

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

The RHP12-38 is a 12 V, 38 Ah (10-hour rate) AGM lead-acid battery from the Rekoser High Performance (AGM) series. It measures 197 × 165 × 170 mm and weighs 12.3 kg, with F11 terminals. It stores 456 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 **RKE12-38**.

Nominal Voltage	12 V
Capacity (25°C)	38 Ah (C10)
Energy	456 Wh
Weight	12.3 kg
Terminal	F11
Dimensions	197 × 165 × 170 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	59.8A	53.6A	48.8A	34.3A	22.1A	9.82A	6.58A	3.7A	1.95A
10.80 V	69.8A	59.5A	53.5A	36.3A	23.1A	10.1A	6.74A	3.8A	1.99A
10.50 V	78.9A	65.4A	57.4A	38A	23.9A	10.3A	6.91A	3.88A	2.03A
10.20 V	90.8A	70.4A	61.8A	39.4A	24.4A	10.5A	7A	3.93A	2.07A
10.02 V	102A	77.5A	65.4A	40.9A	25A	10.6A	7.05A	3.98A	2.12A
9.60 V	114A	84.1A	69.5A	42.8A	25.7A	10.8A	7.15A	4.03A	2.17A

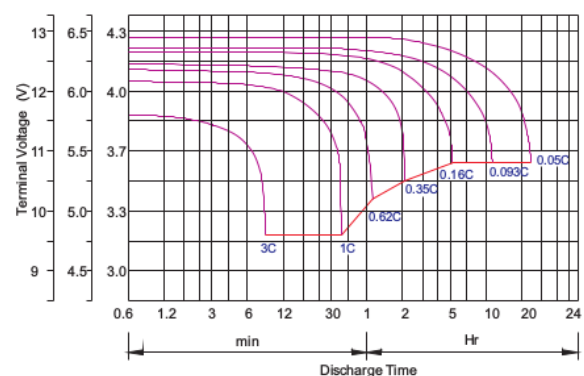
Constant Discharge Ratings (W) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	113W	102W	93.2W	66W	42.9W	19.3W	13W	7.4W	3.92W
10.80 V	129W	112W	101W	69.2W	44.4W	19.8W	13.2W	7.55W	3.98W
10.50 V	144W	121W	108W	71.8W	45.6W	20W	13.4W	7.64W	4.03W
10.20 V	164W	129W	115W	73.7W	46.1W	20.1W	13.5W	7.69W	4.08W
10.02 V	181W	141W	120W	76W	46.9W	20.2W	13.5W	7.73W	4.14W
9.60 V	201W	151W	127W	79.1W	47.9W	20.3W	13.6W	7.78W	4.21W

CHARGE CHARACTERISTICS



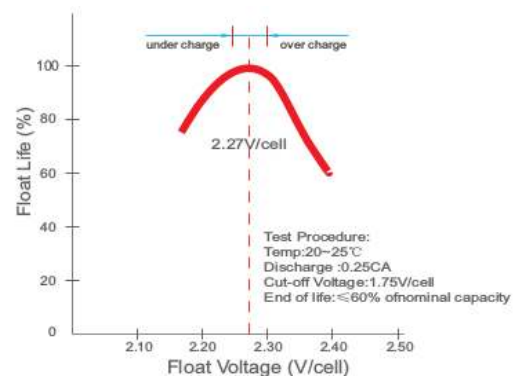
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25°C)	38 Ah (C10), 39.8 Ah (C20)
Energy	456 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	11.4 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 RHP12-38** 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:

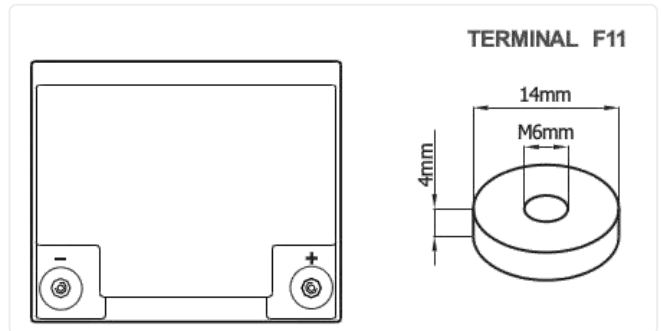
Length: 197 mm

Width: 165 mm

Height: 170 mm

Total Height: 170 mm

Weight: 12.3 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 11.4 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

RHP12-36 (12 V · 36 Ah) · **RHP12-40** (12 V · 40 Ah) · [See all RHP series models](#)

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