

RFG Series – Front Terminal Deep Gel

Maximum thermal resilience and extreme cyclic stability for outdoor telecom cabinets.

The RFG Series combines the accessibility of front-access design with the extreme resilience of pure Gel technology (Nano-silica Gel). Classified by EUROBAT as 'Very Long Life' (12+ years), this series is designed to excel where others fail: outdoor cabinets and areas with high ambient temperatures. The gelled electrolyte prevents acid stratification and thermal runaway, ensuring superior service life even under unstable charging cycles. It is the most robust commercial choice for global operators requiring absolute reliability in the most demanding climatic conditions.

MODELS	NOMINAL VOLTAGE	CAPACITY	DESIGN LIFE
2	12 V	180–200 Ah	12 years
WARRANTY	EUROBAT		
2 years	>12 Years (Very Long Life)		

✓ Key features

- Electrolyte:** Pure Nano-silica Gel to prevent acid stratification
- Thermal Stability:** High resistance to thermal runaway in outdoor environments
- Deep Discharge:** Excellent recovery after severe discharge cycles
- Longevity:** Enhanced cycle life in high ambient temperatures

⚙ Applications

Telecommunications and Base Stations
Critical backup for network infrastructures and mobile base stations in remote locations with extreme weather conditions.

🏆 Standards and certifications

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

 RFG 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
RFG12-180 (formerly RKG12-180FT)	12 V	180 Ah (C10)	560	126	316	56	M8
RFG12-200	12 V	200 Ah (C10)	560	126	316	57	

 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

Maximum thermal resilience and extreme cyclic stability for outdoor telecom cabinets.

The RFG12-180 is a 12 V, 180 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Front Terminal Deep Gel series. It measures 560 × 126 × 316 mm and weighs 56 kg, with M8 terminals. It stores 2.16 kWh and delivers up to 1000 A. Maximum thermal resilience and extreme cyclic stability for outdoor telecom cabinets. Typical applications: Telecommunications and Base Stations.

Formerly **RKG12-180FT**.

Nominal Voltage	12 V
Capacity (25°C)	180 Ah (C10)
Energy	2160 Wh
Weight	56 kg
Terminal	M8
Dimensions	560 × 126 × 316 mm

MAIN ADVANTAGES

- ✓ **Electrolyte:** Pure Nano-silica Gel to prevent acid stratification
- ✓ **Thermal Stability:** High resistance to thermal runaway in outdoor environments
- ✓ **Deep Discharge:** Excellent recovery after severe discharge cycles
- ✓ **Longevity:** Enhanced cycle life in high ambient temperatures

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**

QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC 60896-21/22

JIS C8704

GB/T19639

GRAPHICS (25°C)

