

RFC Series – Front Terminal Deep Cycle

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

Rekoser Front Terminal Deep Cycle AGM battery. EUROBAT-classified >12 Years (Very Long Life), it merges deep-cycle endurance with front-access rack integration for critical sites with frequent grid outages: remote telecom and microgrids with intensive cyclic backup.



MODELS	NOMINAL VOLTAGE	CAPACITY	DESIGN LIFE
7	12 V	50–200 Ah	12 years
WARRANTY	EUROBAT		
2 years	>12 Years (Very Long Life)		

✓ Key features

- 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

⚙ Applications

- Telecommunications and Base Stations**
Critical backup for network infrastructures and mobile base stations in remote locations with extreme weather conditions.
- Microgrids and Off-Grid Sites**
Cyclic backup at sites with frequent grid outages or no grid at all.

✓ Standards and certifications

- CE CERTIFIED
- ISO 9001 / 14001
- IEC 60896-21/22
- JIS C8704
- GB/T19639

 RFC series models

Each model links to its datasheet with discharge tables, dimensions and charge parameters. Rated capacity at 25 °C; C20 = 20-hour rate.

Model	Nominal Voltage	Capacity	Length (mm)	Width (mm)	Height (mm)	Weight (kgs)	Terminal
RFC12-50 (formerly RKC12-50FT)	12 V	50 Ah (C10)	277	106	221	17	F11
RFC12-75 (formerly RKC12-75FT)	12 V	75 Ah (C10)	564	115	189	25	F11
RFC12-100 (formerly RKC12-100FT)	12 V	100 Ah (C10)	508	110	223	31	
RFC12-150 (formerly RKC12-150FT)	12 V	150 Ah (C10)	551	110	267	37.5	F13
RFC12-170 (formerly RKC12-170FT)	12 V	170 Ah (C10)	560	125	316	52	M8
RFC12-180 (formerly RKC12-180FT)	12 V	180 Ah (C10)	560	126	316	53	M8
RFC12-200 (formerly RKC12-200FT)	12 V	200 Ah (C10)	560	126	316	58	M8

 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

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)

