

## The industry standard. The perfect balance between service life and cost.

The RHP12-45 is a 12 V, 45 Ah (20-hour rate) AGM lead-acid battery from the Rekoser High Performance (AGM) series. It measures 197 × 165 × 170 mm and weighs 13.1 kg, with F11 terminals. It stores 540 Wh and delivers up to 400 A. The industry standard. The perfect balance between service life and cost. Typical applications: Telecommunications and Base Stations and UPS and Data Centers.

Formerly **RKE12-45**.



## MAIN ADVANTAGES

- ✓ **Service Life:** 10-12 years design life
- ✓ **Grid:** Heavy-duty Pb-Ca-Sn alloy grids
- ✓ **Reliability:** Consistent performance in critical backup
- ✓ **Efficiency:** High gas recombination efficiency

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 45 Ah (C20)        |
| Energy          | 540 Wh             |
| Weight          | 13.1 kg            |
| Terminal        | F11                |
| Dimensions      | 197 × 165 × 170 mm |

**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



**TELECOMMUNICATIONS  
AND BASE STATIONS**



**UPS AND DATA CENTERS**

## 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    | 70.8A | 63.4A | 57.8A | 40.6A | 26.2A | 11.6A  | 7.79A | 4.38A | 2.31A |
| 10.80 V    | 82.7A | 70.5A | 63.4A | 43A   | 27.4A | 12A    | 7.98A | 4.5A  | 2.36A |
| 10.50 V    | 93.5A | 77.5A | 68A   | 45A   | 28.3A | 12.3A  | 8.18A | 4.59A | 2.51A |
| 10.20 V    | 108A  | 83.4A | 73.2A | 46.6A | 28.9A | 12.55A | 8.29A | 4.65A | 2.45A |
| 10.02 V    | 120A  | 91.8A | 77.5A | 48.4A | 29.6A | 12.6A  | 8.35A | 4.71A | 2.51A |
| 9.60 V     | 135A  | 100A  | 82.3A | 50.7A | 30.4A | 12.8A  | 8.47A | 4.77A | 2.57A |

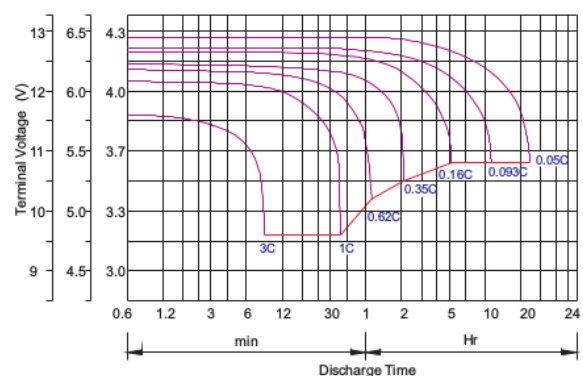
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11.10 V    | 133W | 121W  | 110W  | 78.1W | 50.9W | 22.8W | 15.4W | 8.76W | 4.64W |
| 10.80 V    | 153W | 132W  | 120W  | 82W   | 52.6W | 23.4W | 15.7W | 8.94W | 4.72W |
| 10.50 V    | 171W | 144W  | 127W  | 85W   | 53.9W | 23.7W | 15.9W | 9.05W | 4.77W |
| 10.20 V    | 194W | 153W  | 136W  | 87.3W | 54.6W | 23.8W | 16W   | 9.11W | 4.84W |
| 10.02 V    | 215W | 167W  | 142W  | 90W   | 55.5W | 23.9W | 16W   | 9.15W | 4.91W |
| 9.60 V     | 238W | 179W  | 150W  | 93.6W | 56.7W | 24.1W | 16.1W | 9.22W | 4.99W |

CHARGE CHARACTERISTICS



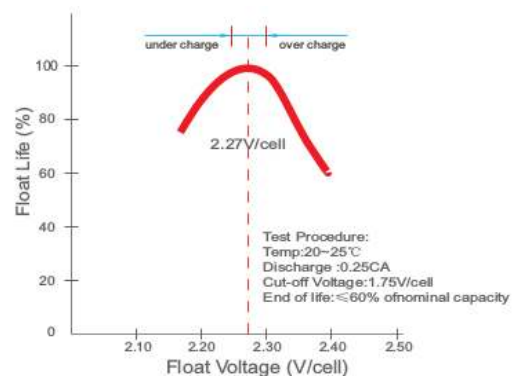
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



## SPECIFICATIONS

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                                  |
| Capacity (25°C)                  | 45 Ah (C20)                                                                           |
| Energy                           | 540 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              | 13.5 A                                                                                |
| Max. Discharge Current           | 400 A                                                                                 |
| Internal Resistance              | 9.2 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 RHP12-45** 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:

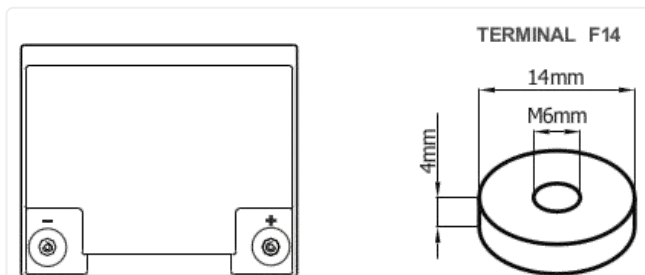
**Length:** 197 mm

**Width:** 165 mm

**Height:** 170 mm

**Total Height:** 170 mm

**Weight:** 13.1 kg



### 2. TERMINAL CONFIGURATION (F11)

**Terminals:** Ensure your system's connectors match the F11 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: 14.6-14.8V (-30mV/C), max. Current 2.1A

Float use: 13.6-13.8V (-20mV/C)

**Maximum Current:** Do not exceed 13.5 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

**RHP12-40** (12 V · 40 Ah) · **RHP12-50** (12 V · 50 Ah) · [See all RHP series models](#)

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