

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

The RHP12-40 is a 12 V, 40 Ah (10-hour rate) AGM lead-acid battery from the Rekoser High Performance (AGM) series. It measures 197 × 165 × 170 mm and weighs 13 kg, with F11 terminals. It stores 480 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 **RKE12-40**.



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)	40 Ah (C10)
Energy	480 Wh
Weight	13 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	62.9A	56.4A	51.4A	36.1A	23.3A	10.3A	6.93A	3.9A	2.05A
10.80 V	73.5A	62.6A	56.4A	38.2A	24.4A	10.7A	7.1A	4A	2.1A
10.50 V	83.1A	68.9A	60.4A	40A	25.2A	10.9A	7.27A	4.08A	2.14A
10.20 V	95.6A	74.1A	65.1A	41.4A	25.7A	11.1A	7.37A	4.14A	2.18A
10.02 V	107A	81.6A	68.9A	43A	26.3A	11.2A	7.42A	4.19A	2.23A
9.60 V	120A	88.5A	73.1A	45A	27A	11.3A	7.53A	4.24A	2.28A

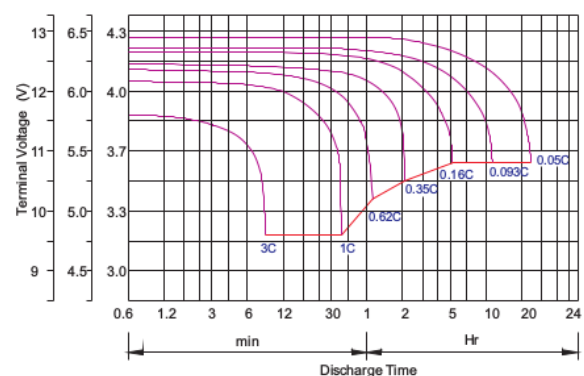
Constant Discharge Ratings (W) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	118W	107W	98.1W	69.5W	45.2W	20.3W	13.7W	7.79W	4.12W
10.80 V	136W	118W	107W	72.9W	46.8W	20.8W	13.9W	7.95W	4.19W
10.50 V	152W	128W	113W	75.5W	47.9W	21W	14.2W	8.04W	4.24W
10.20 V	173W	136W	121W	77.6W	48.6W	21.2W	14.2W	8.09W	4.3W
10.02 V	191W	148W	127W	80W	49.4W	21.3W	14.3W	8.14W	4.36W
9.60 V	211W	159W	133W	83.2W	50.4W	21.4W	14.3W	8.19W	4.43W

CHARGE CHARACTERISTICS



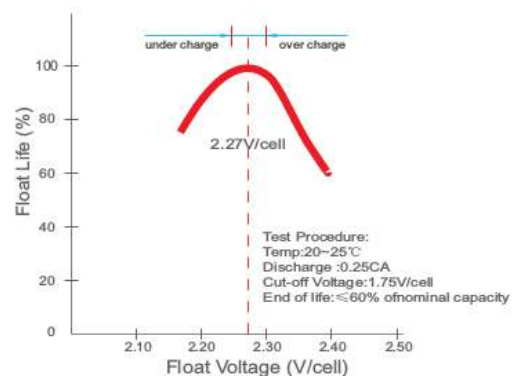
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25°C)	40 Ah (C10), 42 Ah (C20)
Energy	480 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	12 A
Max. Discharge Current	400 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 RHP12-40** 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:

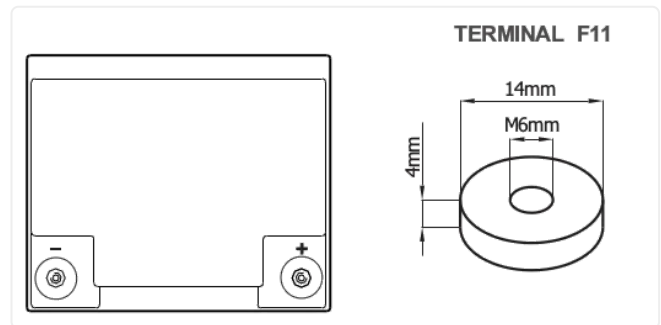
Length: 197 mm

Width: 165 mm

Height: 170 mm

Total Height: 170 mm

Weight: 13 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 12 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

RHP12-38 (12 V · 38 Ah) · **RHP12-45** (12 V · 45 Ah) · [See all RHP series models](#)

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