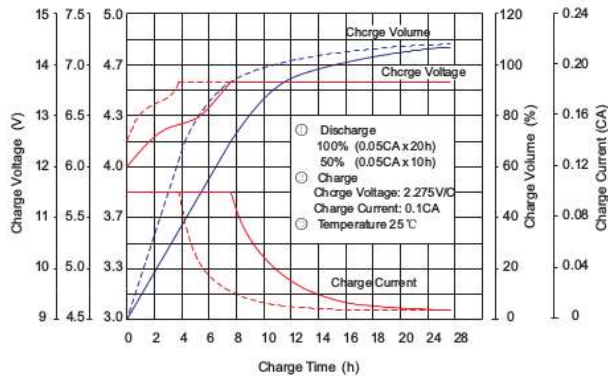
Constant Discharge Ratings (A) at 25°C

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

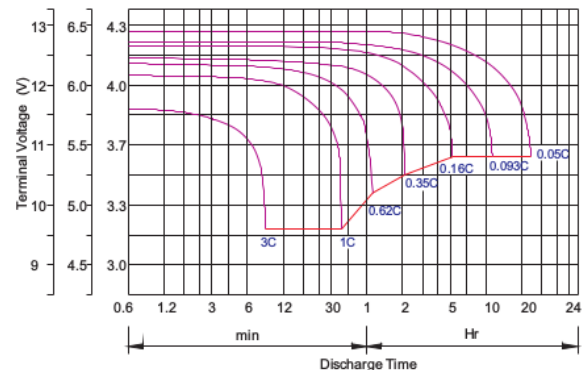
Constant Discharge Ratings (W) at 25°C

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

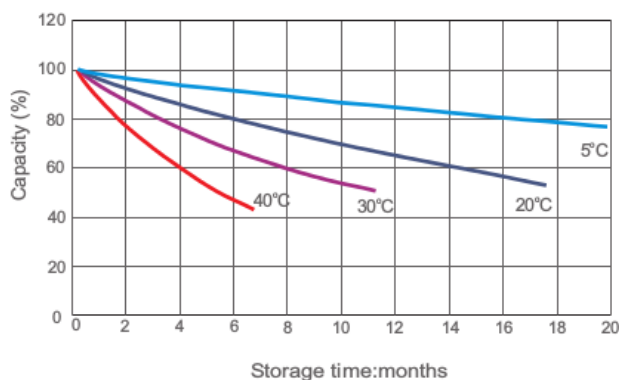
CHARGE CHARACTERISTICS



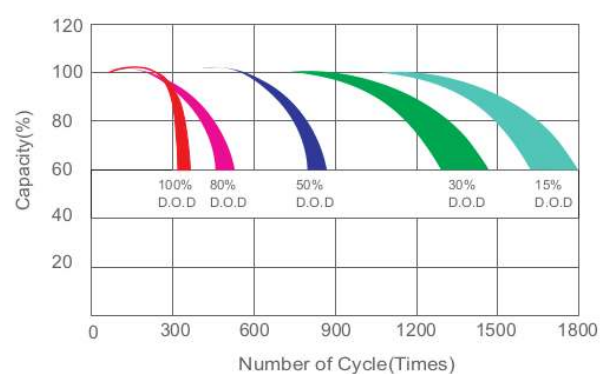
DISCHARGE CHARACTERISTIC 25oC



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

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

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

The RFC12-75 is a 12 V, 75 Ah (10-hour rate) AGM Deep Cycle lead-acid battery from the Rekoser Front Terminal Deep Cycle series. It measures 564 × 115 × 189 mm and weighs 25 kg, with F11 terminals. It stores 900 Wh and delivers up to 600 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 **RKC12-75FT**.

Nominal Voltage	12 V
Capacity (25°C)	75 Ah (C10)
Energy	900 Wh
Weight	25 kg
Terminal	F11
Dimensions	564 × 115 × 189 mm

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

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)

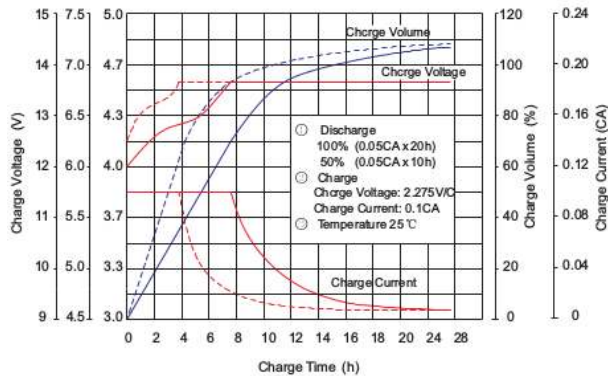
Constant Discharge Ratings (A) at 25°C

F.V / Time	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
10.80 V	138A	104A	65.6A	42.4A	18.2A	12.7A	7.5A	3.94A
10.50 V	143A	110A	68.1A	43.8A	18.8A	13.1A	7.55A	3.97A
10.20 V	148A	114A	69.8A	44.6A	18.9A	13.2A	7.6A	3.99A
10.02 V	151A	118A	72A	45.8A	19A	13.3A	7.62A	4A
9.60 V	154A	121A	73.5A	46.5A	19.1A	13.4A	7.64A	4.01A

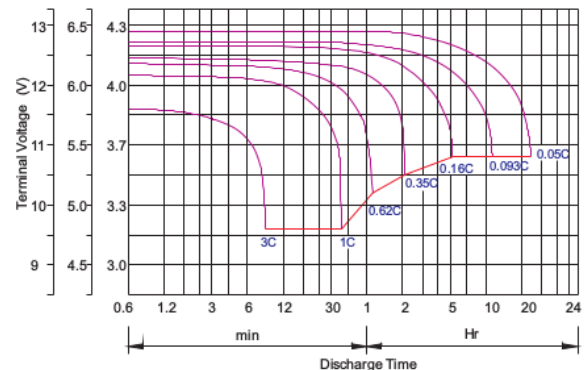
Constant Discharge Ratings (W) at 25°C

F.V / Time	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
10.80 V	1520W	1145W	736W	483W	214W	150W	89.6W	47.3W
10.50 V	1590W	1209W	764W	499W	221W	155W	90.2W	47.6W
10.20 V	1625W	1252W	783W	509W	222W	156W	90.7W	47.9W
10.02 V	1688W	1300W	808W	522W	225W	157W	91W	48W
9.60 V	1720W	1332W	825W	530W	225W	158W	91.2W	48.1W