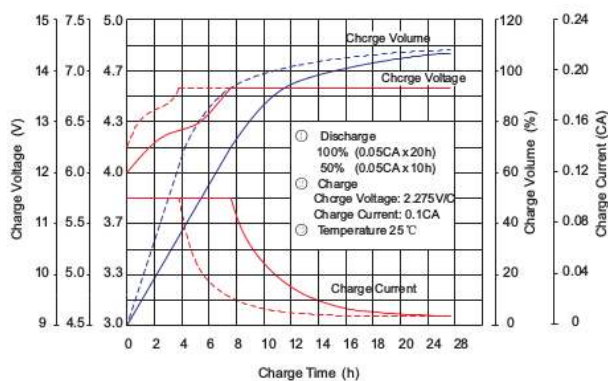
Constant Discharge Ratings (A) at 25°C

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

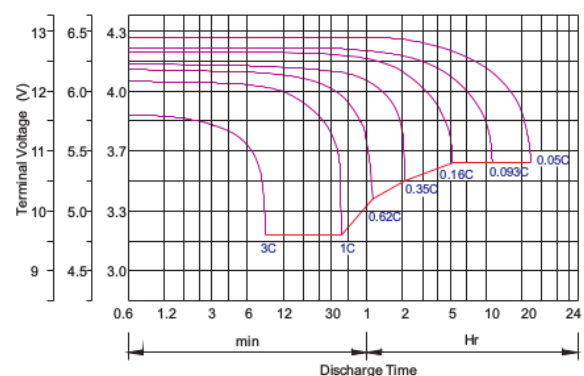
Constant Discharge Ratings (W) at 25°C

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

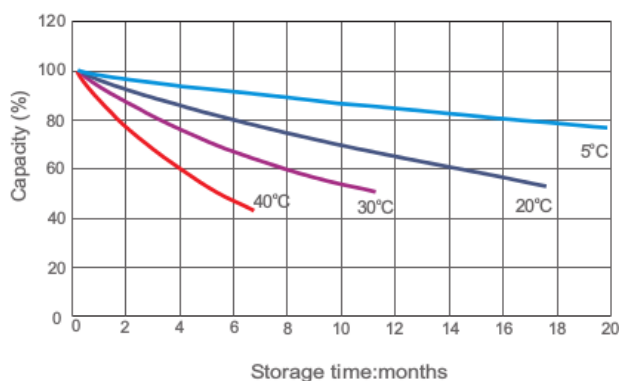
CHARGE CHARACTERISTICS



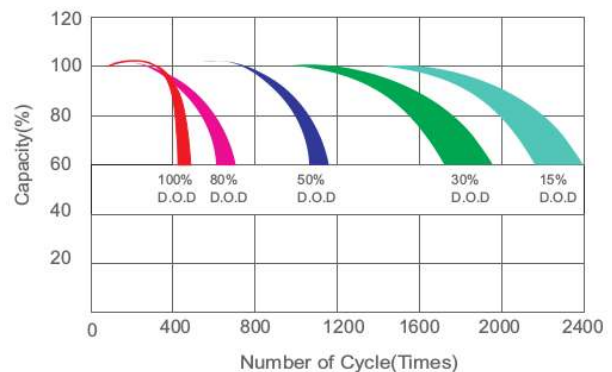
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC 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 RFG12-180** 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: 56 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 gel battery, maintenance-free and leak-proof.

Charging: Keep to the stated charge voltage: gel is sensitive to overcharging.

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

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

NEARBY MODELS

RFG12-200 (12 V · 200 Ah) · [See all RFG series models](#)

The same battery in other series: **RDG12-180** (RDG Series – Deep Gel)

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

Maximum thermal resilience and extreme cyclic stability for outdoor telecom cabinets.

The RFG12-200 is a 12 V, 200 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Front Terminal Deep Gel series. It measures 560 × 126 × 316 mm and weighs 57 kg. It stores 2.4 kWh and delivers up to 2000 A. Maximum thermal resilience and extreme cyclic stability for outdoor telecom cabinets. Typical applications: Telecommunications and Base Stations.

Nominal Voltage	12 V
Capacity (25°C)	200 Ah (C10)
Energy	2400 Wh
Weight	57 kg
Dimensions	560 × 126 × 316 mm

MAIN ADVANTAGES

- ✓ **Electrolyte:** Pure Nano-silica Gel to prevent acid stratification
- ✓ **Thermal Stability:** High resistance to thermal runaway in outdoor environments
- ✓ **Deep Discharge:** Excellent recovery after severe discharge cycles
- ✓ **Longevity:** Enhanced cycle life in high ambient temperatures

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**

QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC 60896-21/22

JIS C8704

GB/T19639

GRAPHICS (25°C)

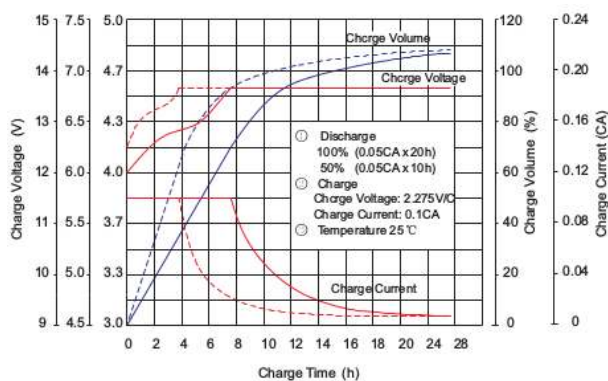
Constant Discharge Ratings (A) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
11.10 V	283A	241A	229A	163A	105A	63.6A	49.3A	39.2A	32.4A	23.1A	19.2A	10A
10.80 V	331A	267A	251A	173A	108A	66.2A	51.7A	40.4A	34A	24A	20A	10.5A
10.50 V	373A	294A	269A	182A	113A	68.2A	52.7A	41.4A	34.4A	24.5A	20.4A	10.6A
10.20 V	430A	316A	286A	187A	115A	69.4A	53.6A	41.8A	34.8A	25A	20.6A	10.8A
10.02 V	482A	348A	297A	190A	119A	70.3A	54.2A	42.3A	34.9A	25.2A	20.9A	10.9A
9.60 V	540A	378A	304A	192A	121A	71.5A	54.8A	43.2A	35.5A	25.5A	21.2A	11A

