

# RDG Series – Deep Gel

Deep cycling with full recovery from deep discharge.

The RDG Series is the ultimate 'all-terrain' battery, combining deep cycle endurance with the thermal resilience of gelled electrolyte (Nano-silica Gel). Classified by EUROBAT as 'High Performance', this series offers a 12-year design life, standing out for its ability to operate in extreme temperature environments and constant vibrations without the risk of thermal runaway. Its advanced engineering allows for total recovery after severe deep discharges, making it the most powerful commercial choice for off-grid renewable energy installations, marine use, and industrial environments where reliability is critical and maintenance must be non-existent.



|          |                                |           |             |
|----------|--------------------------------|-----------|-------------|
| MODELS   | NOMINAL VOLTAGE                | CAPACITY  | DESIGN LIFE |
| 19       | 6 V, 12 V                      | 26–260 Ah | 12 years    |
| WARRANTY | EUROBAT                        |           |             |
| 2 years  | 10-12 Years (High Performance) |           |             |

## Key features

- Recovery:** Superior performance after deep discharges
- Stable:** Low electrolyte stratification
- Longevity:** Excellent cycle life in harsh conditions
- Gel Tech:** Thixotropic gel electrolyte

## Applications

- Solar/Wind Energy Systems**  
Energy storage for deep-cycle photovoltaic and wind systems, ensuring stable power supply even during low generation periods.
- Electrical Substations**  
Backup systems for control, switching, and protection equipment in high and medium voltage electrical substations.
- Telecommunications and Base Stations**  
Critical backup for network infrastructures and mobile base stations in remote locations with extreme weather conditions.
- UPS and Data Centers**

## Standards and certifications

- CE CERTIFIED
- ISO 9001 / 14001
- IEC61427
- IEC 60896-21/22
- YD/T1360
- BS6290 part 4

 RDG 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 |
|---------------------------------------|-----------------|--------------|-------------|------------|-------------|--------------|----------|
| <b>RDG6-180</b> (formerly RKG6-180)   | 6 V             | 180 Ah (C10) | 306         | 168        | 226         | 27.5         | F13      |
| <b>RDG6-200</b> (formerly RKG6-200)   | 6 V             | 200 Ah (C10) | 306         | 168        | 226         | 30           | F13      |
| <b>RDG12-26</b> (formerly RKG12-26)   | 12 V            | 26 Ah (C10)  | 166         | 175        | 125         | 8.3          | F11      |
| <b>RDG12-40</b> (formerly RKG12-40)   | 12 V            | 40 Ah (C10)  | 197         | 165        | 170         | 13           | F14      |
| <b>RDG12-50</b> (formerly RKG12-50)   | 12 V            | 50 Ah (C10)  | 229         | 138        | 208         | 15.5         | F11      |
| <b>RDG12-55</b> (formerly RKG12-55)   | 12 V            | 55 Ah (C10)  | 229         | 138        | 208         | 17           | F11      |
| <b>RDG12-60</b> (formerly RKG12-60)   | 12 V            | 60 Ah (C10)  | 260         | 168        | 211         | 20           | F11      |
| <b>RDG12-70</b> (formerly RKG12-70)   | 12 V            | 70 Ah (C10)  | 260         | 166        | 211         | 22           | F11      |
| <b>RDG12-80</b> (formerly RKG12-80)   | 12 V            | 80 Ah (C10)  | 350         | 167        | 179         | 23           | F11      |
| <b>RDG12-90</b> (formerly RKG12-90)   | 12 V            | 90 Ah (C10)  | 306         | 169        | 208         | 26.5         | F14      |
| <b>RDG12-100</b> (formerly RKG12-100) | 12 V            | 100 Ah (C10) | 328         | 171        | 214         | 30           | F14      |
| <b>RDG12-120</b> (formerly RKG12-120) | 12 V            | 120 Ah (C10) | 410         | 176        | 227         | 34           | F12      |
| <b>RDG12-135</b> (formerly RKG12-135) | 12 V            | 135 Ah (C10) | 342         | 172        | 273         | 42           | F12      |
| <b>RDG12-150</b> (formerly RKG12-150) | 12 V            | 150 Ah (C10) | 485         | 172        | 240         | 46           | F13      |
| <b>RDG12-180</b> (formerly RKG12-180) | 12 V            | 180 Ah (C10) | 530         | 207        | 218         | 53           | F12      |
| <b>RDG12-200</b> (formerly RKG12-200) | 12 V            | 200 Ah (C10) | 522         | 238        | 218         | 60           | F13      |
| <b>RDG12-225</b> (formerly RKG12-225) | 12 V            | 225 Ah (C10) | 522         | 238        | 218         | 64           | F13      |
| <b>RDG12-250</b> (formerly RKG12-250) | 12 V            | 250 Ah (C10) | 520         | 269        | 220         | 71           | F12      |
| <b>RDG12-260</b> (formerly RKG12-260) | 12 V            | 260 Ah (C10) | 520         | 269        | 220         | 72           | F13      |

 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                         |

## Deep cycling with full recovery from deep discharge.

The RDG6-180 is a 6 V, 180 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 306 × 168 × 226 mm and weighs 27.5 kg, with F13 terminals. It stores 1.08 kWh and delivers up to 1000 A. Deep cycling with full recovery from deep discharge. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and UPS and Data Centers.

Formerly **RKG6-180**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 6 V                |
| Capacity (25°C) | 180 Ah (C10)       |
| Energy          | 1080 Wh            |
| Weight          | 27.5 kg            |
| Terminal        | F13                |
| Dimensions      | 306 × 168 × 226 mm |

## MAIN ADVANTAGES

- ✓ **Recovery:** Superior performance after deep discharges
- ✓ **Stable:** Low electrolyte stratification
- ✓ **Longevity:** Excellent cycle life in harsh conditions
- ✓ **Gel Tech:** Thixotropic gel electrolyte

**12**  
YEARS

**LONG LIFE DESIGN**

\* EUROBAT CLASSIFICATION: 10-12 Years (High Performance).

**2**  
YEARS

**WARRANTY**

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

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS AND BASE STATIONS**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

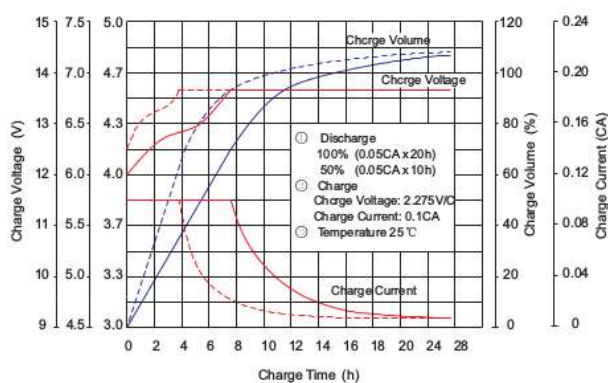
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|------|-------|-------|-------|-------|
| 5.55 V     | 283A | 254A  | 231A  | 162A  | 105A | 46.5A | 31.2A | 17.5A | 9.23A |
| 5.40 V     | 331A | 282A  | 254A  | 172A  | 110A | 48.1A | 31.9A | 18A   | 9.45A |
| 5.25 V     | 374A | 310A  | 272A  | 180A  | 113A | 49A   | 32.7A | 18.4A | 9.63A |
| 5.10 V     | 430A | 334A  | 293A  | 186A  | 116A | 49.8A | 33.1A | 18.6A | 9.82A |
| 5.01 V     | 482A | 367A  | 310A  | 194A  | 118A | 50.4A | 33.4A | 18.8A | 10A   |
| 4.80 V     | 540A | 398A  | 329A  | 203A  | 122A | 51A   | 33.9A | 19.1A | 10.3A |

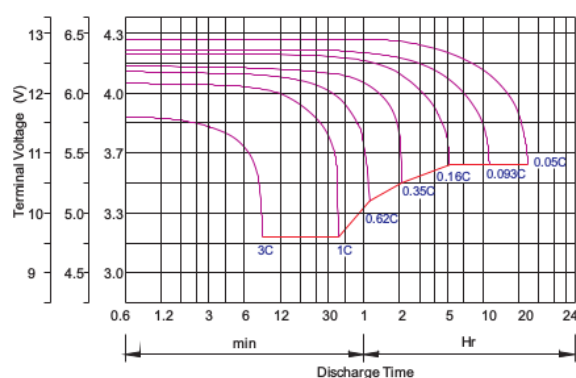
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|------|-------|-------|-------|-------|
| 5.55 V     | 533W | 482W  | 442W  | 313W  | 203W | 91.3W | 61.7W | 35W   | 18.5W |
| 5.40 V     | 612W | 529W  | 480W  | 328W  | 211W | 93.6W | 62.7W | 35.8W | 18.9W |
| 5.25 V     | 684W | 575W  | 510W  | 340W  | 216W | 94.6W | 63.7W | 36.2W | 19.1W |
| 5.10 V     | 776W | 612W  | 543W  | 349W  | 219W | 95.3W | 64W   | 36.4W | 19.3W |
| 5.01 V     | 859W | 667W  | 570W  | 360W  | 222W | 95.8W | 64.1W | 36.6W | 19.6W |
| 4.80 V     | 951W | 716W  | 600W  | 375W  | 227W | 96.3W | 64.5W | 36.9W | 19.9W |

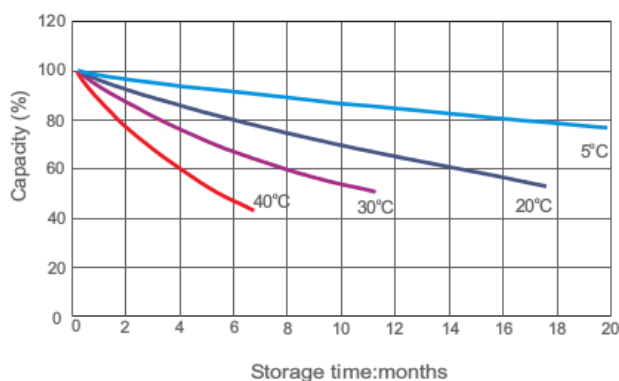
CHARGE CHARACTERISTICS



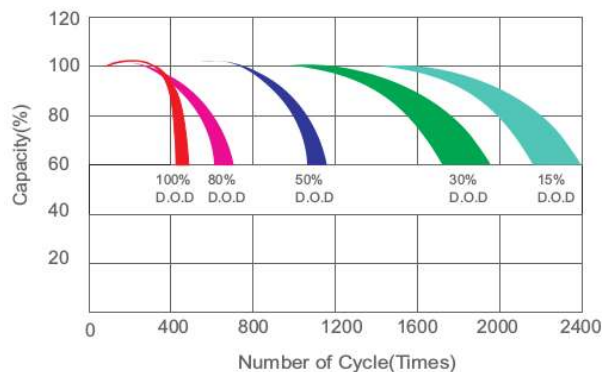
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC OF CYCLIC USE



## SPECIFICATIONS

|                                  |                                                              |
|----------------------------------|--------------------------------------------------------------|
| Nominal Voltage                  | 6 V                                                          |
| Capacity (25°C)                  | 180 Ah (C10), 189 Ah (C20)                                   |
| Energy                           | 1080 Wh                                                      |
| Cell number                      | 3                                                            |
| Charge Voltage (25°C)            | Cycle use: 7.2-7.4V (-3mV/C)<br>Float use: 6.8-6.9V (-2mV/C) |
| Max. Charge Current              | 45 A                                                         |
| Max. Discharge Current           | 1000 A                                                       |
| Internal Resistance              | 3.2 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 RDG6-180** 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:

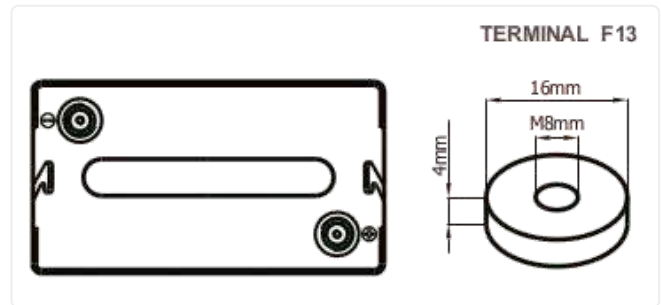
**Length:** 306 mm

**Width:** 168 mm

**Height:** 226 mm

**Total Height:** 226 mm

**Weight:** 27.5 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: 7.2-7.4V (-3mV/C)

Float use: 6.8-6.9V (-2mV/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

**RDG6-200** (6 V · 200 Ah) · [See all RDG series models](#)

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

## Deep cycling with full recovery from deep discharge.

The RDG6-200 is a 6 V, 200 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 306 × 168 × 226 mm and weighs 30 kg, with F13 terminals. It stores 1.2 kWh and delivers up to 1000 A. Deep cycling with full recovery from deep discharge. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and UPS and Data Centers.

Formerly **RKG6-200**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 6 V                |
| Capacity (25°C) | 200 Ah (C10)       |
| Energy          | 1200 Wh            |
| Weight          | 30 kg              |
| Terminal        | F13                |
| Dimensions      | 306 × 168 × 226 mm |

## MAIN ADVANTAGES

- ✓ **Recovery:** Superior performance after deep discharges
- ✓ **Stable:** Low electrolyte stratification
- ✓ **Longevity:** Excellent cycle life in harsh conditions
- ✓ **Gel Tech:** Thixotropic gel electrolyte

**12**  
YEARS

**LONG LIFE DESIGN**

\* EUROBAT CLASSIFICATION: 10-12 Years (High Performance).