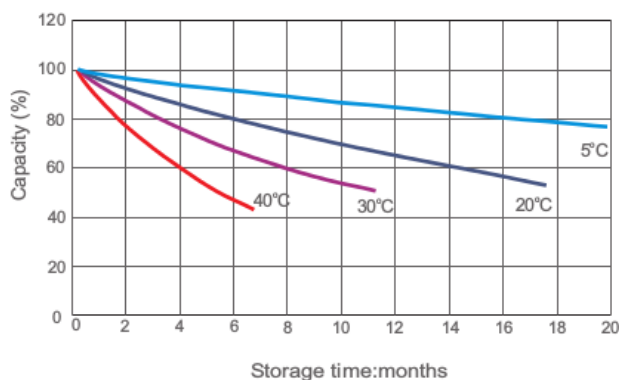
CHARGE CHARACTERISTICS



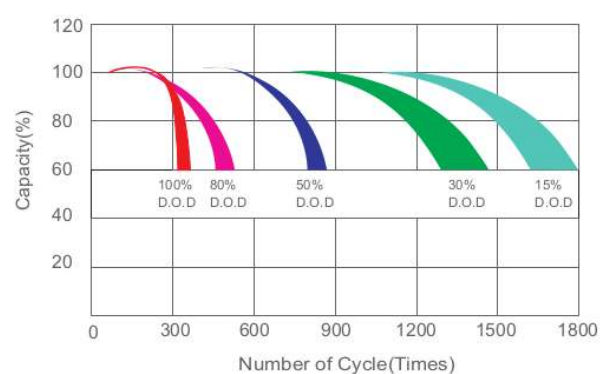
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTICS OF CYCLIC USE



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25°C)	75 Ah (C10)
Energy	900 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	22.5 A
Max. Discharge Current	600 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 RFC12-75** 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:

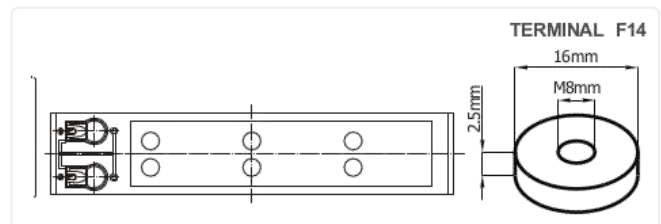
Length: 564 mm

Width: 115 mm

Height: 189 mm

Total Height: 189 mm

Weight: 25 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 22.5 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

RFC12-50 (12 V · 50 Ah) · **RFC12-100** (12 V · 100 Ah) · [See all RFC series models](#)

The same battery in other series: **RDC12-75** (RDC Series – Deep Cycle (AGM))

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

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)

