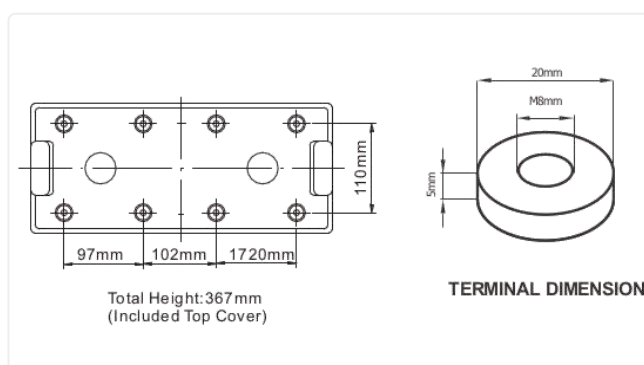
**Length:** 410 mm

**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 (-5mV / o C/ cell)

Float use: 2.25-2.29V (-3mV / o C/ cell)

**Maximum Current:** Do not exceed 160 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Sealed gel battery, maintenance-free and leak-proof.

**Charging:** Keep to the stated charge voltage: gel is sensitive to overcharging.

**Cycling:** Recharge fully after every discharge; never leave it discharged.

**Storage:** Store charged, in a cool and dry place, and recharge periodically.

### NEARBY MODELS

**RXG2-600** (2 V · 600 Ah) · **RXG2-1000** (2 V · 1000 Ah) · See all RXG series models

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