**2**  
YEARS

**WARRANTY**

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

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS AND BASE STATIONS**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

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YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

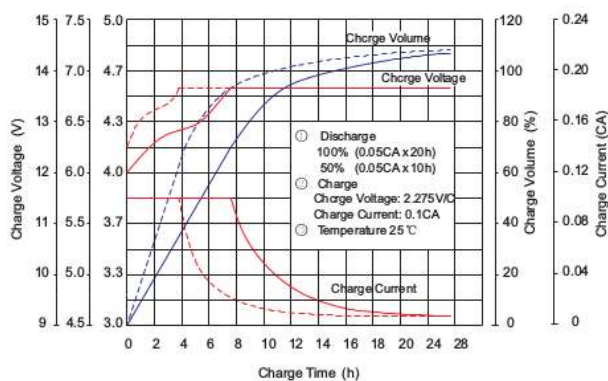
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|------|-------|-------|-------|-------|
| 5.55 V     | 299A | 271A  | 249A  | 177A  | 115A | 51.7A | 34.6A | 19.5A | 10.3A |
| 5.40 V     | 349A | 301A  | 273A  | 187A  | 121A | 53.4A | 35.5A | 20A   | 10.5A |
| 5.25 V     | 395A | 331A  | 293A  | 196A  | 125A | 54.5A | 36.4A | 20.4A | 10.7A |
| 5.10 V     | 454A | 356A  | 316A  | 203A  | 127A | 55.3A | 36.8A | 20.7A | 10.9A |
| 5.01 V     | 509A | 392A  | 334A  | 211A  | 130A | 56A   | 37.1A | 20.9A | 11.2A |
| 4.80 V     | 570A | 425A  | 355A  | 221A  | 134A | 56.7A | 37.6A | 21.2A | 11.4A |

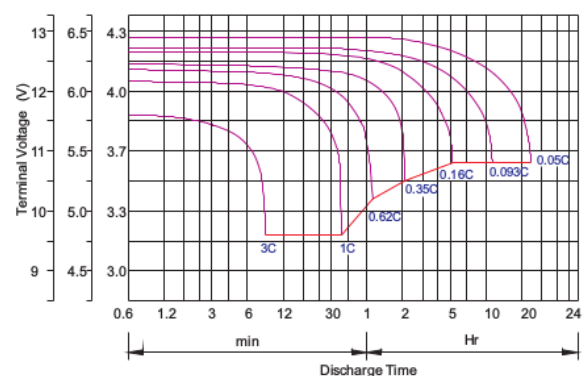
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| 5.55 V     | 563W  | 514W  | 514W  | 340W  | 224W | 91.3W | 61.7W | 35W   | 18.5W |
| 5.40 V     | 646W  | 564W  | 517W  | 357W  | 232W | 93.6W | 62.7W | 35.8W | 18.9W |
| 5.25 V     | 722W  | 614W  | 549W  | 370W  | 237W | 94.6W | 63.7W | 36.2W | 19.1W |
| 5.10 V     | 820W  | 653W  | 585W  | 380W  | 240W | 95.3W | 64W   | 36.4W | 19.3W |
| 5.01 V     | 907W  | 711W  | 614W  | 392W  | 244W | 95.8W | 64.1W | 36.6W | 19.6W |
| 4.80 V     | 1004W | 764W  | 647W  | 408W  | 249W | 96.3W | 64.5W | 36.9W | 19.9W |

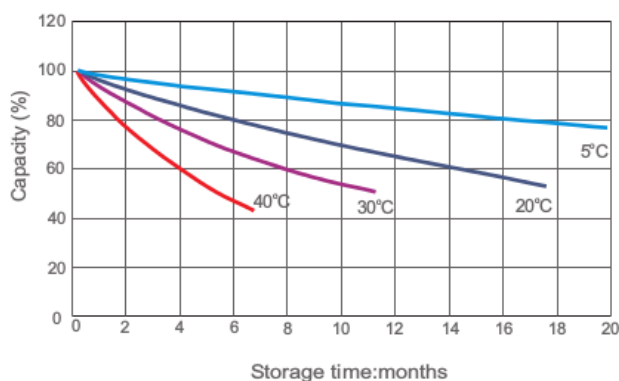
CHARGE CHARACTERISTICS



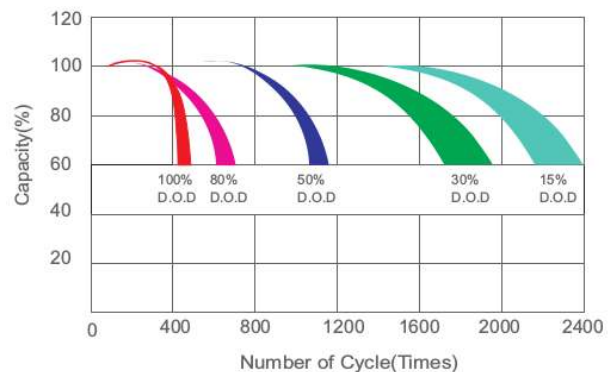
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC OF CYCLIC USE



## SPECIFICATIONS

|                                  |                                                              |
|----------------------------------|--------------------------------------------------------------|
| Nominal Voltage                  | 6 V                                                          |
| Capacity (25°C)                  | 200 Ah (C10), 210 Ah (C20)                                   |
| Energy                           | 1200 Wh                                                      |
| Cell number                      | 3                                                            |
| Charge Voltage (25°C)            | Cycle use: 7.2-7.4V (-3mV/C)<br>Float use: 6.8-6.9V (-2mV/C) |
| Max. Charge Current              | 50 A                                                         |
| Max. Discharge Current           | 1000 A                                                       |
| Internal Resistance              | 3.1 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 RDG6-200** 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:

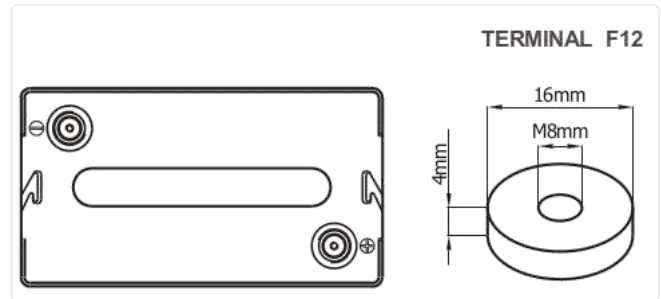
**Length:** 306 mm

**Width:** 168 mm

**Height:** 226 mm

**Total Height:** 226 mm

**Weight:** 30 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: 7.2-7.4V (-3mV/C)

Float use: 6.8-6.9V (-2mV/C)

**Maximum Current:** Do not exceed 50 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

**RDG6-180** (6 V · 180 Ah) · [See all RDG series models](#)

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

## Deep cycling with full recovery from deep discharge.

The RDG12-26 is a 12 V, 26 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 166 × 175 × 125 mm and weighs 8.3 kg, with F11 terminals. It stores 312 Wh and delivers up to 310 A. Deep cycling with full recovery from deep discharge. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and UPS and Data Centers.

Formerly **RKG12-26**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 26 Ah (C10)        |
| Energy          | 312 Wh             |
| Weight          | 8.3 kg             |
| Terminal        | F11                |
| Dimensions      | 166 × 175 × 125 mm |

## MAIN ADVANTAGES

- ✓ **Recovery:** Superior performance after deep discharges
- ✓ **Stable:** Low electrolyte stratification
- ✓ **Longevity:** Excellent cycle life in harsh conditions
- ✓ **Gel Tech:** Thixotropic gel electrolyte

**12**  
YEARS

**LONG LIFE DESIGN**

\* EUROBAT CLASSIFICATION: 10-12 Years (High Performance).

**2**  
YEARS

**WARRANTY**

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

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS AND BASE STATIONS**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

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YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

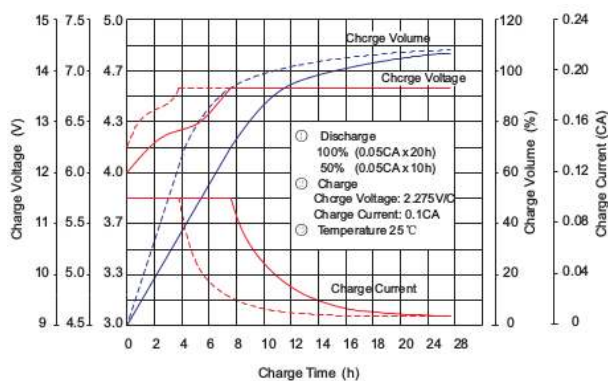
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11.10 V    | 64.9A | 50.8A | 43.1A | 26.5A | 15.8A | 6.84A | 4.4A  | 2.43A | 1.24A |
| 10.80 V    | 73.4A | 53.9A | 44.2A | 27A   | 16A   | 6.92A | 4.45A | 2.46A | 1.27A |
| 10.50 V    | 81.9A | 57.1A | 45.3A | 27.5A | 16.4A | 7.03A | 4.5A  | 2.49A | 1.3A  |
| 10.20 V    | 89.8A | 59.7A | 46.4A | 28.2A | 16.6A | 7.1A  | 4.56A | 2.51A | 1.33A |
| 10.02 V    | 96.8A | 62.4A | 47.6A | 28.7A | 16.9A | 7.16A | 4.62A | 2.54A | 1.35A |
| 9.60 V     | 104A  | 64.6A | 49.3A | 29.3A | 17.1A | 7.24A | 4.67A | 2.58A | 1.38A |

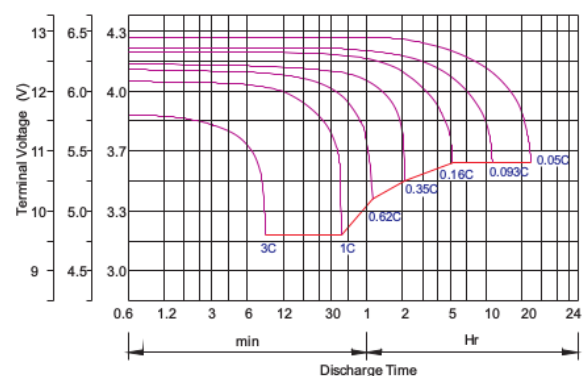
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11.10 V    | 122W | 96.6W | 82.3W | 51W   | 30.6W | 13.3W | 8.71W | 4.85W | 2.49W |
| 10.80 V    | 136W | 101W  | 83.5W | 51.5W | 30.8W | 13.4W | 8.73W | 4.88W | 2.54W |
| 10.50 V    | 150W | 106W  | 84.8W | 52W   | 31.1W | 13.5W | 8.76W | 4.9W  | 2.58W |
| 10.20 V    | 162W | 110W  | 86.1W | 52.7W | 31.4W | 13.6W | 8.81W | 4.92W | 2.62W |
| 10.02 V    | 173W | 113W  | 87.5W | 53.2W | 31.7W | 13.7W | 8.85W | 4.94W | 2.65W |
| 9.60 V     | 183W | 116W  | 89.9W | 54.2W | 31.9W | 13.8W | 8.9W  | 4.98W | 2.68W |

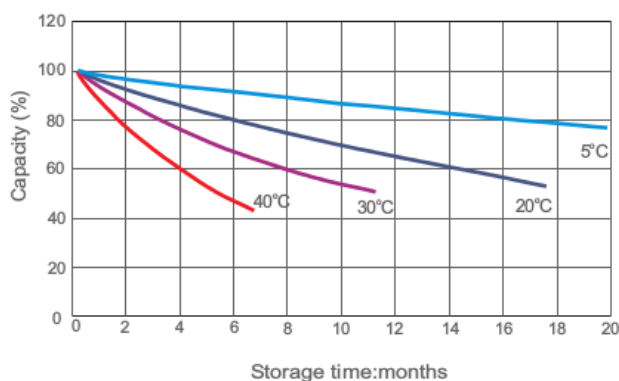
CHARGE CHARACTERISTICS



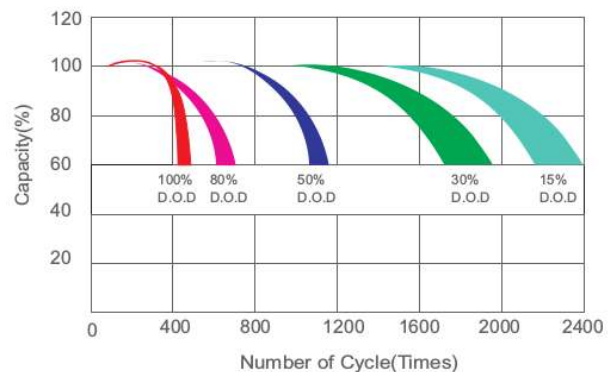
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC OF CYCLIC USE



## SPECIFICATIONS

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                                  |
| Capacity (25°C)                  | 26 Ah (C10)                                                                           |
| Energy                           | 312 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              | 25 A                                                                                  |
| Max. Discharge Current           | 310 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 RDG12-26** 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:** 166 mm

**Width:** 175 mm

**Height:** 125 mm

**Total Height:** 125 mm

**Weight:** 8.3 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 25 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

**RDG12-40** (12 V · 40 Ah) · [See all RDG series models](#)

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

## Deep cycling with full recovery from deep discharge.

The RDG12-40 is a 12 V, 40 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 197 × 165 × 170 mm and weighs 13 kg, with F14 terminals. It stores 480 Wh and delivers up to 400 A. Deep cycling with full recovery from deep discharge. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and UPS and Data Centers.

Formerly **RKG12-40**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 40 Ah (C10)        |
| Energy          | 480 Wh             |
| Weight          | 13 kg              |
| Terminal        | F14                |
| Dimensions      | 197 × 165 × 170 mm |

## MAIN ADVANTAGES

- ✓ **Recovery:** Superior performance after deep discharges
- ✓ **Stable:** Low electrolyte stratification
- ✓ **Longevity:** Excellent cycle life in harsh conditions
- ✓ **Gel Tech:** Thixotropic gel electrolyte

**12**  
YEARS

**LONG LIFE DESIGN**

\* EUROBAT CLASSIFICATION: 10-12 Years (High Performance).

**2**  
YEARS

**WARRANTY**

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

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY  
SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS  
AND BASE STATIONS**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

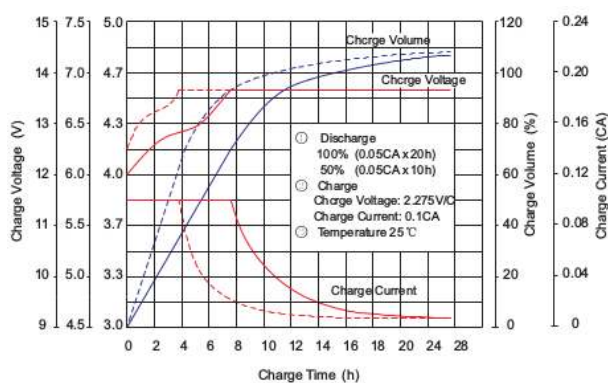
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11.10 V    | 62.9A | 56.4A | 51.4A | 36.1A | 23.3A | 10.3A | 6.93A | 3.9A  | 2.05A |
| 10.80 V    | 73.5A | 62.6A | 56.4A | 38.2A | 24.4A | 10.7A | 7.1A  | 4A    | 2.1A  |
| 10.50 V    | 83.1A | 68.9A | 60.4A | 40A   | 25.2A | 10.9A | 7.27A | 4.08A | 2.14A |
| 10.20 V    | 95.6A | 74.1A | 65.1A | 41.4A | 25.7A | 11.1A | 7.37A | 4.14A | 2.18A |
| 10.02 V    | 107A  | 81.6A | 68.9A | 43A   | 26.3A | 11.2A | 7.42A | 4.19A | 2.23A |
| 9.60 V     | 120A  | 88.5A | 73.1A | 45A   | 27A   | 11.3A | 7.53A | 4.24A | 2.28A |

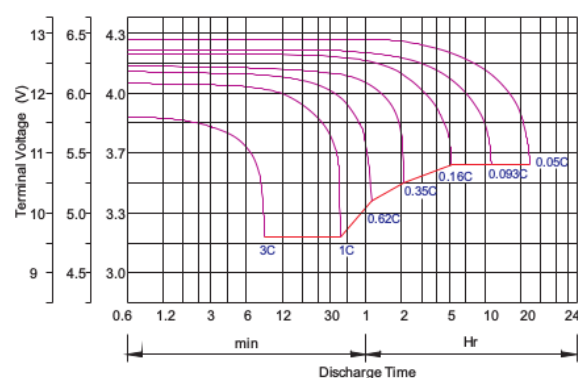
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11.10 V    | 118W | 107W  | 98.1W | 69.5W | 45.2W | 20.3W | 13.7W | 7.79W | 4.12W |
| 10.80 V    | 136W | 118W  | 107W  | 72.9W | 46.8W | 20.8W | 13.9W | 7.95W | 4.19W |
| 10.50 V    | 152W | 128W  | 113W  | 75.5W | 47.9W | 21W   | 14.2W | 8.04W | 4.24W |
| 10.20 V    | 173W | 136W  | 121W  | 77.6W | 48.6W | 21.2W | 14.2W | 8.09W | 4.3W  |
| 10.02 V    | 191W | 148W  | 127W  | 80W   | 49.4W | 21.3W | 14.3W | 8.14W | 4.36W |
| 9.60 V     | 211W | 159W  | 133W  | 83.2W | 50.4W | 21.4W | 14.3W | 8.19W | 4.43W |