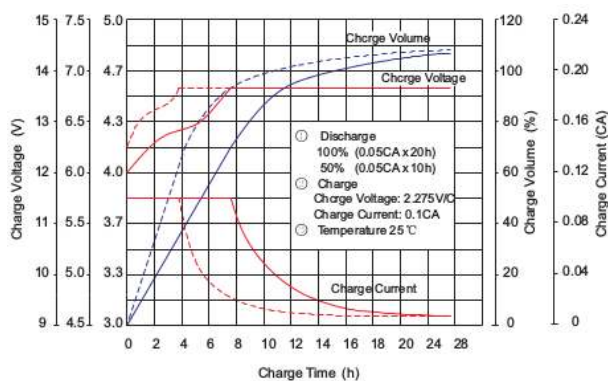
Constant Discharge Ratings (A) at 25°C

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

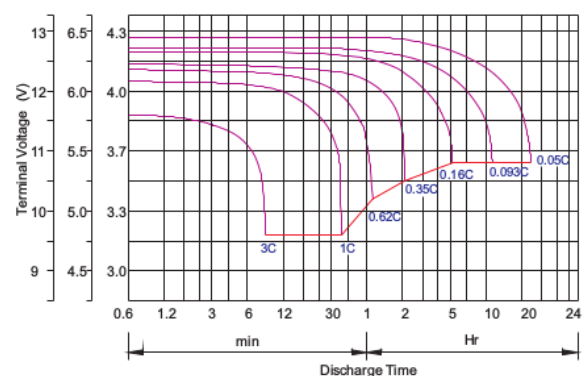
Constant Discharge Ratings (W) at 25°C

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

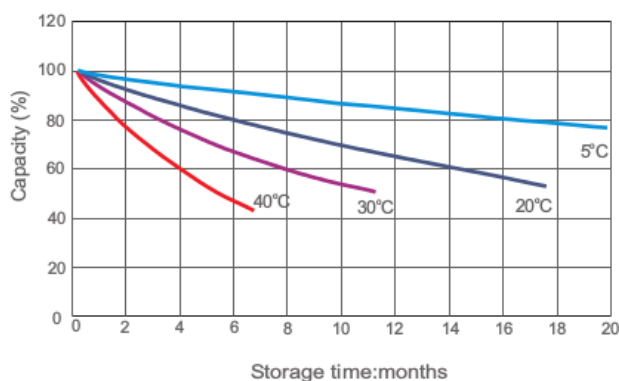
CHARGE CHARACTERISTICS



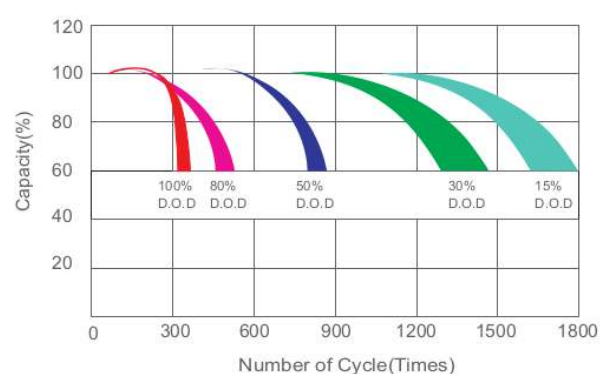
DISCHARGE CHARACTERISTIC 25oC



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:

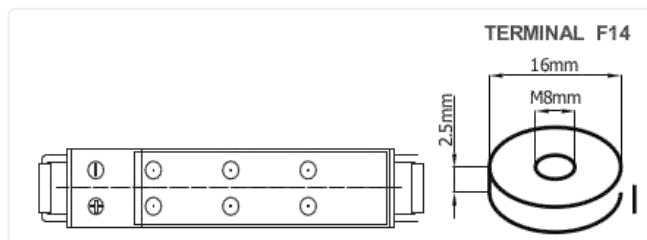
Length: 508 mm

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

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)

