

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

The RFC12-50 is a 12 V, 50 Ah (10-hour rate) AGM Deep Cycle lead-acid battery from the Rekoser Front Terminal Deep Cycle series. It measures 277 × 106 × 221 mm and weighs 17 kg, with F11 terminals. It stores 600 Wh and delivers up to 500 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 **RKC12-50FT**.



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)	50 Ah (C10)
Energy	600 Wh
Weight	17 kg
Terminal	F11
Dimensions	277 × 106 × 221 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)

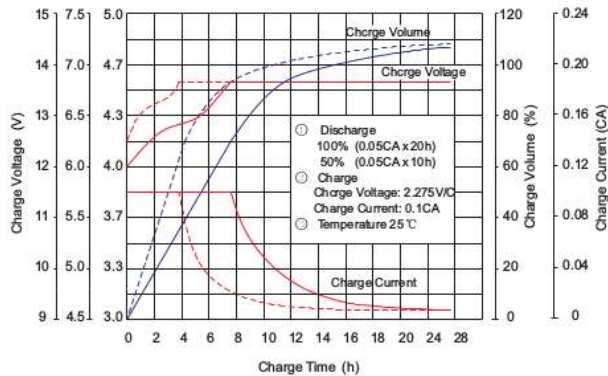
Constant Discharge Ratings (A) at 25°C

F.V / Time	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
10.80 V	69.5A	43.8A	28.3A	12.1A	8.49A	5A	2.63A
10.50 V	73.4A	45.4A	29.2A	12.5A	8.75A	5.04A	2.64A
10.20 V	76A	46.6A	29.8A	12.6A	8.81A	5.07A	2.66A
10.02 V	78.9A	48A	30.5A	12.7A	8.87A	5.08A	2.67A
9.60 V	80.9A	49A	31A	12.8A	8.93A	5.09A	2.67A

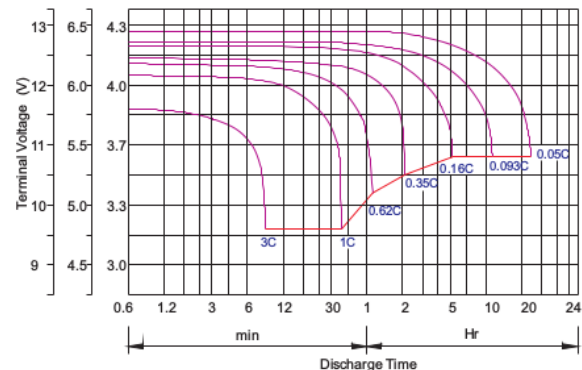
Constant Discharge Ratings (W) at 25°C

F.V / Time	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
10.80 V	763W	491W	322W	143W	100W	59.7W	34.8W
10.50 V	806W	510W	333W	147W	103W	60.1W	35.4W
10.20 V	834W	522W	339W	148W	104W	60.5W	35.5W
10.02 V	866W	539W	348W	149W	105W	60.7W	35.6W
9.60 V	888W	550W	353W	150W	105W	60.8W	35.8W

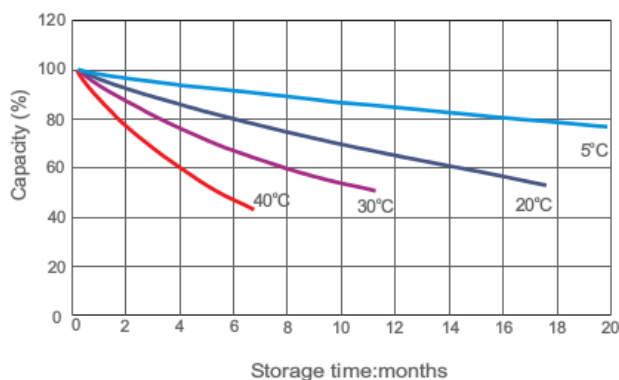
CHARGE CHARACTERISTICS



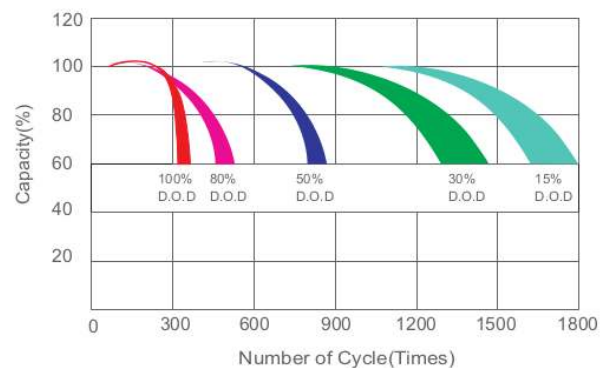
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTICS OF CYCLIC USE



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25°C)	50 Ah (C10)
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	75 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 RFC12-50** 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: 277 mm

Width: 106 mm

Height: 221 mm

Total Height: 221 mm

Weight: 17 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.

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) · [See all RFC series models](#)

Specialized Technical Support
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