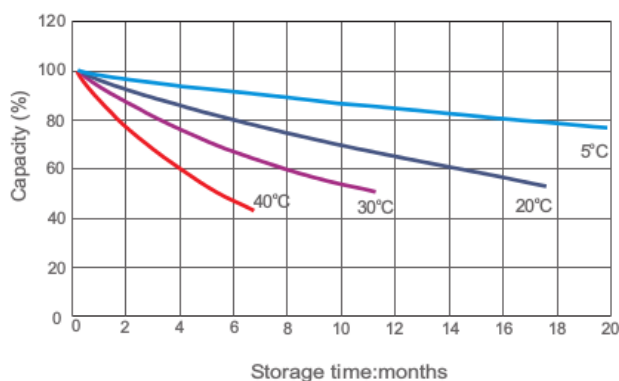
CHARGE CHARACTERISTICS



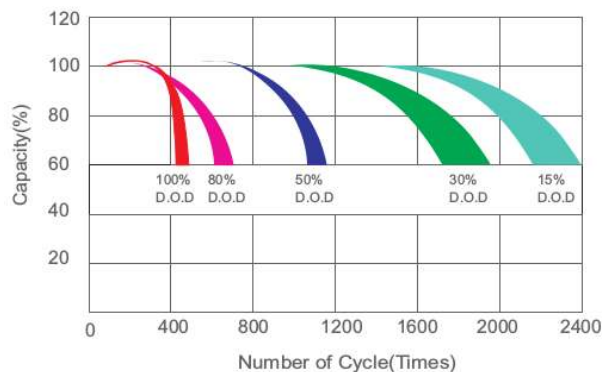
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC OF CYCLIC USE



## SPECIFICATIONS

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                                  |
| Capacity (25°C)                  | 40 Ah (C10), 42 Ah (C20)                                                              |
| Energy                           | 480 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              | 10 A                                                                                  |
| Max. Discharge Current           | 400 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 RDG12-40** 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:

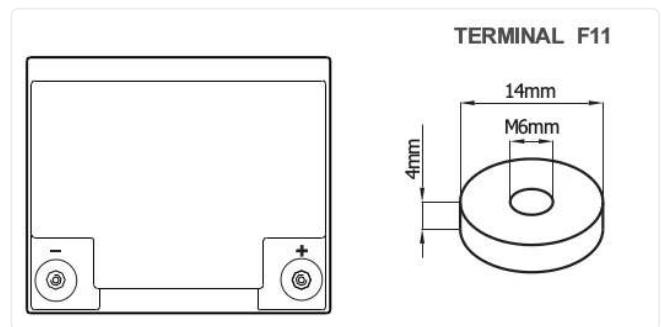
**Length:** 197 mm

**Width:** 165 mm

**Height:** 170 mm

**Total Height:** 170 mm

**Weight:** 13 kg



### 2. TERMINAL CONFIGURATION (F14)

**Terminals:** Ensure your system's connectors match the F14 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 10 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

**RDG12-26** (12 V · 26 Ah) · **RDG12-50** (12 V · 50 Ah) · [See all RDG series models](#)

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

## Deep cycling with full recovery from deep discharge.

The RDG12-50 is a 12 V, 50 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 229 × 138 × 208 mm and weighs 15.5 kg, with F11 terminals. It stores 600 Wh and delivers up to 500 A. Deep cycling with full recovery from deep discharge. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and UPS and Data Centers.

Formerly **RKG12-50**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 50 Ah (C10)        |
| Energy          | 600 Wh             |
| Weight          | 15.5 kg            |
| Terminal        | F11                |
| Dimensions      | 229 × 138 × 208 mm |

## MAIN ADVANTAGES

- ✓ **Recovery:** Superior performance after deep discharges
- ✓ **Stable:** Low electrolyte stratification
- ✓ **Longevity:** Excellent cycle life in harsh conditions
- ✓ **Gel Tech:** Thixotropic gel electrolyte

**12**  
YEARS

**LONG LIFE DESIGN**

\* EUROBAT CLASSIFICATION: 10-12 Years (High Performance).

**2**  
YEARS

**WARRANTY**

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

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS AND BASE STATIONS**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

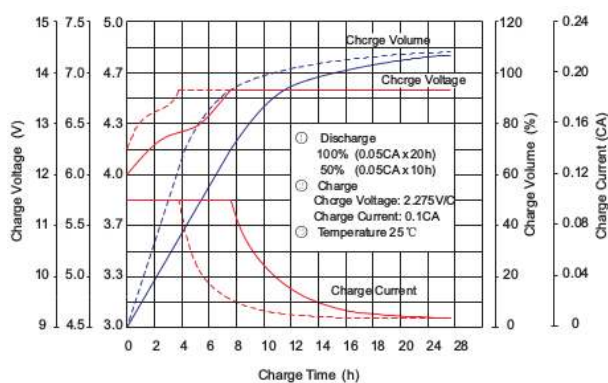
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11.10 V    | 86.5A | 77.5A | 70.6A | 49.6A | 32A   | 14.2A | 9.53A | 5.36A | 2.82A |
| 10.80 V    | 101A  | 86.1A | 77.5A | 52.6A | 33.5A | 14.7A | 9.76A | 5.5A  | 2.89A |
| 10.50 V    | 114A  | 94.7A | 83.1A | 55A   | 34.6A | 15A   | 10A   | 5.61A | 2.94A |
| 10.20 V    | 131A  | 102A  | 89.5A | 57A   | 35.4A | 15.2A | 10.1A | 5.69A | 3A    |
| 10.02 V    | 147A  | 112A  | 94.7A | 59.2A | 36.2A | 15.4A | 10.2A | 5.76A | 3.07A |
| 9.60 V     | 165A  | 122A  | 101A  | 61.9A | 37.2A | 15.6A | 10.4A | 5.83A | 3.14A |

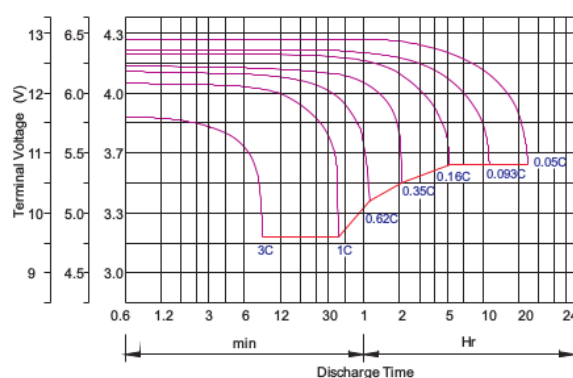
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11.10 V    | 163W | 147W  | 135W  | 95.5W | 62.2W | 27.9W | 18.8W | 10.7W | 5.67W |
| 10.80 V    | 187W | 162W  | 147W  | 100W  | 64.3W | 28.6W | 19.2W | 10.9W | 5.77W |
| 10.50 V    | 209W | 176W  | 156W  | 104W  | 65.9W | 28.9W | 19.4W | 11W   | 5.83W |
| 10.20 V    | 237W | 187W  | 166W  | 107W  | 66.8W | 29.1W | 19.5W | 11.1W | 5.91W |
| 10.02 V    | 263W | 204W  | 174W  | 110W  | 67.9W | 29.3W | 19.6W | 11.2W | 6W    |
| 9.60 V     | 291W | 219W  | 183W  | 114W  | 69.3W | 29.4W | 19.7W | 11.3W | 6.1W  |

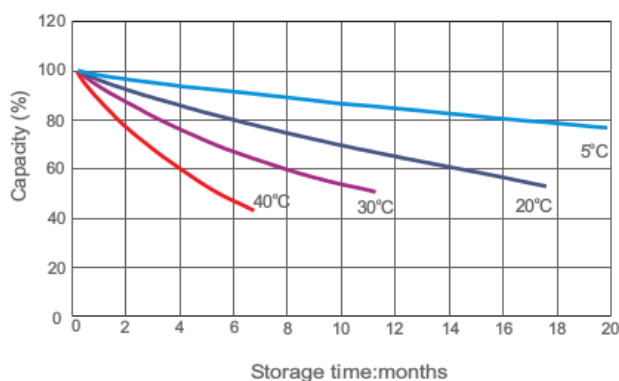
CHARGE CHARACTERISTICS



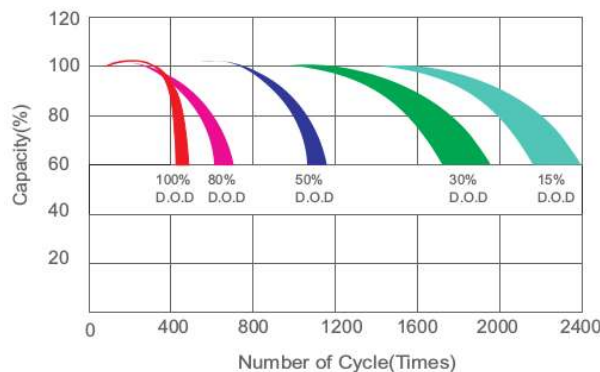
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC 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<br>Float use: 13.6-13.8V (-20mV/C) |
| Max. Charge Current              | 12.5 A                                                                                |
| Max. Discharge Current           | 500 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 RDG12-50** 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:** 229 mm

**Width:** 138 mm

**Height:** 208 mm

**Total Height:** 212 mm

**Weight:** 15.5 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 12.5 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

**RDG12-40** (12 V · 40 Ah) · **RDG12-55** (12 V · 55 Ah) · [See all RDG series models](#)

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

## Deep cycling with full recovery from deep discharge.

The RDG12-55 is a 12 V, 55 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 229 × 138 × 208 mm and weighs 17 kg, with F11 terminals. It stores 660 Wh and delivers up to 500 A. Deep cycling with full recovery from deep discharge. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and UPS and Data Centers.

Formerly **RKG12-55**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 55 Ah (C10)        |
| Energy          | 660 Wh             |
| Weight          | 17 kg              |
| Terminal        | F11                |
| Dimensions      | 229 × 138 × 208 mm |

## MAIN ADVANTAGES

- ✓ **Recovery:** Superior performance after deep discharges
- ✓ **Stable:** Low electrolyte stratification
- ✓ **Longevity:** Excellent cycle life in harsh conditions
- ✓ **Gel Tech:** Thixotropic gel electrolyte

**12**  
YEARS

**LONG LIFE DESIGN**

\* EUROBAT CLASSIFICATION: 10-12 Years (High Performance).

**2**  
YEARS

**WARRANTY**

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

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS AND BASE STATIONS**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

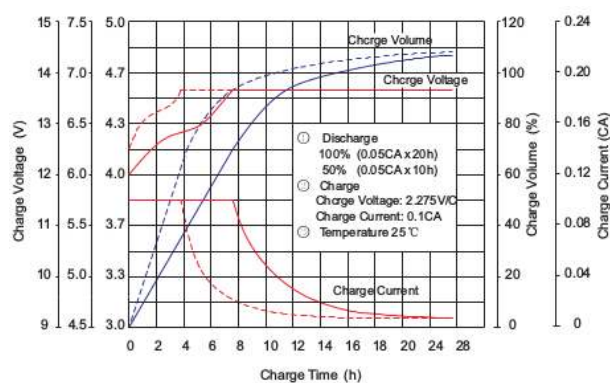
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11.10 V    | 86.5A | 77.5A | 70.6A | 49.6A | 32A   | 14.2A | 9.53A | 5.36A | 2.82A |
| 10.80 V    | 101A  | 86.1A | 77.5A | 52.6A | 33.5A | 14.7A | 9.76A | 5.5A  | 2.89A |
| 10.50 V    | 114A  | 94.7A | 83.1A | 55A   | 34.6A | 15A   | 10A   | 5.61A | 2.94A |
| 10.20 V    | 131A  | 102A  | 89.5A | 57A   | 35.4A | 15.2A | 10.1A | 5.69A | 3A    |
| 10.02 V    | 147A  | 112A  | 94.7A | 59.2A | 36.2A | 15.4A | 10.2A | 5.76A | 3.07A |
| 9.60 V     | 165A  | 122A  | 101A  | 61.9A | 37.2A | 15.6A | 10.4A | 5.83A | 3.14A |

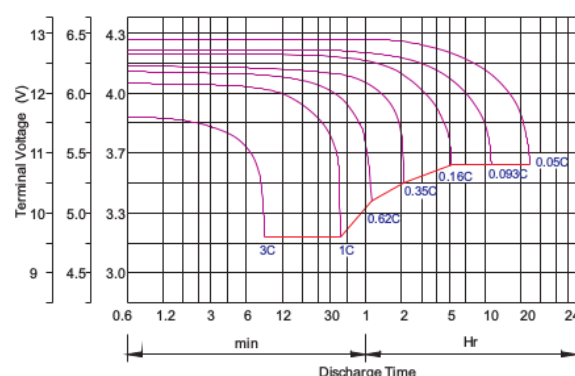
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11.10 V    | 163W | 147W  | 135W  | 95.5W | 62.2W | 27.9W | 18.8W | 10.7W | 5.67W |
| 10.80 V    | 187W | 162W  | 147W  | 100W  | 64.3W | 28.6W | 19.2W | 10.9W | 5.77W |
| 10.50 V    | 209W | 176W  | 156W  | 104W  | 65.9W | 28.9W | 19.4W | 11W   | 5.83W |
| 10.20 V    | 237W | 187W  | 166W  | 107W  | 66.8W | 29.1W | 19.5W | 11.1W | 5.91W |
| 10.02 V    | 263W | 204W  | 174W  | 110W  | 67.9W | 29.3W | 19.6W | 11.2W | 6W    |
| 9.60 V     | 291W | 219W  | 183W  | 114W  | 69.3W | 29.4W | 19.7W | 11.3W | 6.1W  |

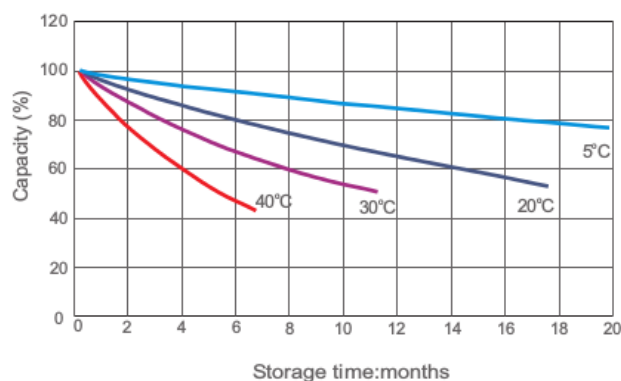
CHARGE CHARACTERISTICS



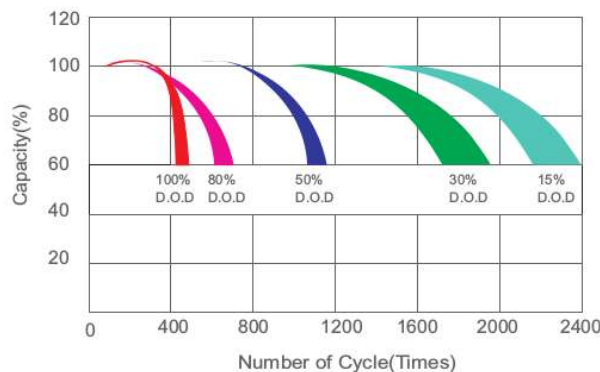
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC OF CYCLIC USE



## SPECIFICATIONS

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                                  |
| Capacity (25°C)                  | 55 Ah (C10)                                                                           |
| Energy                           | 660 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              | 13.75 A                                                                               |
| Max. Discharge Current           | 500 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 RDG12-55** 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:

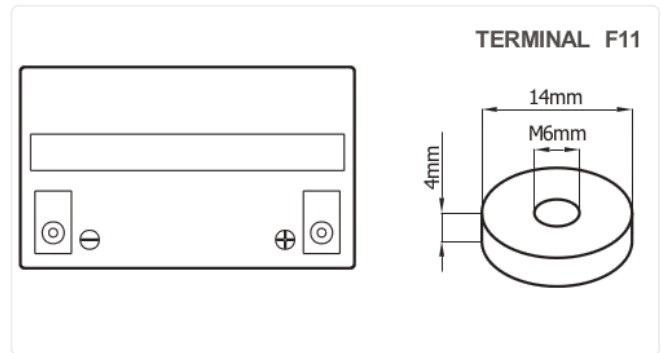
**Length:** 229 mm

**Width:** 138 mm

**Height:** 208 mm

**Total Height:** 212 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 13.75 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

**RDG12-50** (12 V · 50 Ah) · **RDG12-60** (12 V · 60 Ah) · [See all RDG series models](#)

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

## Deep cycling with full recovery from deep discharge.

The RDG12-60 is a 12 V, 60 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 260 × 168 × 211 mm and weighs 20 kg, with F11 terminals. It stores 720 Wh. Deep cycling with full recovery from deep discharge. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and UPS and Data Centers.