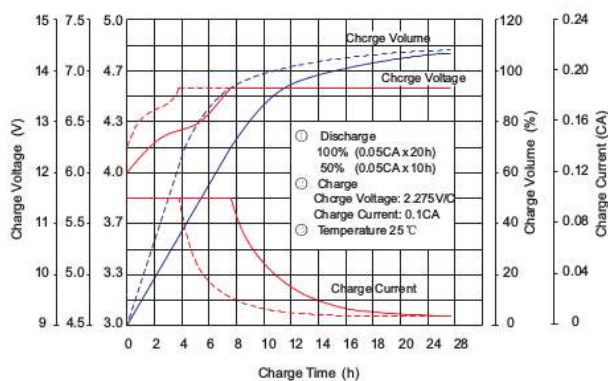
Constant Discharge Ratings (A) at 25°C

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

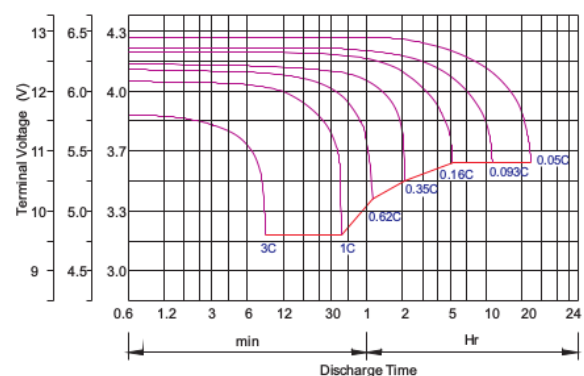
Constant Discharge Ratings (W) at 25°C

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

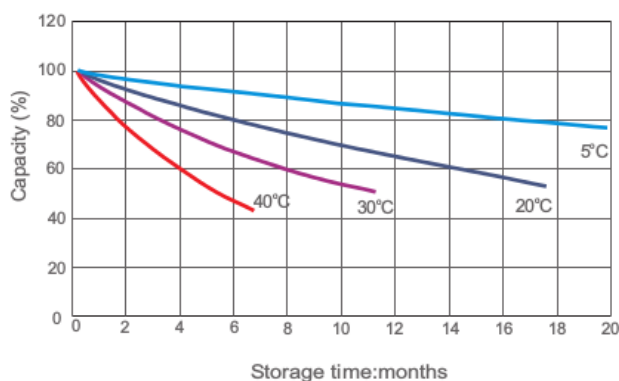
CHARGE CHARACTERISTICS



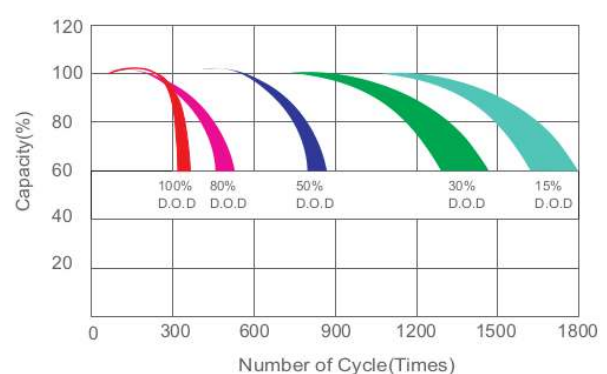
DISCHARGE CHARACTERISTIC 25oC



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 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))

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

The RFC12-170 is a 12 V, 170 Ah (10-hour rate) AGM Deep Cycle lead-acid battery from the Rekoser Front Terminal Deep Cycle series. It measures 560 × 125 × 316 mm and weighs 52 kg, with M8 terminals. It stores 2.04 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 **RKC12-170FT**.

Nominal Voltage	12 V
Capacity (25°C)	170 Ah (C10)
Energy	2040 Wh
Weight	52 kg
Terminal	M8
Dimensions	560 × 125 × 316 mm

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

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)

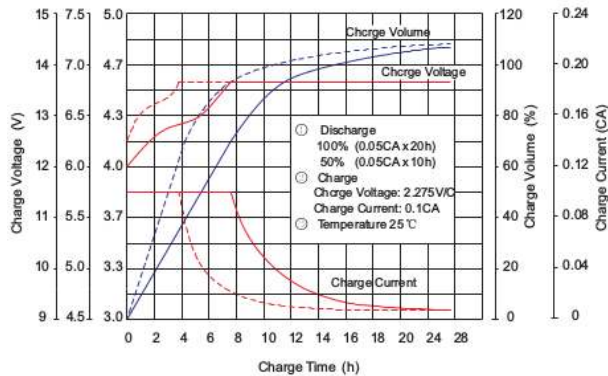
Constant Discharge Ratings (A) at 25°C

F.V / Time	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
9.60 V	275A	167A	105A	43.4A	30.3A	17.3A	9.09A
10.02 V	268A	163A	104A	43.1A	30.2A	17.3A	9.07A
10.20 V	258A	158A	101A	42.8A	30A	17.2A	9.04A
10.50 V	250A	154A	99.2A	42.5A	29.8A	17.1A	8.99A
10.80 V	236A	149A	96.1A	41.2A	28.9A	17A	8.93A

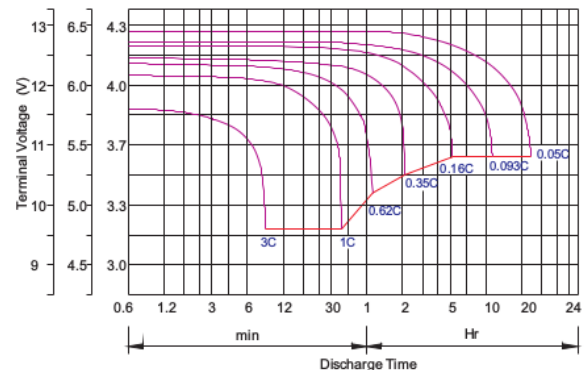
Constant Discharge Ratings (W) at 25°C

F.V / Time	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
9.60 V	856W	612W	534W	340W	204W	93.3W	61W
10.02 V	773W	570W	507W	327W	200W	92.8W	60.3W
10.20 V	699W	523W	483W	317W	197W	92.3W	60.6W
10.50 V	615W	492W	453W	309W	194W	91.7W	60.3W
10.80 V	551W	452W	427W	298W	187W	90.7W	60.1W

