

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

The RFC12-150 is a 12 V, 150 Ah (10-hour rate) AGM Deep Cycle lead-acid battery from the Rekoser Front Terminal Deep Cycle series. It measures 551 × 110 × 267 mm and weighs 37.5 kg, with F13 terminals. It stores 1.8 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 **RKC12-150FT**.



## 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) | 150 Ah (C10)       |
| Energy          | 1800 Wh            |
| Weight          | 37.5 kg            |
| Terminal        | F13                |
| Dimensions      | 551 × 110 × 267 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)

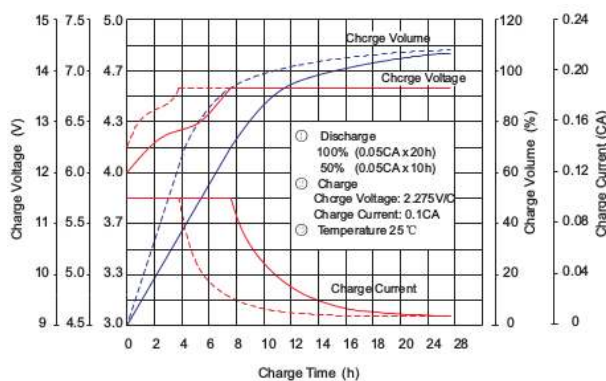
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11.10 V    | 212A | 181A  | 171A  | 123A  | 78.7A | 37A   | 24.3A | 14.5A | 7.5A  |
| 10.80 V    | 248A | 201A  | 188A  | 130A  | 81A   | 38.8A | 25.5A | 15A   | 7.95A |
| 10.50 V    | 280A | 221A  | 202A  | 136A  | 85A   | 39.6A | 25.8A | 15.3A | 7.99A |
| 10.20 V    | 323A | 238A  | 217A  | 141A  | 86.8A | 40.2A | 26.2A | 15.5A | 8.1A  |
| 10.02 V    | 361A | 262A  | 230A  | 147A  | 88.9A | 40.7A | 26.3A | 15.7A | 8.18A |
| 9.60 V     | 405A | 284A  | 244A  | 153A  | 91.2A | 41.2A | 26.7A | 15.9A | 8.25A |

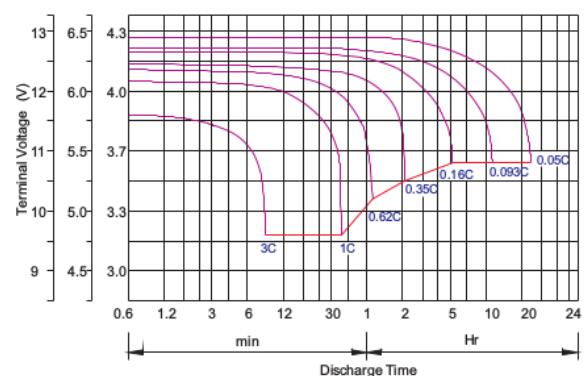
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|------|-------|-------|-------|-------|
| 11.10 V    | 400W | 344W  | 327W  | 237W  | 153W | 72.7W | 48.1W | 28.9W | 15.1W |
| 10.80 V    | 459W | 377W  | 356W  | 248W  | 156W | 75.6W | 50.1W | 29.8W | 15.8W |
| 10.50 V    | 513W | 410W  | 378W  | 257W  | 162W | 76.4W | 50.2W | 30.2W | 15.9W |
| 10.20 V    | 582W | 436W  | 402W  | 264W  | 164W | 77W   | 50.3W | 30.4W | 16W   |
| 10.02 V    | 645W | 475W  | 422W  | 272W  | 167W | 77.3W | 50.5W | 30.5W | 16W   |
| 9.60 V     | 713W | 510W  | 445W  | 284W  | 170W | 77.8W | 50.8W | 30.7W | 16W   |

CHARGE CHARACTERISTICS



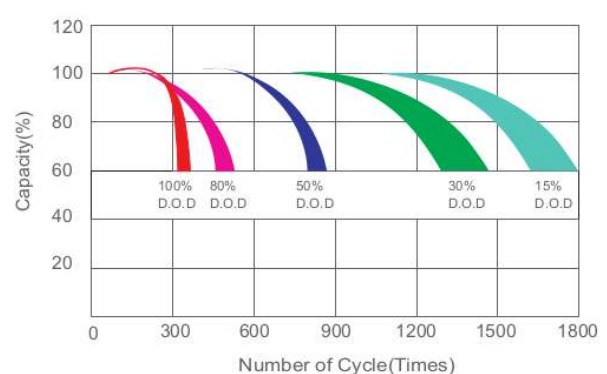
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTICS OF CYCLIC USE



## SPECIFICATIONS

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                                  |
| Capacity (25°C)                  | 150 Ah (C10), 159 Ah (C20)                                                            |
| Energy                           | 1800 Wh                                                                               |
| Cell number                      | 6                                                                                     |
| Charge Voltage (25°C)            | Cycle use: 14.6-14.8V (-30mV/C), max. Current 2.1A<br>Float use: 13.6-13.8V (-20mV/C) |
| Max. Charge Current              | 37.5 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 RFC12-150** 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:** 551 mm

**Width:** 110 mm

**Height:** 267 mm

**Total Height:** 287 mm

**Weight:** 37.5 kg

### 2. TERMINAL CONFIGURATION (F13)

**Terminals:** Ensure your system's connectors match the F13 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 37.5 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

**RFC12-100** (12 V · 100 Ah) · **RFC12-170** (12 V · 170 Ah) · [See all RFC series models](#)

The same battery in other series: **RDC12-150** (RDC Series – Deep Cycle (AGM))

Specialized Technical Support

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