Formerly **RKG12-60**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 60 Ah (C10)        |
| Energy          | 720 Wh             |
| Weight          | 20 kg              |
| Terminal        | F11                |
| Dimensions      | 260 × 168 × 211 mm |

## MAIN ADVANTAGES

- ✓ **Recovery:** Superior performance after deep discharges
- ✓ **Stable:** Low electrolyte stratification
- ✓ **Longevity:** Excellent cycle life in harsh conditions
- ✓ **Gel Tech:** Thixotropic gel electrolyte

**12**  
YEARS

**LONG LIFE DESIGN**

\* EUROBAT CLASSIFICATION: 10-12 Years (High Performance).

**2**  
YEARS

**WARRANTY**

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

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS AND BASE STATIONS**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

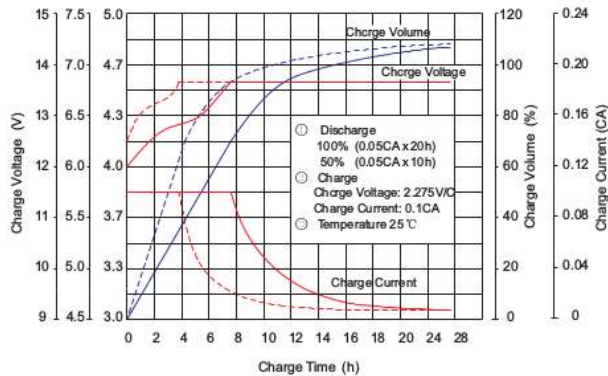
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10.80 V    | 106A  | 85.1A | 53.6A | 33.9A | 14.6A | 10.2A | 6A    | 3.15A |
| 10.50 V    | 112A  | 89.9A | 55.6A | 35A   | 15A   | 10.5A | 6.04A | 3.17A |
| 10.20 V    | 117A  | 93.1A | 57A   | 35.7A | 15.1A | 10.6A | 6.08A | 3.19A |
| 10.02 V    | 122A  | 96.6A | 58.8A | 36.6A | 15.2A | 10.6A | 6.1A  | 3.2A  |
| 9.60 V     | 126A  | 99A   | 60A   | 37.2A | 15.3A | 10.7A | 6.11A | 3.21A |

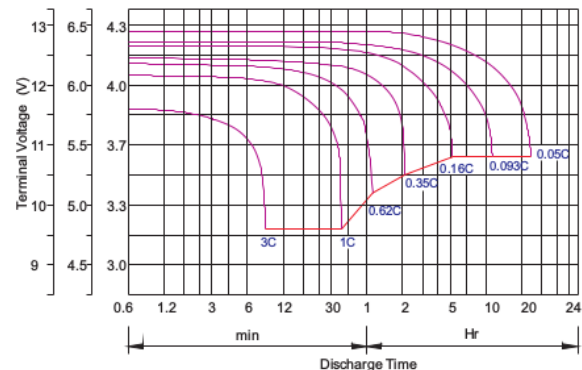
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR  | 10HR  | 20HR  |
|------------|-------|-------|-------|------|------|------|-------|-------|
| 10.80 V    | 1143W | 935W  | 601W  | 387W | 171W | 120W | 71.6W | 37.8W |
| 10.50 V    | 1211W | 987W  | 624W  | 399W | 176W | 124W | 72.1W | 38.1W |
| 10.20 V    | 1266W | 1022W | 640W  | 407W | 178W | 125W | 72.6W | 38.3W |
| 10.02 V    | 1320W | 1061W | 660W  | 418W | 179W | 126W | 72.8W | 38.4W |
| 9.60 V     | 1361W | 1087W | 673W  | 424W | 180W | 127W | 72.9W | 38.5W |

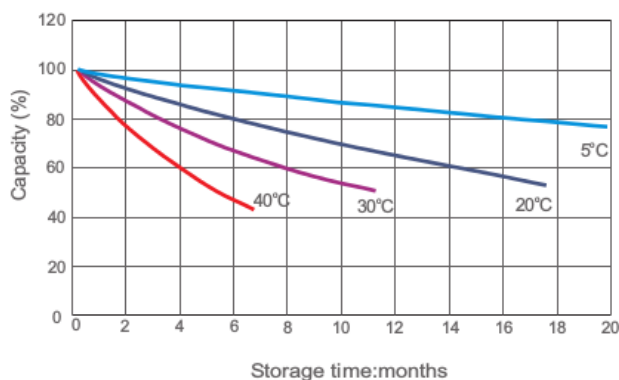
CHARGE CHARACTERISTICS



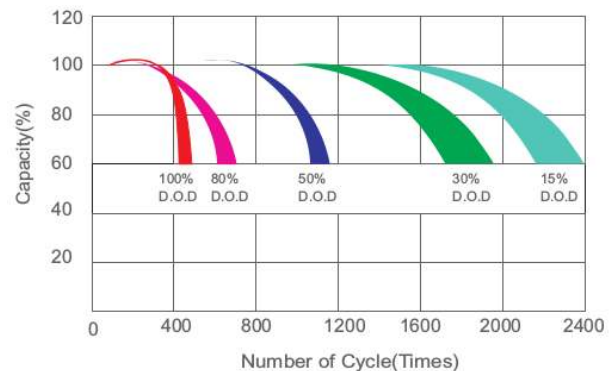
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC OF CYCLIC USE



## SPECIFICATIONS

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                                  |
| Capacity (25°C)                  | 60 Ah (C10)                                                                           |
| Energy                           | 720 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              | 18 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 RDG12-60** 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:

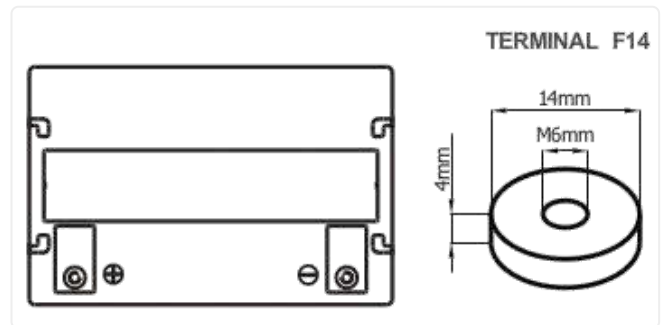
**Length:** 260 mm

**Width:** 168 mm

**Height:** 211 mm

**Total Height:** 216 mm

**Weight:** 20 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 18 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

**RDG12-55** (12 V · 55 Ah) · **RDG12-70** (12 V · 70 Ah) · [See all RDG series models](#)

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

## Deep cycling with full recovery from deep discharge.

The RDG12-70 is a 12 V, 70 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 260 × 166 × 211 mm and weighs 22 kg, with F11 terminals. It stores 840 Wh and delivers up to 675 A. Deep cycling with full recovery from deep discharge. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and UPS and Data Centers.

Formerly **RKG12-70**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 70 Ah (C10)        |
| Energy          | 840 Wh             |
| Weight          | 22 kg              |
| Terminal        | F11                |
| Dimensions      | 260 × 166 × 211 mm |

## MAIN ADVANTAGES

- ✓ **Recovery:** Superior performance after deep discharges
- ✓ **Stable:** Low electrolyte stratification
- ✓ **Longevity:** Excellent cycle life in harsh conditions
- ✓ **Gel Tech:** Thixotropic gel electrolyte

**12**  
YEARS

**LONG LIFE DESIGN**

\* EUROBAT CLASSIFICATION: 10-12 Years (High Performance).

**2**  
YEARS

**WARRANTY**

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

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS AND BASE STATIONS**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

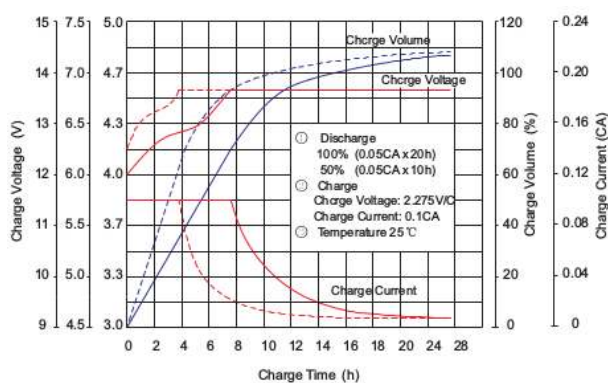
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11.10 V    | 110A | 99A   | 89.9A | 63.1A | 40.8A | 18.1A | 12.1A | 6.82A | 3.59A |
| 10.80 V    | 129A | 110A  | 98.6A | 66.9A | 42.6A | 18.7A | 12.4A | 7A    | 3.67A |
| 10.50 V    | 145A | 121A  | 106A  | 70A   | 44.1A | 19.1A | 12.7A | 7.14A | 3.75A |
| 10.20 V    | 167A | 130A  | 114A  | 72.5A | 45A   | 19.4A | 12.9A | 7.24A | 3.82A |
| 10.02 V    | 187A | 143A  | 121A  | 75.3A | 46.1A | 19.6A | 13A   | 7.33A | 3.91A |
| 9.60 V     | 210A | 155A  | 128A  | 78.8A | 47.3A | 19.8A | 13.2A | 7.42A | 4A    |

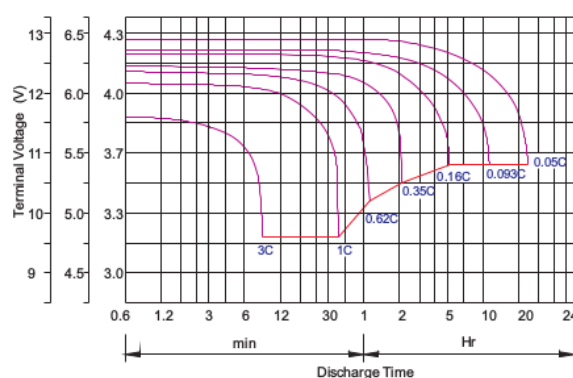
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11.10 V    | 207W | 187W  | 172W  | 122W  | 79.1W | 35.5W | 24W   | 13.6W | 7.21W |
| 10.80 V    | 238W | 206W  | 187W  | 127W  | 81.9W | 36.4W | 24.4W | 13.9W | 7.34W |
| 10.50 V    | 266W | 224W  | 198W  | 132W  | 83.9W | 36.8W | 24.8W | 14.1W | 7.42W |
| 10.20 V    | 302W | 238W  | 211W  | 136W  | 85W   | 37.1W | 24.9W | 14.2W | 7.52W |
| 10.02 V    | 334W | 259W  | 222W  | 140W  | 86.4W | 37.2W | 24.9W | 14.2W | 7.63W |
| 9.60 V     | 370W | 278W  | 233W  | 146W  | 88.2W | 37.4W | 25.1W | 14.3W | 7.76W |

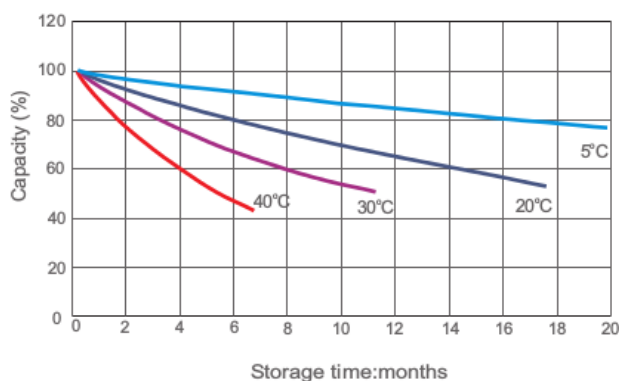
CHARGE CHARACTERISTICS



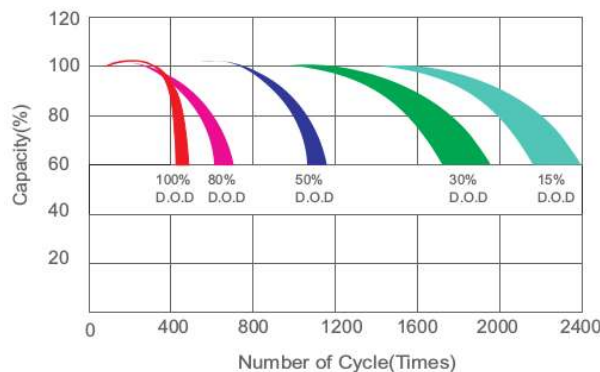
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC OF CYCLIC USE



## SPECIFICATIONS

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                                  |
| Capacity (25°C)                  | 70 Ah (C10)                                                                           |
| Energy                           | 840 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              | 17.5 A                                                                                |
| Max. Discharge Current           | 675 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 RDG12-70** 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:

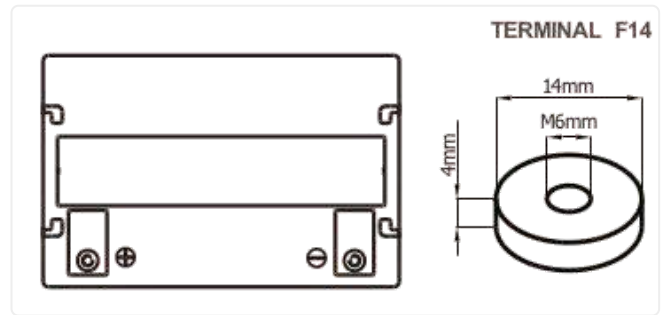
**Length:** 260 mm

**Width:** 166 mm

**Height:** 211 mm

**Total Height:** 216 mm

**Weight:** 22 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 17.5 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

**RDG12-60** (12 V · 60 Ah) · **RDG12-80** (12 V · 80 Ah) · [See all RDG series models](#)

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

## Deep cycling with full recovery from deep discharge.

The RDG12-80 is a 12 V, 80 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 350 × 167 × 179 mm and weighs 23 kg, with F11 terminals. It stores 960 Wh and delivers up to 720 A. Deep cycling with full recovery from deep discharge. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and UPS and Data Centers.

Formerly **RKG12-80**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 80 Ah (C10)        |
| Energy          | 960 Wh             |
| Weight          | 23 kg              |
| Terminal        | F11                |
| Dimensions      | 350 × 167 × 179 mm |

## MAIN ADVANTAGES

- ✓ **Recovery:** Superior performance after deep discharges
- ✓ **Stable:** Low electrolyte stratification
- ✓ **Longevity:** Excellent cycle life in harsh conditions
- ✓ **Gel Tech:** Thixotropic gel electrolyte

**12**  
YEARS

**LONG LIFE DESIGN**

\* EUROBAT CLASSIFICATION: 10-12 Years (High Performance).