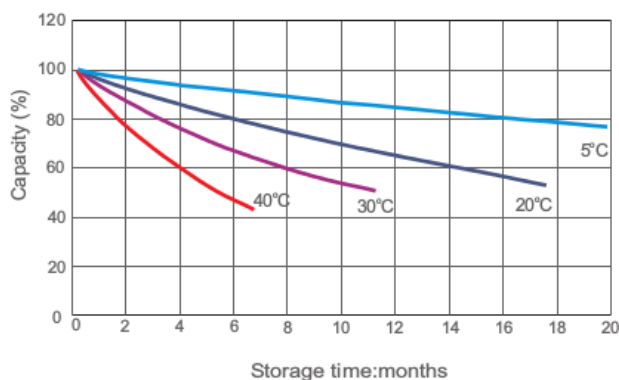
CHARGE CHARACTERISTICS



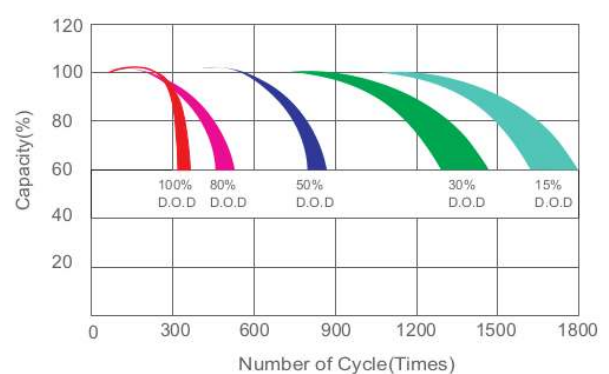
DISCHARGE CHARACTERISTIC 25°C



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTICS OF CYCLIC USE



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25°C)	170 Ah (C10)
Energy	2040 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	42.5 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 RFC12-170** 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: 560 mm

Width: 125 mm

Height: 316 mm

Total Height: 316 mm

Weight: 52 kg

2. TERMINAL CONFIGURATION (M8)

Terminals: Ensure your system's connectors match the M8 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 42.5 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

RFC12-150 (12 V · 150 Ah) · **RFC12-180** (12 V · 180 Ah) · [See all RFC series models](#)

Specialized Technical Support

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

The RFC12-180 is a 12 V, 180 Ah (10-hour rate) AGM Deep Cycle lead-acid battery from the Rekoser Front Terminal Deep Cycle series. It measures 560 × 126 × 316 mm and weighs 53 kg, with M8 terminals. It stores 2.16 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 **RKC12-180FT**.

Nominal Voltage	12 V
Capacity (25°C)	180 Ah (C10)
Energy	2160 Wh
Weight	53 kg
Terminal	M8
Dimensions	560 × 126 × 316 mm

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

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)

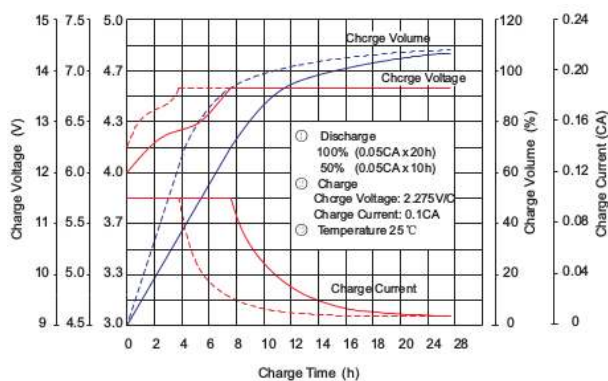
Constant Discharge Ratings (A) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	255A	217A	206A	147A	94.4A	44.4A	29.2A	17.4A	9A
10.80 V	298A	241A	226A	156A	97.2A	46.6A	30.6A	18A	9.54A
10.50 V	336A	265A	242A	164A	102A	47.5A	31A	18.4A	9.59A
10.20 V	387A	285A	260A	169A	104A	48.3A	31.4A	18.6A	9.72A
10.02 V	434A	314A	276A	176A	107A	48.8A	31.5A	18.8A	9.81A
9.60 V	486A	341A	293A	184A	109A	49.4A	32A	19.1A	9.9A

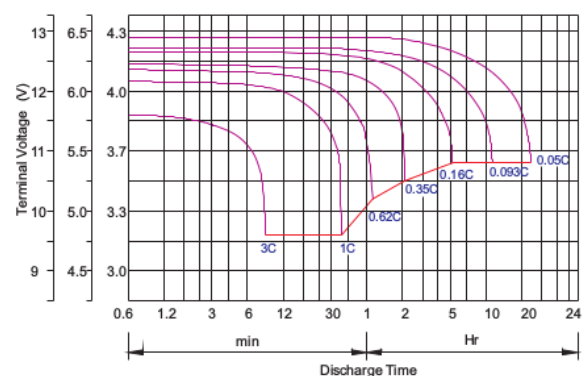
Constant Discharge Ratings (W) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	480W	412W	393W	284W	183W	87.2W	57.7W	34.7W	18.1W
10.80 V	551W	452W	427W	298W	187W	90.7W	60.1W	35.8W	19.1W
10.50 V	615W	492W	453W	309W	194W	91.7W	60.3W	36.2W	19W
10.20 V	699W	523W	483W	317W	197W	92.3W	60.6W	36.4W	19.2W
10.02 V	773W	570W	507W	327W	200W	92.8W	60.3W	36.6W	19.2W
9.60 V	856W	612W	534W	340W	204W	93.3W	61W	36.9W	19.2W

