

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

The RHP12-50 is a 12 V, 50 Ah (10-hour rate) AGM lead-acid battery from the Rekoser High Performance (AGM) series. It measures 229 × 138 × 208 mm and weighs 20.5 kg, with F11 terminals. It stores 600 Wh and delivers up to 500 A. The industry standard. The perfect balance between service life and cost. Typical applications: Telecommunications and Base Stations and UPS and Data Centers.

Formerly **RKE12-50**.

Nominal Voltage	12 V
Capacity (25°C)	50 Ah (C10)
Energy	600 Wh
Weight	20.5 kg
Terminal	F11
Dimensions	229 × 138 × 208 mm

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

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)

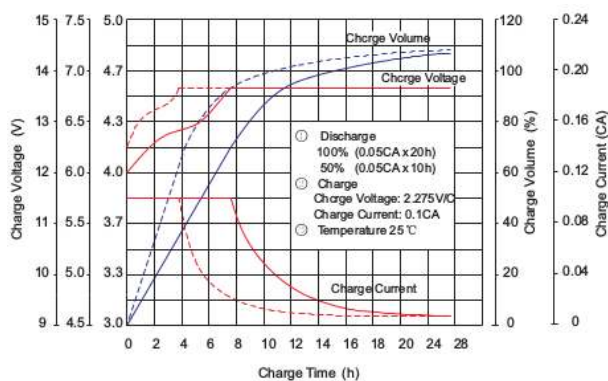
Constant Discharge Ratings (A) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	78.6A	70.5A	64.2A	45.1A	29.1A	12.9A	8.66A	4.87A	2.56A
10.80 V	91.8A	78.3A	70.5A	47.8A	30.5A	13.4A	8.87A	5A	2.62A
10.50 V	104A	86.1A	75.5A	50A	31.5A	13.6A	9.09A	5.1A	2.68A
10.20 V	119A	92.7A	81.4A	51.8A	32.1A	13.8A	9.21A	5.17A	2.73A
10.02 V	134A	102A	86.1A	53.8A	32.9A	14A	9.28A	5.24A	2.79A
9.60 V	150A	111A	91.4A	56.3A	33.8A	14.2A	9.41A	5.3A	2.86A

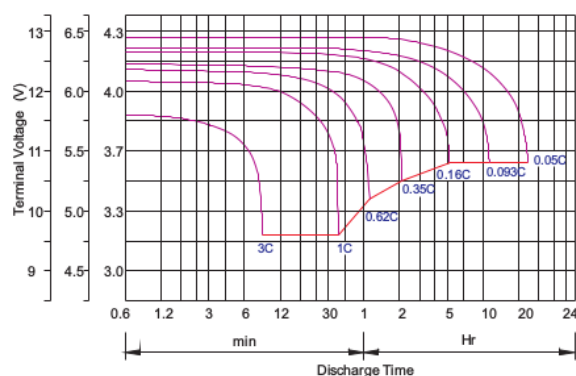
Constant Discharge Ratings (W) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	148W	134W	123W	86.8W	56.5W	25.4W	17.1W	9.73W	5.15W
10.80 V	170W	147W	133W	91.1W	58.5W	26W	17.4W	9.93W	5.24W
10.50 V	190W	160W	142W	94.4W	59.9W	26.3W	17.6W	10W	5.3W
10.20 V	216W	170W	151W	97W	60.7W	26.5W	17.7W	10.1W	5.37W
10.02 V	239W	185W	158W	100W	61.7W	26.6W	17.8W	10.2W	5.45W
9.60 V	264W	199W	167W	104W	63W	26.7W	17.9W	10.3W	5.54W

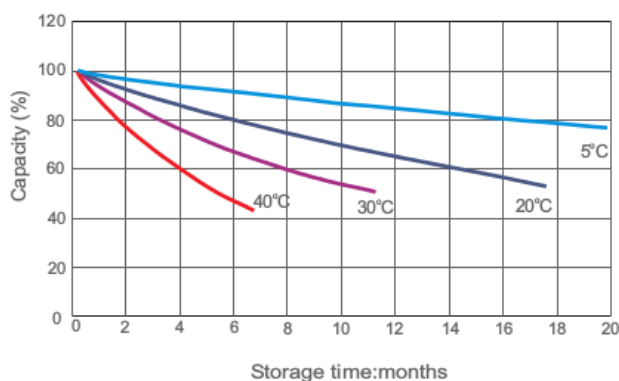
CHARGE CHARACTERISTICS



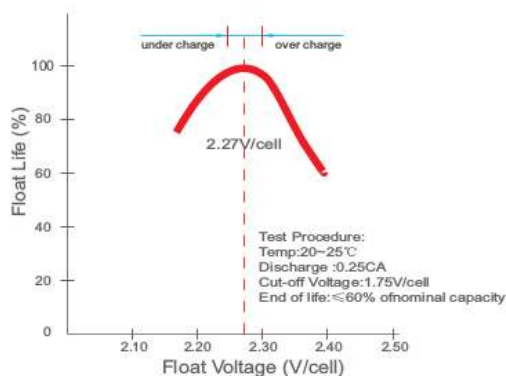
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25°C)	50 Ah (C10), 52.4 Ah (C20)
Energy	600 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	15 A
Max. Discharge Current	500 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 RHP12-50 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:

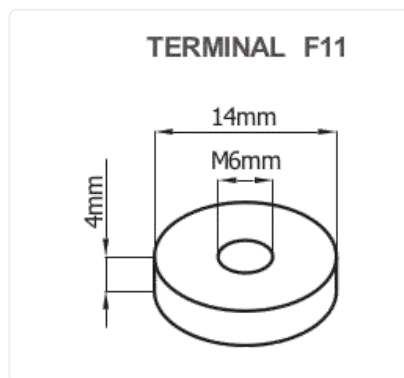
Length: 229 mm

Width: 138 mm

Height: 208 mm

Total Height: 212 mm

Weight: 20.5 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 15 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

RHP12-45 (12 V · 45 Ah) · **RHP12-55** (12 V · 55 Ah) · [See all RHP series models](#)

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