**2**  
YEARS

**WARRANTY**

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

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS AND BASE STATIONS**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

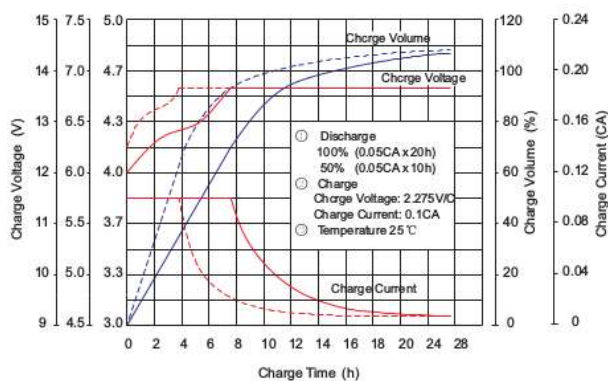
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11.10 V    | 126A | 113A  | 103A  | 72.2A | 46.6A | 20.7A | 13.9A | 7.79A | 4.1A  |
| 10.80 V    | 147A | 125A  | 113A  | 76.5A | 48.7A | 21.4A | 14.2A | 8A    | 4.2A  |
| 10.50 V    | 166A | 138A  | 121A  | 80A   | 50.4A | 21.8A | 14.5A | 8.16A | 4.28A |
| 10.20 V    | 191A | 148A  | 130A  | 82.9A | 51.4A | 22.1A | 14.7A | 8.27A | 4.36A |
| 10.02 V    | 214A | 163A  | 138A  | 86.1A | 52.7A | 22.4A | 14.8A | 8.38A | 4.46A |
| 9.60 V     | 240A | 177A  | 146A  | 90.1A | 54A   | 22.7A | 15.1A | 8.48A | 4.57A |

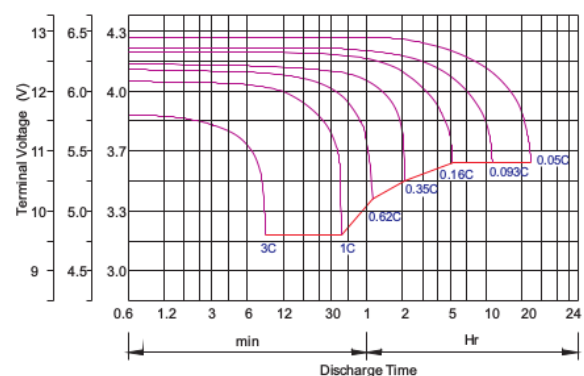
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11.10 V    | 237W | 214W  | 196W  | 139W  | 90.4W | 40.6W | 27.4W | 15.6W | 8.24W |
| 10.80 V    | 272W | 235W  | 213W  | 146W  | 93.6W | 41.6W | 27.9W | 15.9W | 8.39W |
| 10.50 V    | 304W | 256W  | 227W  | 151W  | 95.9W | 42W   | 28.3W | 16.1W | 8.49W |
| 10.20 V    | 345W | 272W  | 241W  | 155W  | 97.1W | 42.4W | 28.4W | 16.2W | 8.6W  |
| 10.02 V    | 382W | 296W  | 253W  | 160W  | 98.7W | 42.6W | 28.5W | 16.3W | 8.72W |
| 9.60 V     | 423W | 318W  | 267W  | 166W  | 101W  | 42.8W | 28.7W | 16.4W | 8.87W |

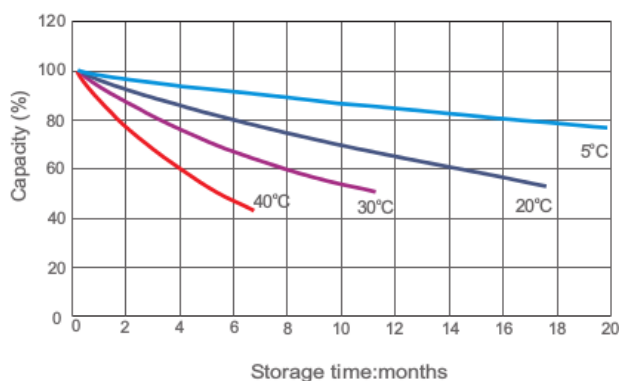
CHARGE CHARACTERISTICS



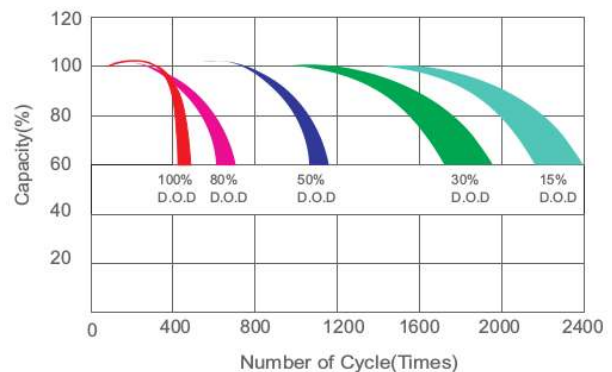
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC OF CYCLIC USE



## SPECIFICATIONS

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                                  |
| Capacity (25°C)                  | 80 Ah (C10), 84 Ah (C20)                                                              |
| Energy                           | 960 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              | 24 A                                                                                  |
| Max. Discharge Current           | 720 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 RDG12-80** 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:** 350 mm

**Width:** 167 mm

**Height:** 179 mm

**Total Height:** 179 mm

**Weight:** 23 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 24 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

**RDG12-70** (12 V · 70 Ah) · **RDG12-90** (12 V · 90 Ah) · [See all RDG series models](#)

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

## Deep cycling with full recovery from deep discharge.

The RDG12-90 is a 12 V, 90 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 306 × 169 × 208 mm and weighs 26.5 kg, with F14 terminals. It stores 1.08 kWh and delivers up to 720 A. Deep cycling with full recovery from deep discharge. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and UPS and Data Centers.

Formerly **RKG12-90**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 90 Ah (C10)        |
| Energy          | 1080 Wh            |
| Weight          | 26.5 kg            |
| Terminal        | F14                |
| Dimensions      | 306 × 169 × 208 mm |

## MAIN ADVANTAGES

- ✓ **Recovery:** Superior performance after deep discharges
- ✓ **Stable:** Low electrolyte stratification
- ✓ **Longevity:** Excellent cycle life in harsh conditions
- ✓ **Gel Tech:** Thixotropic gel electrolyte

**12**  
YEARS

**LONG LIFE DESIGN**

\* EUROBAT CLASSIFICATION: 10-12 Years (High Performance).

**2**  
YEARS

**WARRANTY**

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

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS AND BASE STATIONS**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

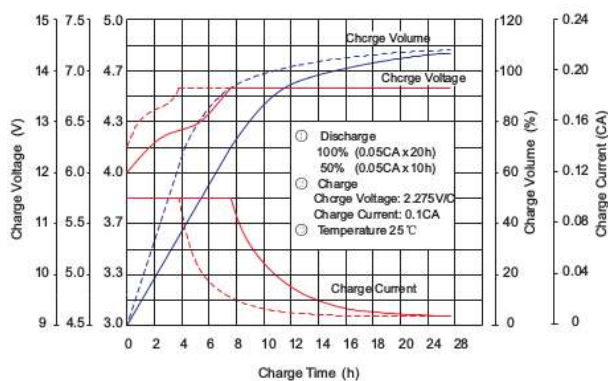
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11.10 V    | 142A | 127A  | 116A  | 81.2A | 52.4A | 23.3A | 15.6A | 8.77A | 4.61A |
| 10.80 V    | 165A | 141A  | 127A  | 86A   | 54.8A | 24A   | 16A   | 9A    | 4.72A |
| 10.50 V    | 187A | 155A  | 136A  | 90A   | 56.7A | 24.5A | 16.4A | 9.18A | 4.82A |
| 10.20 V    | 215A | 167A  | 146A  | 93.2A | 57.9A | 24.9A | 16.6A | 9.31A | 4.91A |
| 10.02 V    | 241A | 184A  | 155A  | 96.8A | 59.2A | 25.2A | 16.7A | 9.42A | 5.02A |
| 9.60 V     | 270A | 199A  | 165A  | 101A  | 60.8A | 25.5A | 16.9A | 9.55A | 5.14A |

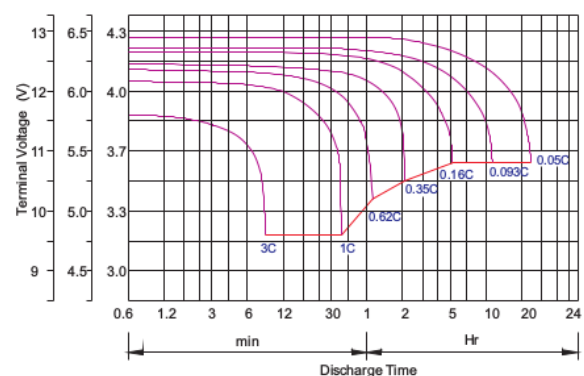
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|------|-------|-------|-------|-------|
| 11.10 V    | 267W | 241W  | 221W  | 156W  | 102W | 45.7W | 30.8W | 17.5W | 9.27W |
| 10.80 V    | 306W | 264W  | 240W  | 164W  | 105W | 46.8W | 31.3W | 17.9W | 9.43W |
| 10.50 V    | 342W | 288W  | 255W  | 170W  | 108W | 47.3W | 31.8W | 18.1W | 9.55W |
| 10.20 V    | 388W | 306W  | 272W  | 175W  | 109W | 47.7W | 32W   | 18.2W | 9.67W |
| 10.02 V    | 430W | 333W  | 285W  | 180W  | 111W | 47.9W | 32.1W | 18.3W | 9.82W |
| 9.60 V     | 475W | 358W  | 300W  | 187W  | 113W | 48.1W | 32.2W | 18.4W | 10W   |

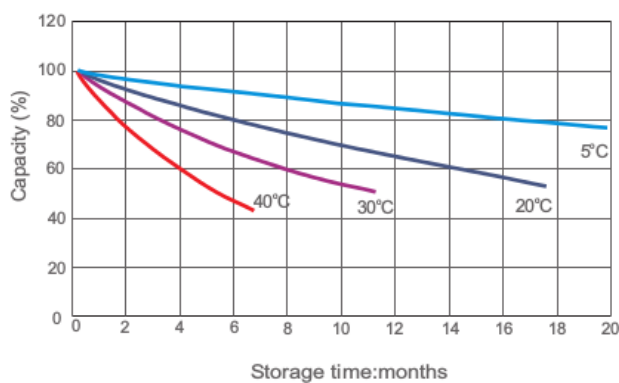
CHARGE CHARACTERISTICS



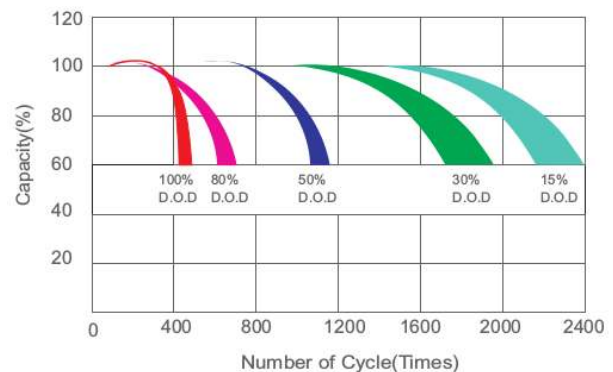
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC OF CYCLIC USE



## SPECIFICATIONS

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                                  |
| Capacity (25°C)                  | 90 Ah (C10), 94.4 Ah (C20)                                                            |
| Energy                           | 1080 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              | 22.5 A                                                                                |
| Max. Discharge Current           | 720 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 RDG12-90** 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:

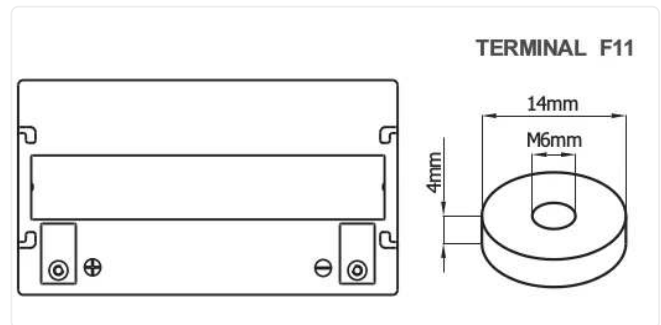
**Length:** 306 mm

**Width:** 169 mm

**Height:** 208 mm

**Total Height:** 212 mm

**Weight:** 26.5 kg



### 2. TERMINAL CONFIGURATION (F14)

**Terminals:** Ensure your system's connectors match the F14 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 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

**RDG12-80** (12 V · 80 Ah) · **RDG12-100** (12 V · 100 Ah) · [See all RDG series models](#)

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

## Deep cycling with full recovery from deep discharge.

The RDG12-100 is a 12 V, 100 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 328 × 171 × 214 mm and weighs 30 kg, with F14 terminals. It stores 1.2 kWh and delivers up to 800 A. Deep cycling with full recovery from deep discharge. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and UPS and Data Centers.

Formerly **RKG12-100**.

### MAIN ADVANTAGES

- ✓ **Recovery:** Superior performance after deep discharges
- ✓ **Stable:** Low electrolyte stratification
- ✓ **Longevity:** Excellent cycle life in harsh conditions
- ✓ **Gel Tech:** Thixotropic gel electrolyte



|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 100 Ah (C10)       |
| Energy          | 1200 Wh            |
| Weight          | 30 kg              |
| Terminal        | F14                |
| Dimensions      | 328 × 171 × 214 mm |

**12**  
YEARS

### LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: 10-12 Years (High Performance).

**2**  
YEARS

### WARRANTY

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

### MAIN APPLICATIONS



SOLAR/WIND ENERGY  
SYSTEMS



ELECTRICAL SUBSTATIONS



TELECOMMUNICATIONS  
AND BASE STATIONS



UPS AND DATA CENTERS

### QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

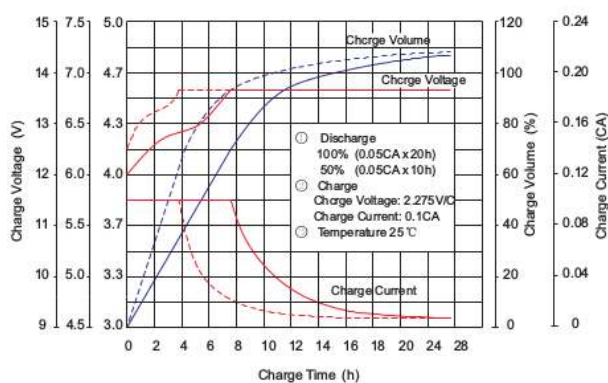
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11.10 V    | 157A | 141A  | 128A  | 90.2A | 58.3A | 25.8A | 17.3A | 9.74A | 5.13A |
| 10.80 V    | 184A | 157A  | 141A  | 95.6A | 60.9A | 26.7A | 17.7A | 10A   | 5.25A |
| 10.50 V    | 208A | 172A  | 151A  | 100A  | 63A   | 27.2A | 18.2A | 10.2A | 5.35A |
| 10.20 V    | 239A | 185A  | 163A  | 104A  | 64.3A | 27.7A | 18.4A | 10.3A | 5.45A |
| 10.02 V    | 268A | 204A  | 172A  | 108A  | 65.8A | 28A   | 18.6A | 10.5A | 5.58A |
| 9.60 V     | 300A | 221A  | 183A  | 113A  | 67.6A | 28.3A | 18.8A | 10.6A | 5.71A |

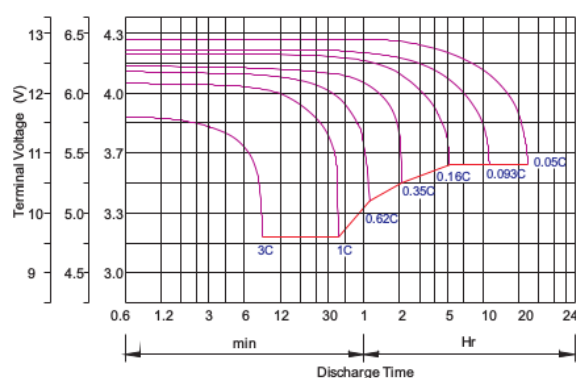
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|------|-------|-------|-------|-------|
| 11.10 V    | 296W | 268W  | 245W  | 174W  | 113W | 50.7W | 34.3W | 19.5W | 10.3W |
| 10.80 V    | 340W | 294W  | 267W  | 182W  | 117W | 52W   | 34.8W | 19.9W | 10.5W |
| 10.50 V    | 380W | 320W  | 283W  | 189W  | 120W | 52.6W | 35.4W | 20.1W | 10.6W |
| 10.20 V    | 431W | 340W  | 302W  | 194W  | 121W | 52.9W | 35.5W | 20.2W | 10.7W |
| 10.02 V    | 477W | 370W  | 316W  | 200W  | 123W | 53.2W | 35.6W | 20.3W | 10.9W |
| 9.60 V     | 528W | 398W  | 333W  | 208W  | 126W | 53.5W | 35.8W | 20.5W | 11.1W |