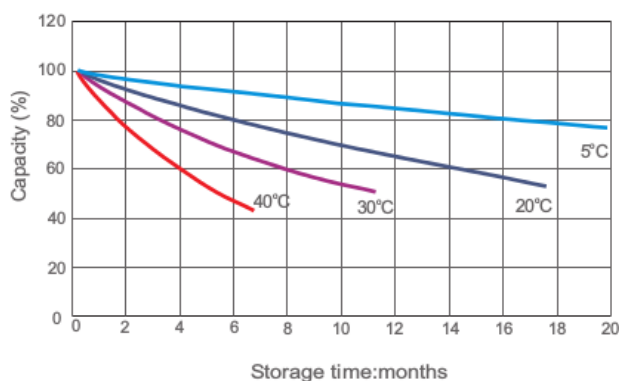
CHARGE CHARACTERISTICS



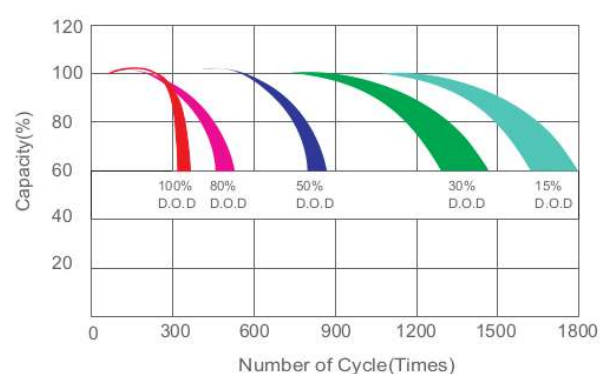
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTICS OF CYCLIC USE



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25°C)	180 Ah (C10)
Energy	2160 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	45 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 RFC12-180** 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:

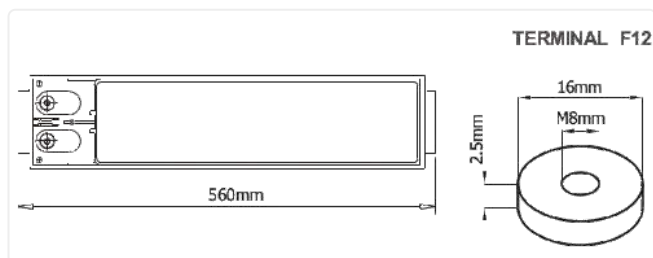
Length: 560 mm

Width: 126 mm

Height: 316 mm

Total Height: 316 mm

Weight: 53 kg



2. TERMINAL CONFIGURATION (M8)

Terminals: Ensure your system's connectors match the M8 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 45 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

RFC12-170 (12 V · 170 Ah) · **RFC12-200** (12 V · 200 Ah) · [See all RFC series models](#)

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

The RFC12-200 is a 12 V, 200 Ah (10-hour rate) AGM Deep Cycle lead-acid battery from the Rekoser Front Terminal Deep Cycle series. It measures 560 × 126 × 316 mm and weighs 58 kg, with M8 terminals. It stores 2.4 kWh and delivers up to 1500 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 **RKC12-200FT**.

Nominal Voltage	12 V
Capacity (25°C)	200 Ah (C10)
Energy	2400 Wh
Weight	58 kg
Terminal	M8
Dimensions	560 × 126 × 316 mm

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

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)

