

Versatility and reliability for volume applications.

The RGP12-4.5 is a 12 V, 4.5 Ah (20-hour rate) AGM lead-acid battery from the Rekoser General Purpose (AGM) series. It measures 90 × 70 × 101 mm and weighs 1.47 kg. It stores 54 Wh and delivers up to 67 A. Versatility and reliability for volume applications. Typical applications: UPS and Data Centers, Security and Alarm Systems and Emergency Lighting.

Formerly **RKE12-4.5**.

Nominal Voltage	12 V
Capacity (25°C)	4.5 Ah (C20)
Energy	54 Wh
Weight	1.47 kg
Dimensions	90 × 70 × 101 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	11.2A	8.8A	7.45A	4.58A	2.73A	1.18A	0.76A	0.42A	0.214A
10.80 V	12.7A	9.34A	7.64A	4.68A	2.77A	1.2A	0.77A	0.425A	0.22A
10.50 V	14.2A	9.88A	7.83A	4.76A	2.83A	1.22A	0.78A	0.43A	0.225A
10.20 V	15.5A	10.3A	8.04A	4.87A	2.88A	1.23A	0.79A	0.435A	0.23A
10.02 V	16.8A	10.8A	8.24A	4.96A	2.93A	1.24A	0.8A	0.44A	0.234A
9.60 V	18A	11.2A	8.53A	5.08A	2.96A	1.25A	0.81A	0.446A	0.239A

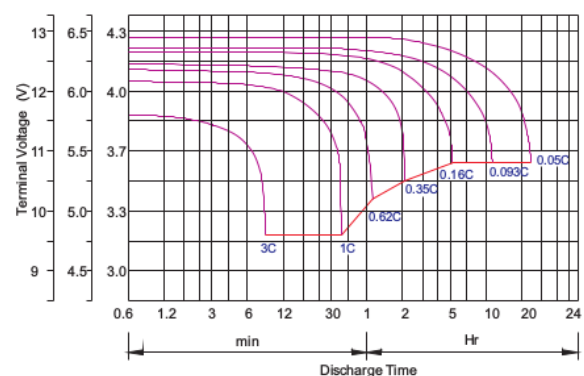
Constant Discharge Ratings (W) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	21.2W	16.7W	14.2W	8.82W	5.3W	2.32W	1.49W	0.839W	0.431W
10.80 V	23.5W	17.5W	14.5W	8.91W	5.32W	2.33W	1.5W	0.845W	0.44W
10.50 V	25.9W	18.3W	14.7W	8.99W	5.39W	2.35W	1.51W	0.848W	0.447W
10.20 V	28.1W	19W	14.9W	9.13W	5.44W	2.35W	1.52W	0.852W	0.453W
10.02 V	29.9W	19.6W	15.1W	9.21W	5.48W	2.36W	1.53W	0.856W	0.458W
9.60 V	31.8W	20.1W	15.6W	9.39W	5.52W	2.36W	1.54W	0.862W	0.463W

CHARGE CHARACTERISTICS



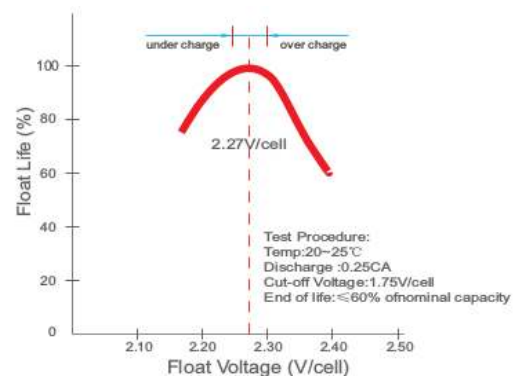
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25°C)	4.5 Ah (C20)
Energy	54 Wh
Cell number	6
Charge Voltage (25°C)	Cycle use: 14.6-14.8V (-30mV/C), max. Current 2.1A Float use: 13.6-13.8V (-20mV/C)
Max. Charge Current	1.35 A
Max. Discharge Current	67 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 RGP12-4.5** 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:

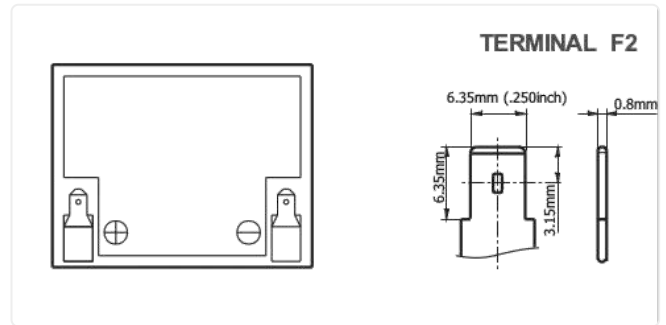
Length: 90 mm

Width: 70 mm

Height: 101 mm

Total Height: 107 mm

Weight: 1.47 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 1.35 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

RG12-4SE (12 V · 4 Ah) · **RG12-5** (12 V · 5 Ah) · See all RGP series models

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