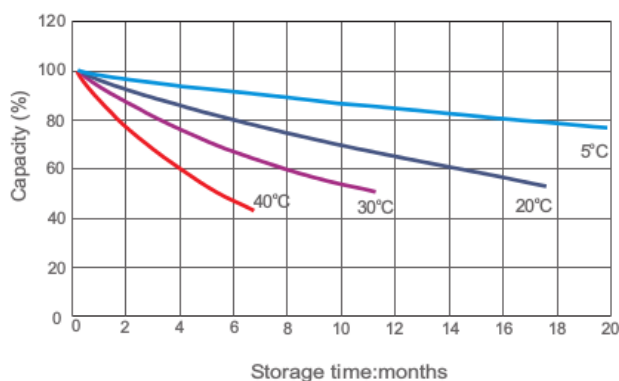
CHARGE CHARACTERISTICS



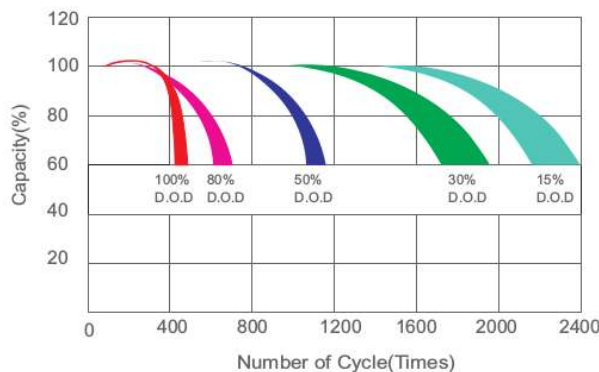
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC 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<br>Float use: 13.6-13.8V (-20mV/C) |
| Max. Charge Current              | 25 A                                                                                  |
| Max. Discharge Current           | 800 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 RDG12-100** 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:

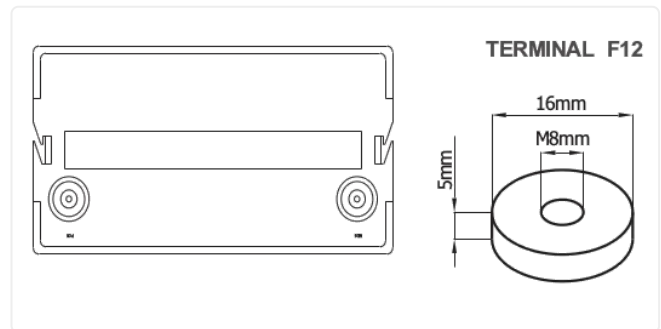
**Length:** 328 mm

**Width:** 171 mm

**Height:** 214 mm

**Total Height:** 220 mm

**Weight:** 30 kg



### 2. TERMINAL CONFIGURATION (F14)

**Terminals:** Ensure your system's connectors match the F14 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 25 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

**RDG12-90** (12 V · 90 Ah) · **RDG12-120** (12 V · 120 Ah) · [See all RDG series models](#)

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

## Deep cycling with full recovery from deep discharge.

The RDG12-120 is a 12 V, 120 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 410 × 176 × 227 mm and weighs 34 kg, with F12 terminals. It stores 1.44 kWh and delivers up to 960 A. Deep cycling with full recovery from deep discharge. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and UPS and Data Centers.

Formerly **RKG12-120**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 120 Ah (C10)       |
| Energy          | 1440 Wh            |
| Weight          | 34 kg              |
| Terminal        | F12                |
| Dimensions      | 410 × 176 × 227 mm |

## MAIN ADVANTAGES

- ✓ **Recovery:** Superior performance after deep discharges
- ✓ **Stable:** Low electrolyte stratification
- ✓ **Longevity:** Excellent cycle life in harsh conditions
- ✓ **Gel Tech:** Thixotropic gel electrolyte

**12**  
YEARS

**LONG LIFE DESIGN**

\* EUROBAT CLASSIFICATION: 10-12 Years (High Performance).

**2**  
YEARS

**WARRANTY**

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

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS AND BASE STATIONS**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

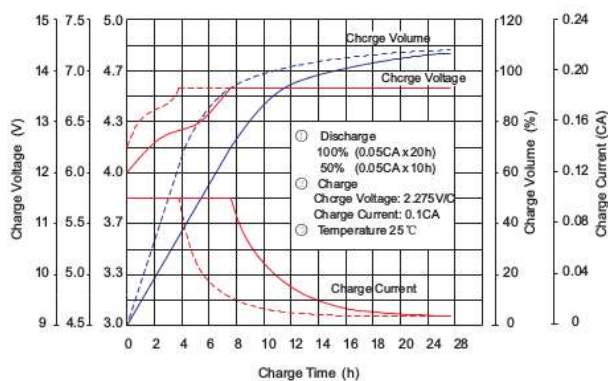
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11.10 V    | 189A | 169A  | 154A  | 108A  | 69.9A | 31A   | 20.8A | 11.7A | 6.15A |
| 10.80 V    | 220A | 188A  | 169A  | 115A  | 73.1A | 32A   | 21.3A | 12A   | 6.3A  |
| 10.50 V    | 249A | 207A  | 181A  | 120A  | 75.6A | 32.7A | 21.8A | 12.2A | 6.42A |
| 10.20 V    | 287A | 222A  | 195A  | 124A  | 77.1A | 33.2A | 22.1A | 12.4A | 6.54A |
| 10.02 V    | 321A | 245A  | 207A  | 129A  | 79A   | 33.6A | 22.3A | 12.6A | 6.7A  |
| 9.60 V     | 360A | 266A  | 219A  | 135A  | 81.1A | 34A   | 22.6A | 12.7A | 6.85A |

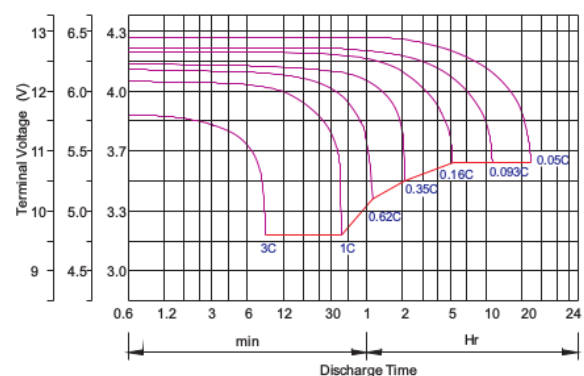
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|------|-------|-------|-------|-------|
| 11.10 V    | 355W | 321W  | 294W  | 208W  | 136W | 60.9W | 41.1W | 23.4W | 12.4W |
| 10.80 V    | 408W | 353W  | 320W  | 219W  | 140W | 62.4W | 41.8W | 23.8W | 12.6W |
| 10.50 V    | 456W | 384W  | 340W  | 227W  | 144W | 63.1W | 42.5W | 24.1W | 12.7W |
| 10.20 V    | 518W | 408W  | 362W  | 233W  | 146W | 63.5W | 42.7W | 24.3W | 12.9W |
| 10.02 V    | 573W | 445W  | 380W  | 240W  | 148W | 63.8W | 42.8W | 24.4W | 13.1W |
| 9.60 V     | 634W | 477W  | 400W  | 250W  | 151W | 64.2W | 43W   | 24.6W | 13.3W |

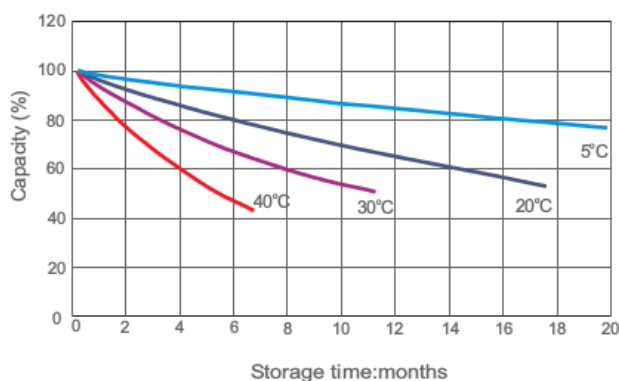
CHARGE CHARACTERISTICS



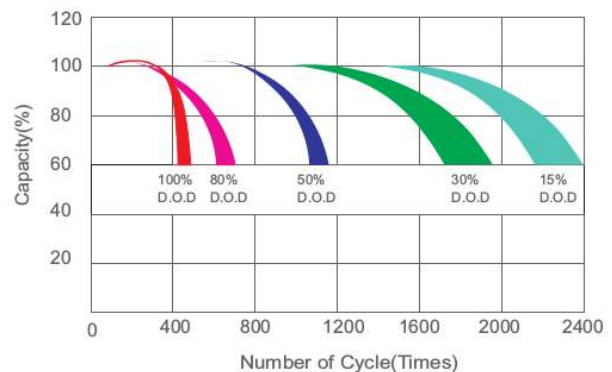
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC OF CYCLIC USE



## SPECIFICATIONS

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                                  |
| Capacity (25°C)                  | 120 Ah (C10)                                                                          |
| Energy                           | 1440 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              | 30 A                                                                                  |
| Max. Discharge Current           | 960 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 RDG12-120** 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:

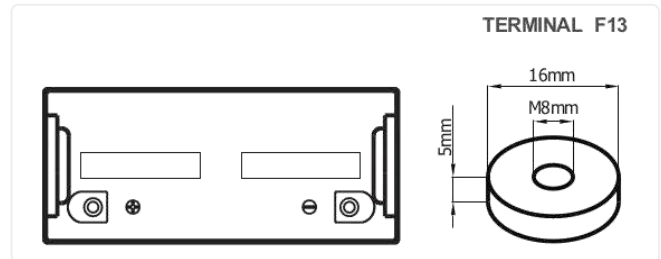
**Length:** 410 mm

**Width:** 176 mm

**Height:** 227 mm

**Total Height:** 227 mm

**Weight:** 34 kg



### 2. TERMINAL CONFIGURATION (F12)

**Terminals:** Ensure your system's connectors match the F12 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 30 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

**RDG12-100** (12 V · 100 Ah) · **RDG12-135** (12 V · 135 Ah) · [See all RDG series models](#)

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

## Deep cycling with full recovery from deep discharge.

The RDG12-135 is a 12 V, 135 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 342 × 172 × 273 mm and weighs 42 kg, with F12 terminals. It stores 1.62 kWh and delivers up to 1000 A. Deep cycling with full recovery from deep discharge. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and UPS and Data Centers.

Formerly **RKG12-135**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 135 Ah (C10)       |
| Energy          | 1620 Wh            |
| Weight          | 42 kg              |
| Terminal        | F12                |
| Dimensions      | 342 × 172 × 273 mm |

## MAIN ADVANTAGES

- ✓ **Recovery:** Superior performance after deep discharges
- ✓ **Stable:** Low electrolyte stratification
- ✓ **Longevity:** Excellent cycle life in harsh conditions
- ✓ **Gel Tech:** Thixotropic gel electrolyte

**12**  
YEARS

**LONG LIFE DESIGN**

\* EUROBAT CLASSIFICATION: 10-12 Years (High Performance).

**2**  
YEARS

**WARRANTY**

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

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY  
SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS  
AND BASE STATIONS**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

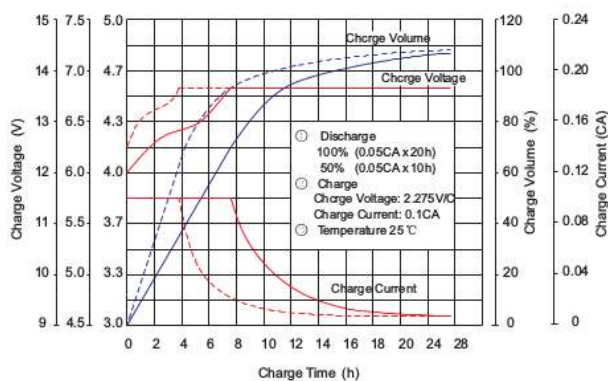
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11.10 V    | 212A | 190A  | 173A  | 122A  | 78.7A | 34.9A | 23.4A | 13.1A | 6.92A |
| 10.80 V    | 248A | 211A  | 190A  | 129A  | 82.2A | 36.1A | 23.9A | 13.5A | 7.08A |
| 10.50 V    | 280A | 232A  | 204A  | 135A  | 85A   | 36.8A | 24.5A | 13.8A | 7.22A |
| 10.20 V    | 323A | 250A  | 220A  | 140A  | 86.8A | 37.4A | 24.9A | 14A   | 7.36A |
| 10.02 V    | 361A | 275A  | 232A  | 145A  | 88.9A | 37.8A | 25.1A | 14.1A | 7.53A |
| 9.60 V     | 405A | 299A  | 247A  | 152A  | 91.2A | 38.3A | 25.4A | 14.3A | 7.71A |

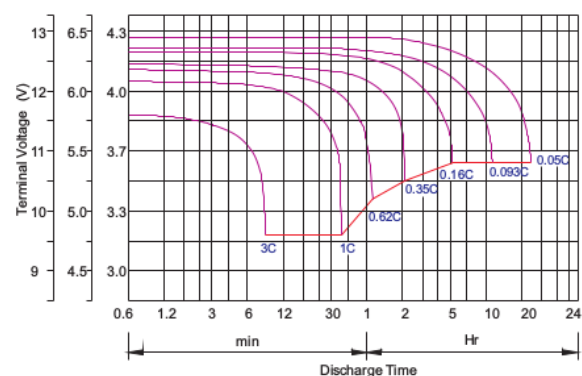
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|------|-------|-------|-------|-------|
| 11.10 V    | 400W | 362W  | 331W  | 234W  | 153W | 69.5W | 46.3W | 26.3W | 13.9W |
| 10.80 V    | 459W | 397W  | 360W  | 246W  | 158W | 70.2W | 47W   | 26.8W | 14.2W |
| 10.50 V    | 513W | 432W  | 382W  | 255W  | 162W | 71W   | 47.8W | 27.1W | 14.3W |
| 10.20 V    | 582W | 459W  | 407W  | 262W  | 164W | 71.5W | 48W   | 27.3W | 14.5W |
| 10.02 V    | 645W | 500W  | 427W  | 270W  | 167W | 71.8W | 48.1W | 27.5W | 14.7W |
| 9.60 V     | 713W | 537W  | 450W  | 281W  | 170W | 72.2W | 48.4W | 27.6W | 15W   |

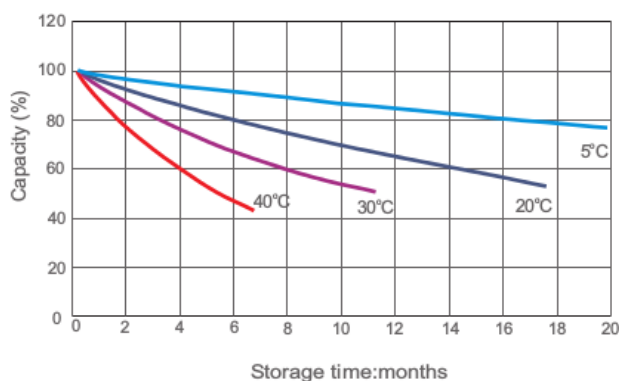
CHARGE CHARACTERISTICS



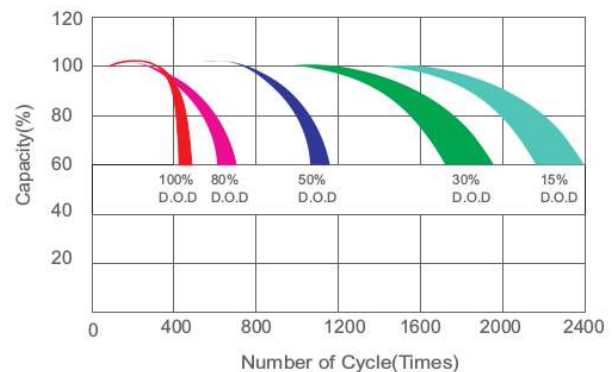
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC OF CYCLIC USE



## SPECIFICATIONS

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                                  |
| Capacity (25°C)                  | 135 Ah (C10)                                                                          |
| Energy                           | 1620 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              | 33.5 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 RDG12-135** 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:

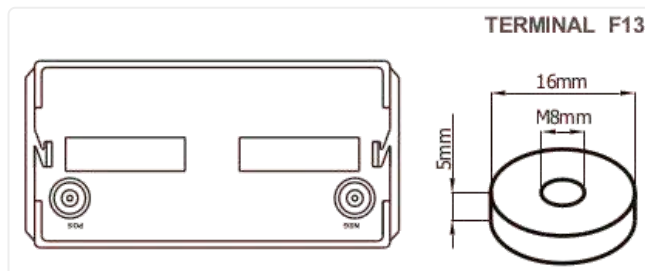
**Length:** 342 mm

**Width:** 172 mm

**Height:** 273 mm

**Total Height:** 277 mm

**Weight:** 42 kg



### 2. TERMINAL CONFIGURATION (F12)

**Terminals:** Ensure your system's connectors match the F12 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 33.5 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

**RDG12-120** (12 V · 120 Ah) · **RDG12-150** (12 V · 150 Ah) · [See all RDG series models](#)

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

## Deep cycling with full recovery from deep discharge.

The RDG12-150 is a 12 V, 150 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 485 × 172 × 240 mm and weighs 46 kg, with F13 terminals. It stores 1.8 kWh and delivers up to 1000 A. Deep cycling with full recovery from deep discharge. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and UPS and Data Centers.