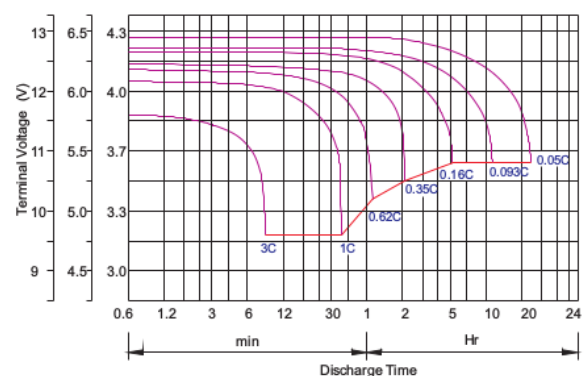
Constant Discharge Ratings (W) at 25°C

F.V / Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
11.10 V	533W	457W	436W	315W	203W	124W	96.8W	77.4W	63.8W	46.1W	38.5W	20.1W
10.80 V	612W	502W	474W	331W	207W	128W	99.8W	79.1W	66.7W	47.5W	39.7W	21.1W
10.50 V	683W	546W	503W	343W	215W	130W	100W	80.3W	66.9W	48.1W	40.2W	21.2W
10.20 V	776W	581W	536W	352W	213W	132W	101W	80.4W	67.3W	48.6W	40.4W	21.3W
10.02 V	858W	633W	563W	363W	222W	133W	102W	80.7W	66.9W	48.7W	40.6W	21.3W
9.60 V	950W	679W	593W	377W	226W	143W	103W	81.9W	67.8W	49W	41W	21.3W

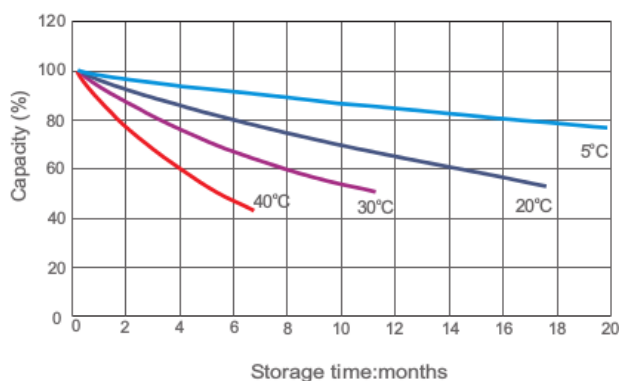
CHARGE CHARACTERISTICS



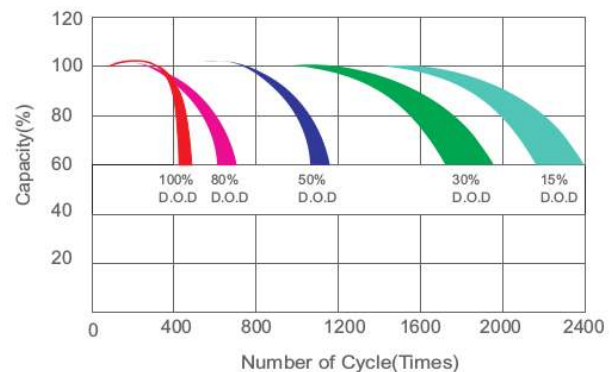
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC 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: 13.6-13.8V (-3mV/ cell/ oC) Float use: 14.4-14.8V (-5mV/ cell / oC)
Max. Charge Current	60 A
Max. Discharge Current	2000 A
Internal Resistance	0.003 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 RFG12-200** 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

Weight: 57 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: 13.6-13.8V (-3mV/ cell/ oC)

Float use: 14.4-14.8V (-5mV/ cell / oC)

Maximum Current: Do not exceed 60 A of charge.

4. SAFETY AND STORAGE

Maintenance: Sealed gel battery, maintenance-free and leak-proof.

Charging: Keep to the stated charge voltage: gel is sensitive to overcharging.

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

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

NEARBY MODELS

RFG12-180 (12 V · 180 Ah) · [See all RFG series models](#)

The same battery in other series: **RDG12-200** (RDG Series – Deep Gel)

Specialized Technical Support

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