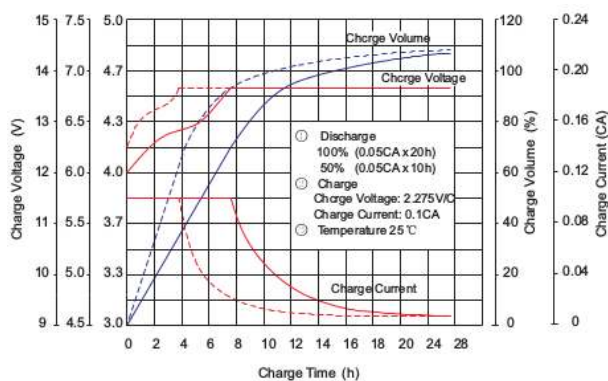
Constant Discharge Ratings (A) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	283A	241A	229A	163A	105A	49.3A	32.4A	19.2A	10A
10.80 V	331A	267A	251A	173A	108A	51.7A	34A	20A	10.5A
10.50 V	373A	294A	269A	182A	113A	52.7A	34.4A	20.4A	10.6A
10.20 V	430A	316A	286A	187A	115A	53.6A	34.8A	20.6A	10.8A
10.02 V	482A	348A	297A	190A	119A	54.2A	34.9A	20.9A	10.9A
9.60 V	540A	378A	304A	192A	121A	54.8A	35.5A	21.2A	11A

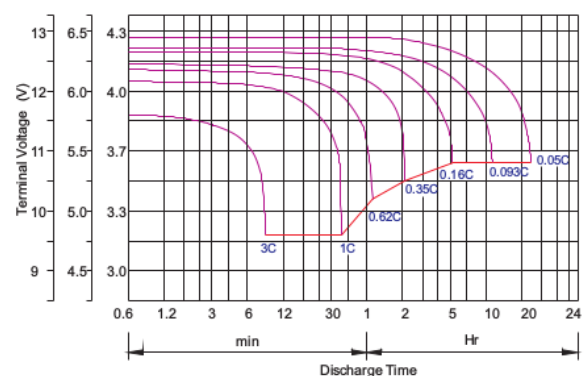
Constant Discharge Ratings (W) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
11.10 V	533W	457W	436W	315W	203W	96.8W	63.8W	38.5W	20.1W
10.80 V	612W	502W	474W	331W	207W	99.8W	66.7W	39.7W	21.1W
10.50 V	683W	546W	503W	343W	213W	100W	66.9W	40.2W	21.2W
10.20 V	776W	581W	536W	352W	215W	101W	66.9W	40.4W	21.3W
10.02 V	858W	633W	563W	363W	222W	102W	67.3W	40.6W	21.3W
9.60 V	950W	679W	593W	377W	226W	103W	67.8W	41W	21.3W

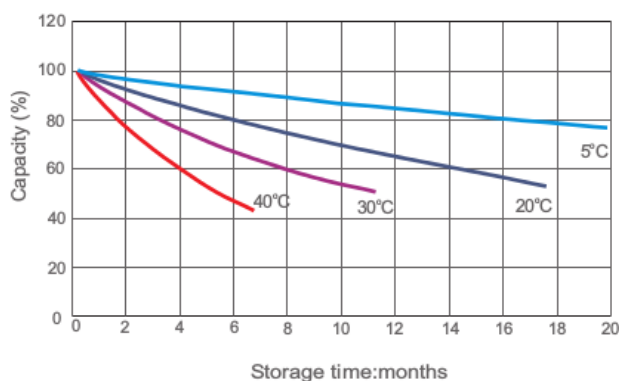
CHARGE CHARACTERISTICS



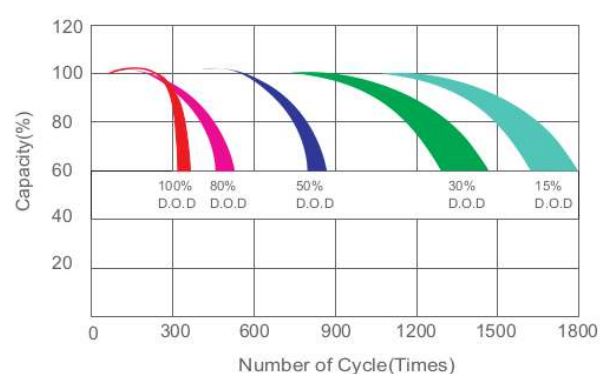
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTICS OF CYCLIC USE



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25°C)	200 Ah (C10)
Energy	2400 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	50 A
Max. Discharge Current	1500 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 RFC12-200** 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: 560 mm

Width: 126 mm

Height: 316 mm

Total Height: 316 mm

Weight: 58 kg

2. TERMINAL CONFIGURATION (M8)

Terminals: Ensure your system's connectors match the M8 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 50 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

RFC12-180 (12 V · 180 Ah) · [See all RFC series models](#)

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