Formerly **RKG12-150**.



|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 150 Ah (C10)       |
| Energy          | 1800 Wh            |
| Weight          | 46 kg              |
| Terminal        | F13                |
| Dimensions      | 485 × 172 × 240 mm |

## MAIN ADVANTAGES

- ✓ **Recovery:** Superior performance after deep discharges
- ✓ **Stable:** Low electrolyte stratification
- ✓ **Longevity:** Excellent cycle life in harsh conditions
- ✓ **Gel Tech:** Thixotropic gel electrolyte

**12**  
YEARS

## LONG LIFE DESIGN

\* EUROBAT CLASSIFICATION: 10-12 Years (High Performance).

**2**  
YEARS

## WARRANTY

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

## MAIN APPLICATIONS



SOLAR/WIND ENERGY  
SYSTEMS



ELECTRICAL SUBSTATIONS



TELECOMMUNICATIONS  
AND BASE STATIONS



UPS AND DATA CENTERS

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

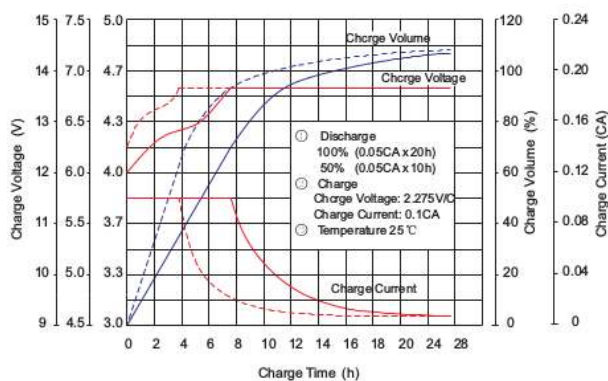
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR   | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11.10 V    | 236A | 211A  | 193A  | 135A  | 87.4A | 38.8A | 26A   | 14.6A | 7.69A |
| 10.80 V    | 276A | 235A  | 211A  | 143A  | 91.4A | 40.1A | 26.6A | 15A   | 7.87A |
| 10.50 V    | 312A | 258A  | 227A  | 150A  | 94.5A | 40.9A | 27.3A | 15.3A | 8.03A |
| 10.20 V    | 358A | 278A  | 244A  | 155A  | 96.4A | 41.5A | 26.7A | 15.5A | 8.18A |
| 10.02 V    | 402A | 306A  | 258A  | 161A  | 98.7A | 42A   | 27.8A | 15.7A | 8.37A |
| 9.60 V     | 450A | 332A  | 274A  | 169A  | 101A  | 42.5A | 28.2A | 15.9A | 8.57A |

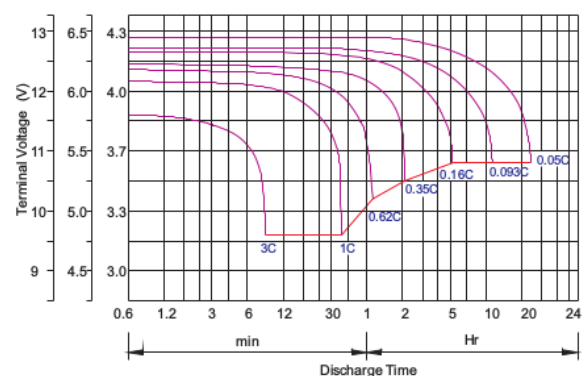
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|------|-------|-------|-------|-------|
| 11.10 V    | 444W | 402W  | 368W  | 260W  | 170W | 76.1W | 51.4W | 29.2W | 15.5W |
| 10.80 V    | 510W | 441W  | 400W  | 273W  | 175W | 78W   | 52.2W | 29.8W | 15.7W |
| 10.50 V    | 570W | 479W  | 425W  | 283W  | 180W | 78.8W | 53.1W | 30.2W | 15.9W |
| 10.20 V    | 647W | 510W  | 453W  | 291W  | 182W | 79.4W | 53.3W | 30.4W | 16.1W |
| 10.02 V    | 716W | 556W  | 475W  | 300W  | 185W | 79.8W | 53.5W | 30.5W | 16.4W |
| 9.60 V     | 792W | 597W  | 500W  | 312W  | 189W | 80.2W | 53.7W | 30.7W | 16.6W |

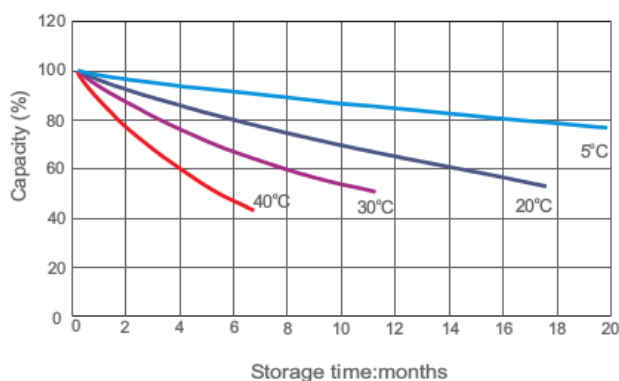
CHARGE CHARACTERISTICS



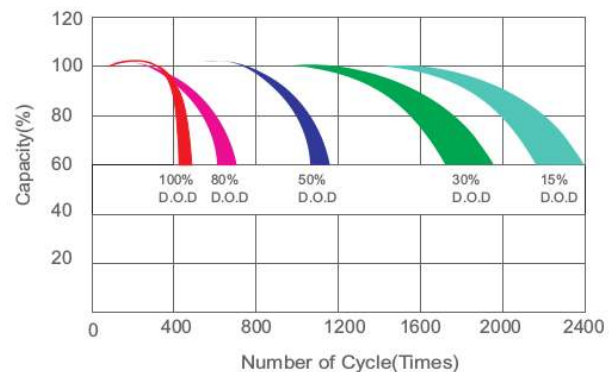
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC OF CYCLIC USE



## SPECIFICATIONS

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                                  |
| Capacity (25°C)                  | 150 Ah (C10), 157.4 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 RDG12-150** 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:

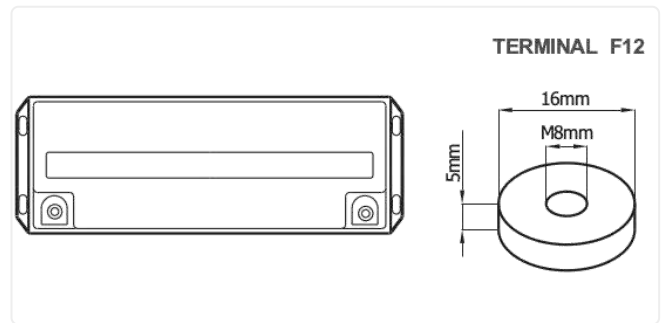
**Length:** 485 mm

**Width:** 172 mm

**Height:** 240 mm

**Total Height:** 240 mm

**Weight:** 46 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 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

**RDG12-135** (12 V · 135 Ah) · **RDG12-180** (12 V · 180 Ah) · [See all RDG series models](#)

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

## Deep cycling with full recovery from deep discharge.

The RDG12-180 is a 12 V, 180 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 530 × 207 × 218 mm and weighs 53 kg, with F12 terminals. It stores 2.16 kWh and delivers up to 800 A. Deep cycling with full recovery from deep discharge. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and UPS and Data Centers.

Formerly **RKG12-180**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 180 Ah (C10)       |
| Energy          | 2160 Wh            |
| Weight          | 53 kg              |
| Terminal        | F12                |
| Dimensions      | 530 × 207 × 218 mm |

## MAIN ADVANTAGES

- ✓ **Recovery:** Superior performance after deep discharges
- ✓ **Stable:** Low electrolyte stratification
- ✓ **Longevity:** Excellent cycle life in harsh conditions
- ✓ **Gel Tech:** Thixotropic gel electrolyte

**12**  
YEARS

**LONG LIFE DESIGN**

\* EUROBAT CLASSIFICATION: 10-12 Years (High Performance).

**2**  
YEARS

**WARRANTY**

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

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY  
SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS  
AND BASE STATIONS**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

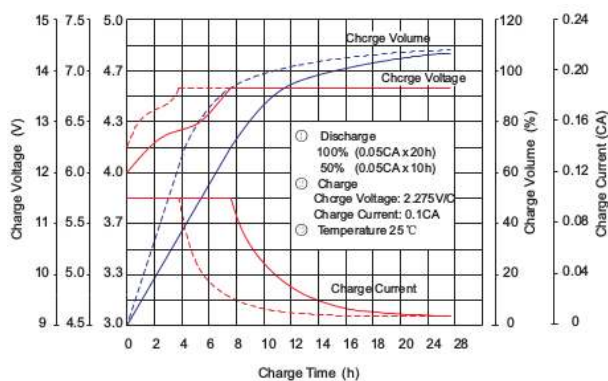
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|------|-------|-------|-------|-------|
| 11.10 V    | 283A | 254A  | 231A  | 162A  | 105A | 46.5A | 31.2A | 17.5A | 9.23A |
| 10.80 V    | 331A | 282A  | 254A  | 172A  | 110A | 48.1A | 31.9A | 18A   | 9.45A |
| 10.50 V    | 374A | 310A  | 272A  | 180A  | 113A | 49A   | 32.7A | 18.4A | 9.63A |
| 10.20 V    | 430A | 334A  | 293A  | 186A  | 116A | 49.8A | 33.1A | 18.6A | 9.82A |
| 10.02 V    | 482A | 367A  | 310A  | 194A  | 118A | 50.4A | 33.4A | 18.8A | 10A   |
| 9.60 V     | 540A | 398A  | 329A  | 203A  | 122A | 51A   | 33.9A | 19.1A | 10.3A |

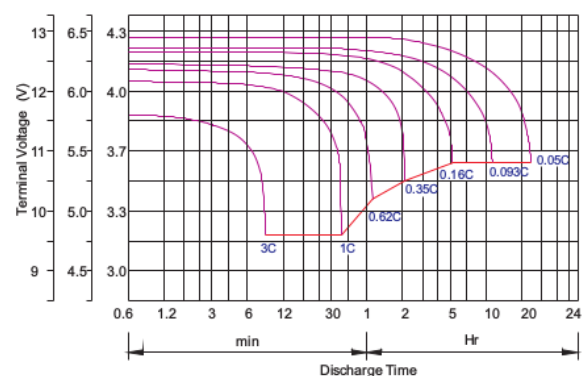
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|------|-------|-------|-------|-------|
| 11.10 V    | 533W | 482W  | 442W  | 313W  | 203W | 91.3W | 61.7W | 35W   | 18.5W |
| 10.80 V    | 612W | 529W  | 480W  | 328W  | 211W | 93.6W | 62.7W | 35.8W | 18.9W |
| 10.50 V    | 684W | 575W  | 510W  | 340W  | 216W | 94.6W | 63.7W | 36.2W | 19.1W |
| 10.20 V    | 776W | 612W  | 543W  | 349W  | 219W | 95.3W | 64W   | 36.4W | 19.3W |
| 10.02 V    | 859W | 667W  | 570W  | 360W  | 222W | 95.8W | 64.1W | 36.6W | 19.6W |
| 9.60 V     | 951W | 716W  | 600W  | 375W  | 227W | 96.3W | 64.5W | 36.9W | 19.9W |

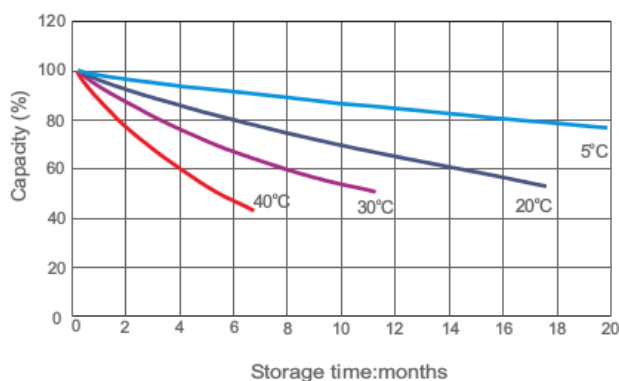
CHARGE CHARACTERISTICS



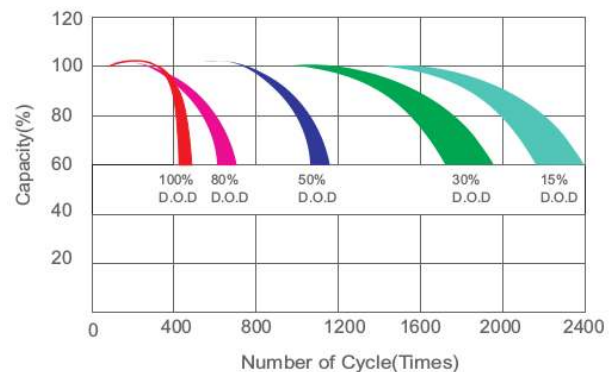
DISCHARGE CHARACTERISTIC 25oC



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<br>Float use: 13.6-13.8V (-20mV/C) |
| Max. Charge Current              | 25 A                                                                                  |
| Max. Discharge Current           | 800 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 RDG12-180** 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:

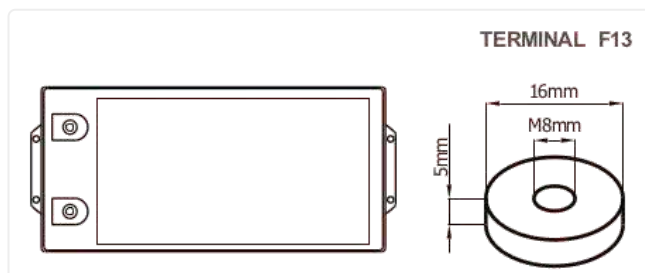
**Length:** 530 mm

**Width:** 207 mm

**Height:** 218 mm

**Total Height:** 222 mm

**Weight:** 53 kg



### 2. TERMINAL CONFIGURATION (F12)

**Terminals:** Ensure your system's connectors match the F12 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 25 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

**RDG12-150** (12 V · 150 Ah) · **RDG12-200** (12 V · 200 Ah) · [See all RDG series models](#)

The same battery in other series: **RFG12-180** (RFG Series – Front Terminal Deep Gel)

**Specialized Technical Support**

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

## Deep cycling with full recovery from deep discharge.

The RDG12-200 is a 12 V, 200 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 522 × 238 × 218 mm and weighs 60 kg, with F13 terminals. It stores 2.4 kWh and delivers up to 1000 A. Deep cycling with full recovery from deep discharge. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and UPS and Data Centers.

