

## Versatility and reliability for volume applications.

The RGP12-24 is a 12 V, 24 Ah (20-hour rate) AGM lead-acid battery from the Rekoser General Purpose (AGM) series. It measures 166 × 175 × 125 mm and weighs 7.8 kg. It stores 288 Wh and delivers up to 310 A. Versatility and reliability for volume applications. Typical applications: UPS and Data Centers, Security and Alarm Systems and Emergency Lighting.

Formerly **RKE12-24**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 24 Ah (C20)        |
| Energy          | 288 Wh             |
| Weight          | 7.8 kg             |
| Dimensions      | 166 × 175 × 125 mm |

## MAIN ADVANTAGES

- ✓ **AGM Technology:** Fully sealed, maintenance-free, and leak-proof.
- ✓ **High Energy Density:** Optimized for critical and rapid discharges.
- ✓ **Low Self-Discharge:** Pb-Ca alloy allows for long storage periods.
- ✓ **Advanced Safety:** Safety valves and reinforced ABS container.

**9**  
YEARS

### LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: 6-9 Years (General Purpose).

**2**  
YEARS

### WARRANTY

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

## MAIN APPLICATIONS



UPS AND DATA CENTERS



SECURITY AND ALARM  
SYSTEMS



EMERGENCY LIGHTING

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

GB/T19639

IEC 61056

JIS C8702

## 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    | 59.9A | 46.9A | 39.7A | 24.4A | 14.6A | 6.31A | 4.07A | 2.24A | 1.14A |
| 10.80 V    | 67.7A | 49.8A | 40.8A | 24.9A | 14.8A | 6.39A | 4.1A  | 2.27A | 1.17A |
| 10.50 V    | 75.6A | 52.7A | 41.8A | 25.4A | 15.1A | 6.49A | 4.15A | 2.3A  | 1.2A  |
| 10.20 V    | 82.9A | 55.1A | 42.9A | 26A   | 15.4A | 6.55A | 4.21A | 2.32A | 1.23A |
| 10.02 V    | 89.4A | 57.6A | 44A   | 26.4A | 15.6A | 6.61A | 4.27A | 2.35A | 1.25A |
| 9.60 V     | 96.2A | 59.6A | 45.5A | 27.1A | 15.8A | 6.68A | 4.32A | 2.38A | 1.27A |

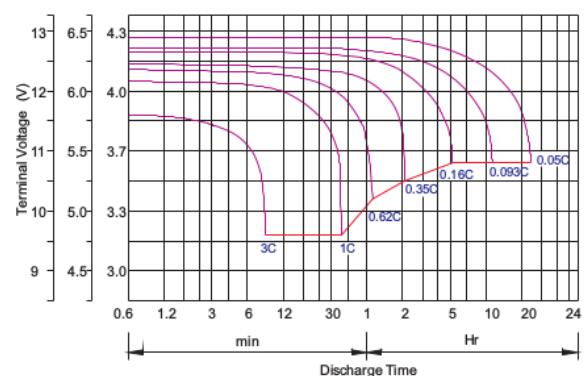
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11.10 V    | 113W | 89.2W | 76W   | 47W   | 28.3W | 12.2W | 8.04W | 4.47W | 2.3W  |
| 10.80 V    | 125W | 93.4W | 77.1W | 47.5W | 28.4W | 12.3W | 8.06W | 4.51W | 2.34W |
| 10.50 V    | 138W | 97.8W | 78.3W | 48W   | 28.7W | 12.4W | 8.08W | 4.52W | 2.38W |
| 10.20 V    | 150W | 101W  | 79.5W | 48.7W | 29W   | 12.5W | 8.13W | 4.54W | 2.42W |
| 10.02 V    | 159W | 105W  | 80.8W | 49.1W | 29.3W | 12.6W | 8.17W | 4.56W | 2.44W |
| 9.60 V     | 169W | 107W  | 83W   | 50.1W | 29.4W | 12.7W | 8.21W | 4.6W  | 2.47W |

CHARGE CHARACTERISTICS



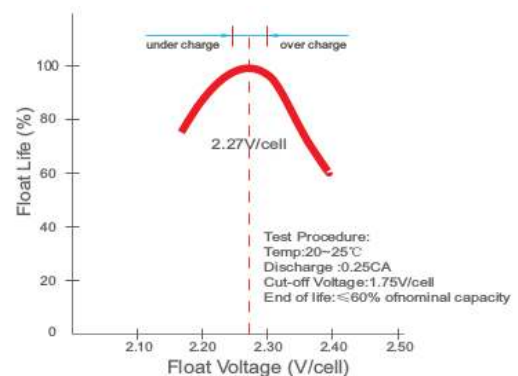
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                                  |
| Capacity (25°C)                  | 24 Ah (C20)                                                                           |
| Energy                           | 288 Wh                                                                                |
| Cell number                      | 6                                                                                     |
| Charge Voltage (25°C)            | Cycle use: 14.6-14.8V (-30mV/C), max. Current 2.1A<br>Float use: 13.6-13.8V (-20mV/C) |
| Max. Charge Current              | 7.2 A                                                                                 |
| Max. Discharge Current           | 310 A                                                                                 |
| Internal Resistance              | 25 mΩ                                                                                 |
| Self Discharge                   | 3 % of capacity per month at 25 °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 RGP12-24 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:

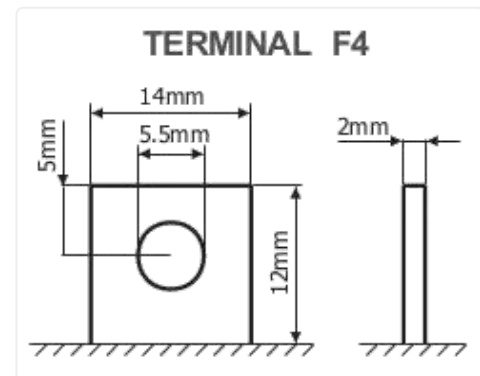
**Length:** 166 mm

**Width:** 175 mm

**Height:** 125 mm

**Total Height:** 125 mm

**Weight:** 7.8 kg



### 2. TERMINALS AND POLARITY

**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 7.2 A of charge.

### 4. SAFETY AND STORAGE

**Maintenance:** Sealed AGM technology, maintenance-free and leak-proof.

**Position:** Can be installed in any orientation, except inverted.

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

### NEARBY MODELS

**RGP12-20** (12 V · 20 Ah) · **RGP12-26** (12 V · 26 Ah) · [See all RGP series models](#)

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