

High cyclic density in rack format for critical sites with frequent grid outages.

The RFC12-100 is a 12 V, 100 Ah (10-hour rate) AGM Deep Cycle lead-acid battery from the Rekoser Front Terminal Deep Cycle series. It measures 508 × 110 × 223 mm and weighs 31 kg. It stores 1.2 kWh and delivers up to 1000 A. High cyclic density in rack format for critical sites with frequent grid outages. Typical applications: Telecommunications and Base Stations and Microgrids and Off-Grid Sites.

Formerly **RKC12-100FT**.



MAIN ADVANTAGES

- ✓ **Deep cycle:** Built for frequent cyclic discharge
- ✓ **Front terminal:** Rack integration with front access
- ✓ **Long life:** EUROBAT class above 12 years
- ✓ **AGM technology:** Sealed and maintenance-free

Nominal Voltage	12 V
Capacity (25°C)	100 Ah (C10)
Energy	1200 Wh
Weight	31 kg
Dimensions	508 × 110 × 223 mm

12
YEARS

LONG LIFE DESIGN

* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

2
YEARS

WARRANTY

* Subject to charge and temperature parameters stipulated in this datasheet.

MAIN APPLICATIONS



**TELECOMMUNICATIONS
AND BASE STATIONS**



**MICROGRIDS AND OFF-
GRID SITES**

QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC 60896-21/22

JIS C8704

GB/T19639

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	142A	121A	114A	81.9A	52.4A	24.7A	16.2A	9.65A	5A
10.80 V	165A	134A	125A	86.8A	54A	25.9A	17A	10A	5.3A
10.50 V	187A	147A	134A	90.8A	56.7A	26.4A	17.2A	10.2A	5.33A
10.20 V	215A	158A	145A	94.1A	57.9A	26.8A	17.4A	10.3A	5.4A
10.02 V	241A	174A	153A	97.8A	59.2A	27.1A	17.5A	10.5A	5.45A
9.60 V	270A	189A	163A	102A	60.8A	27.5A	17.8A	10.6A	5.5A

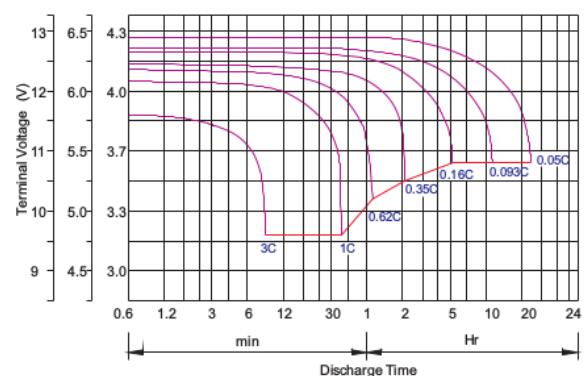
Constant Discharge Ratings (W) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	267W	229W	218W	158W	102W	48.4W	32.1W	19.3W	10.1W
10.80 V	306W	251W	237W	165W	104W	50.4W	33.4W	19.9W	10.6W
10.50 V	342W	273W	252W	172W	108W	50.9W	33.5W	20.1W	10.6W
10.20 V	388W	291W	268W	176W	109W	51.3W	33.5W	20.2W	10.6W
10.02 V	430W	317W	281W	182W	111W	51.6W	33.7W	20.3W	10.7W
9.60 V	475W	340W	297W	189W	113W	51.8W	33.9W	20.5W	10.7W

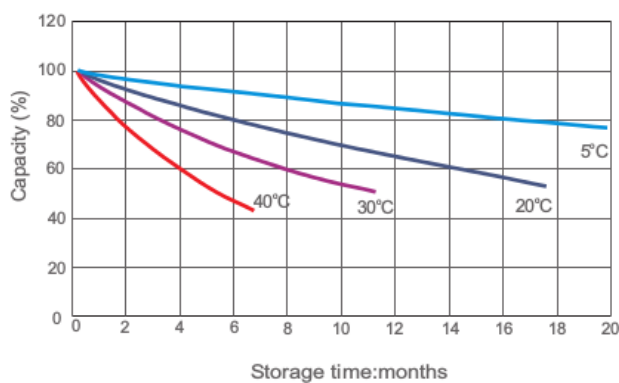
CHARGE CHARACTERISTICS



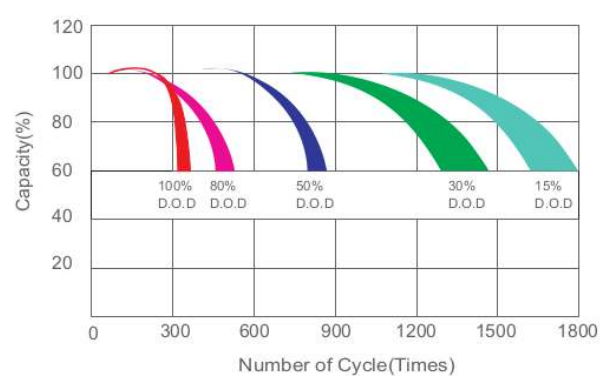
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTICS OF CYCLIC USE



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25°C)	100 Ah (C10), 105 Ah (C20)
Energy	1200 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	30 A
Max. Discharge Current	1000 A
Internal Resistance	25 mΩ
Self Discharge	3 % of capacity per month at 20 °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 RFC12-100** 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:

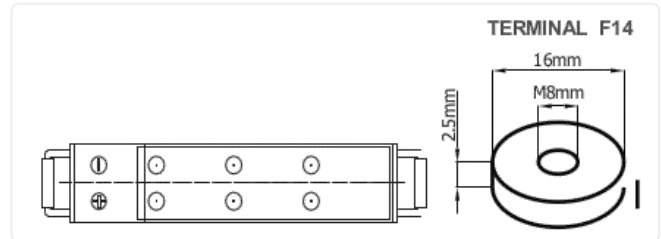
Length: 508 mm

Width: 110 mm

Height: 223 mm

Total Height: 238 mm

Weight: 31 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 30 A of charge.

4. SAFETY AND STORAGE

Maintenance: Sealed AGM technology, maintenance-free and leak-proof.

Cycling: Recharge fully after every discharge; never leave it discharged.

Position: Can be installed in any orientation, except inverted.

Storage: Store charged, in a cool and dry place, and recharge periodically.

NEARBY MODELS

RFC12-75 (12 V · 75 Ah) · **RFC12-150** (12 V · 150 Ah) · [See all RFC series models](#)

The same battery in other series: **RDC12-100** (RDC Series – Deep Cycle (AGM))

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