Formerly **RKG12-200**.



|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 200 Ah (C10)       |
| Energy          | 2400 Wh            |
| Weight          | 60 kg              |
| Terminal        | F13                |
| Dimensions      | 522 × 238 × 218 mm |

## MAIN ADVANTAGES

- ✓ **Recovery:** Superior performance after deep discharges
- ✓ **Stable:** Low electrolyte stratification
- ✓ **Longevity:** Excellent cycle life in harsh conditions
- ✓ **Gel Tech:** Thixotropic gel electrolyte

**12**  
YEARS

**LONG LIFE DESIGN**

\* EUROBAT CLASSIFICATION: 10-12 Years (High Performance).

**2**  
YEARS

**WARRANTY**

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

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS AND BASE STATIONS**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

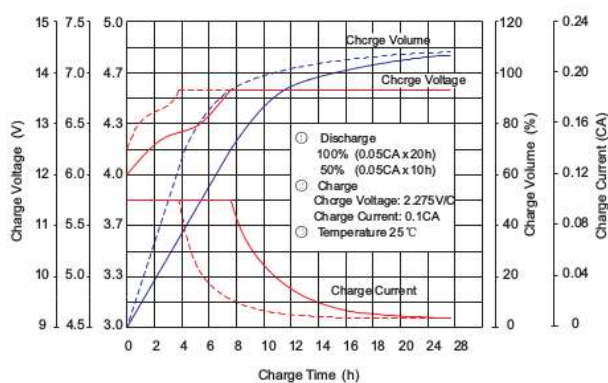
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|------|-------|-------|-------|-------|
| 11.10 V    | 299A | 271A  | 249A  | 177A  | 115A | 51.7A | 34.6A | 19.5A | 10.3A |
| 10.80 V    | 349A | 301A  | 273A  | 187A  | 121A | 53.4A | 35.5A | 20A   | 10.5A |
| 10.50 V    | 395A | 331A  | 293A  | 196A  | 125A | 54.5A | 36.4A | 20.4A | 10.7A |
| 10.20 V    | 454A | 356A  | 316A  | 203A  | 127A | 55.3A | 36.8A | 20.7A | 10.9A |
| 10.02 V    | 509A | 392A  | 334A  | 211A  | 130A | 56A   | 37.1A | 20.9A | 11.2A |
| 9.60 V     | 570A | 425A  | 355A  | 221A  | 134A | 57.6A | 37.6A | 21.2A | 11.4A |

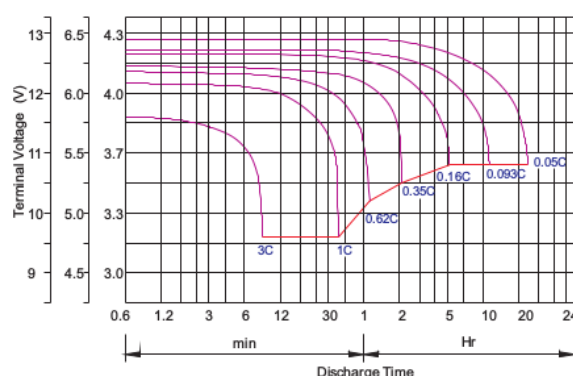
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| 11.10 V    | 563W  | 514W  | 476W  | 340W  | 224W | 91.3W | 61.7W | 35W   | 18.5W |
| 10.80 V    | 646W  | 564W  | 517W  | 357W  | 232W | 93.6W | 62.7W | 35.8W | 18.9W |
| 10.50 V    | 722W  | 614W  | 549W  | 370W  | 237W | 94.6W | 63.7W | 36.2W | 19.1W |
| 10.20 V    | 820W  | 653W  | 585W  | 380W  | 240W | 95.3W | 64W   | 36.4W | 19.3W |
| 10.02 V    | 907W  | 711W  | 614W  | 392W  | 244W | 95.8W | 64.1W | 36.6W | 19.6W |
| 9.60 V     | 1004W | 764W  | 647W  | 408W  | 249W | 96.3W | 64.5W | 36.9W | 19.9W |

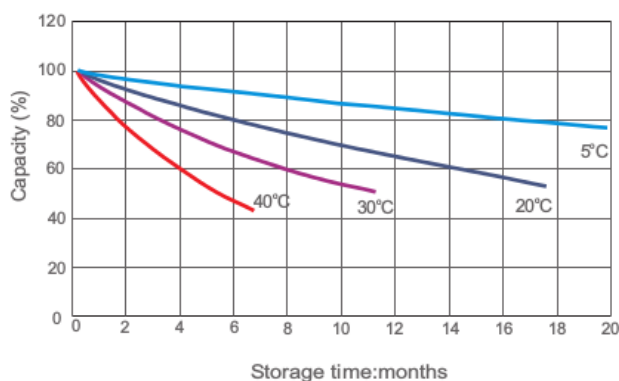
CHARGE CHARACTERISTICS



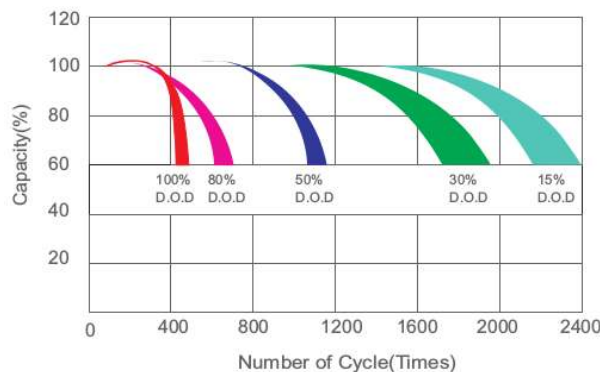
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC OF CYCLIC USE



## SPECIFICATIONS

|                                  |                                                                    |
|----------------------------------|--------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                               |
| Capacity (25°C)                  | 200 Ah (C10), 210 Ah (C20)                                         |
| Energy                           | 2400 Wh                                                            |
| Cell number                      | 6                                                                  |
| Charge Voltage (25°C)            | Cycle use: 14.4-14.8V (-30mV/C)<br>Float use: 13.6-13.8V (-20mV/C) |
| Max. Charge Current              | 50 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 RDG12-200** 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:

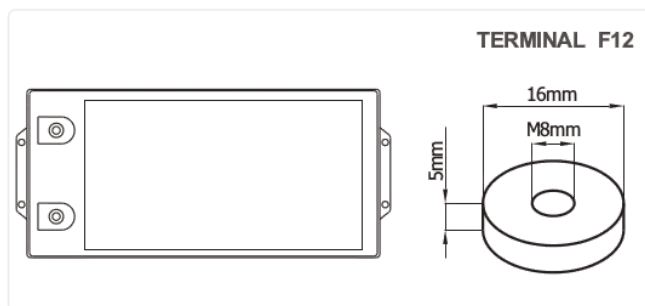
**Length:** 522 mm

**Width:** 238 mm

**Height:** 218 mm

**Total Height:** 222 mm

**Weight:** 60 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: 14.4-14.8V (-30mV/C)

Float use: 13.6-13.8V (-20mV/C)

**Maximum Current:** Do not exceed 50 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

**RDG12-180** (12 V · 180 Ah) · **RDG12-225** (12 V · 225 Ah) · [See all RDG series models](#)

The same battery in other series: **RFG12-200** (RFG Series – Front Terminal Deep Gel)

**Specialized Technical Support**

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

## Deep cycling with full recovery from deep discharge.

The RDG12-225 is a 12 V, 225 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 522 × 238 × 218 mm and weighs 64 kg, with F13 terminals. It stores 2.7 kWh and delivers up to 1000 A. Deep cycling with full recovery from deep discharge. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and UPS and Data Centers.

Formerly **RKG12-225**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 225 Ah (C10)       |
| Energy          | 2700 Wh            |
| Weight          | 64 kg              |
| Terminal        | F13                |
| Dimensions      | 522 × 238 × 218 mm |

## MAIN ADVANTAGES

- ✓ **Recovery:** Superior performance after deep discharges
- ✓ **Stable:** Low electrolyte stratification
- ✓ **Longevity:** Excellent cycle life in harsh conditions
- ✓ **Gel Tech:** Thixotropic gel electrolyte

**12**  
YEARS

**LONG LIFE DESIGN**

\* EUROBAT CLASSIFICATION: 10-12 Years (High Performance).

**2**  
YEARS

**WARRANTY**

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

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY  
SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS  
AND BASE STATIONS**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

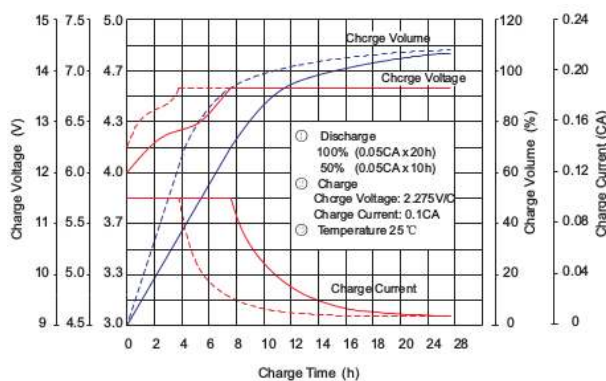
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|------|-------|-------|-------|-------|
| 11.10 V    | 336A | 304A  | 280A  | 199A  | 115A | 58.1A | 39A   | 21.9A | 11.5A |
| 10.80 V    | 393A | 338A  | 308A  | 211A  | 121A | 60.1A | 39.9A | 22.5A | 11.8A |
| 10.50 V    | 444A | 372A  | 330A  | 221A  | 125A | 61.3A | 40.9A | 23A   | 12A   |
| 10.20 V    | 511A | 400A  | 355A  | 228A  | 127A | 62.3A | 41.4A | 23.3A | 12.3A |
| 10.02 V    | 572A | 441A  | 376A  | 237A  | 130A | 63A   | 41.8A | 23.6A | 12.6A |
| 9.60 V     | 642A | 478A  | 399A  | 248A  | 134A | 63.8A | 42.3A | 23.9A | 12.8A |

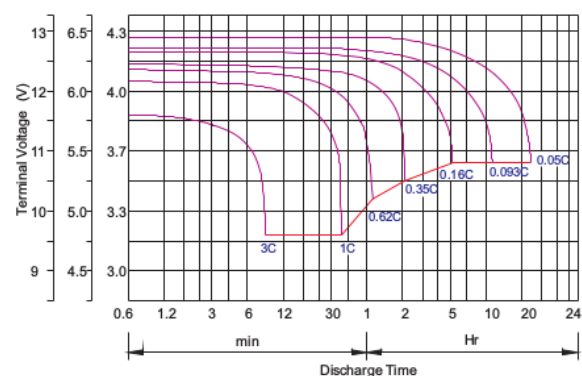
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR   | 10HR  | 20HR  |
|------------|-------|-------|-------|-------|------|------|-------|-------|-------|
| 11.10 V    | 633W  | 579W  | 536W  | 383W  | 252W | 114W | 77.1W | 43.8W | 23.2W |
| 10.80 V    | 727W  | 635W  | 582W  | 402W  | 261W | 117W | 78.4W | 44.7W | 23.6W |
| 10.50 V    | 812W  | 690W  | 618W  | 416W  | 267W | 118W | 79.6W | 45.2W | 23.9W |
| 10.20 V    | 922W  | 735W  | 659W  | 428W  | 270W | 119W | 80W   | 45.5W | 24.2W |
| 10.02 V    | 1020W | 800W  | 691W  | 441W  | 275W | 120W | 80.2W | 45.8W | 24.5W |
| 9.60 V     | 1129W | 859W  | 728W  | 459W  | 281W | 120W | 80.6W | 46.1W | 24.9W |

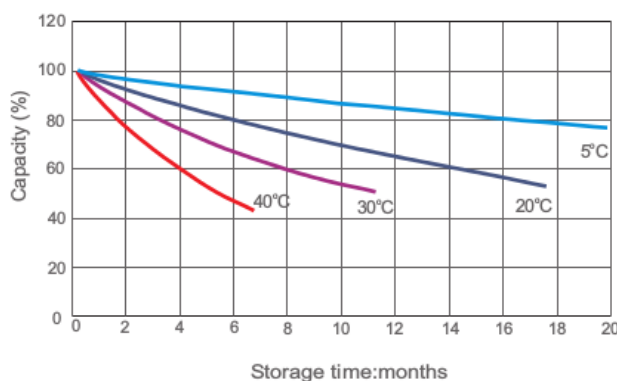
CHARGE CHARACTERISTICS



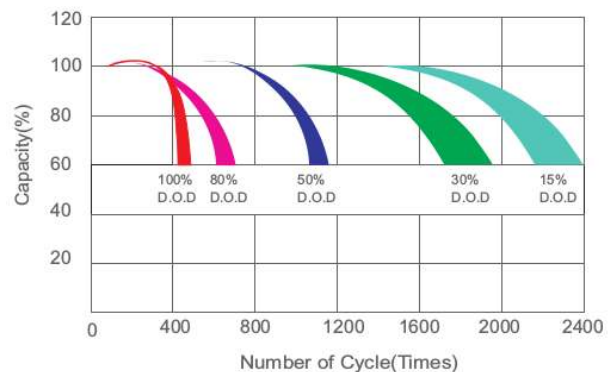
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC OF CYCLIC USE



## SPECIFICATIONS

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                                  |
| Capacity (25°C)                  | 225 Ah (C10)                                                                          |
| Energy                           | 2700 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              | 56 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 RDG12-225** 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:

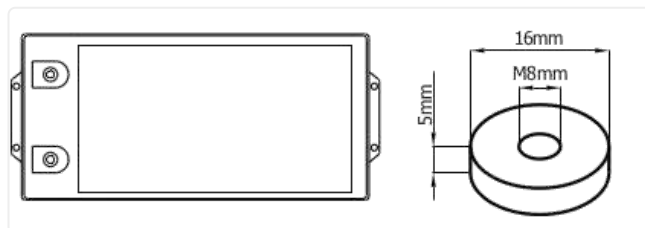
**Length:** 522 mm

**Width:** 238 mm

**Height:** 218 mm

**Total Height:** 222 mm

**Weight:** 64 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 56 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

**RDG12-200** (12 V · 200 Ah) · **RDG12-250** (12 V · 250 Ah) · [See all RDG series models](#)

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

## Deep cycling with full recovery from deep discharge.

The RDG12-250 is a 12 V, 250 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 520 × 269 × 220 mm and weighs 71 kg, with F12 terminals. It stores 3 kWh and delivers up to 1000 A. Deep cycling with full recovery from deep discharge. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and UPS and Data Centers.

Formerly **RKG12-250**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 250 Ah (C10)       |
| Energy          | 3000 Wh            |
| Weight          | 71 kg              |
| Terminal        | F12                |
| Dimensions      | 520 × 269 × 220 mm |

## MAIN ADVANTAGES

- ✓ **Recovery:** Superior performance after deep discharges
- ✓ **Stable:** Low electrolyte stratification
- ✓ **Longevity:** Excellent cycle life in harsh conditions
- ✓ **Gel Tech:** Thixotropic gel electrolyte

**12**  
YEARS

**LONG LIFE DESIGN**

\* EUROBAT CLASSIFICATION: 10-12 Years (High Performance).

**2**  
YEARS

**WARRANTY**

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

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY  
SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS  
AND BASE STATIONS**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

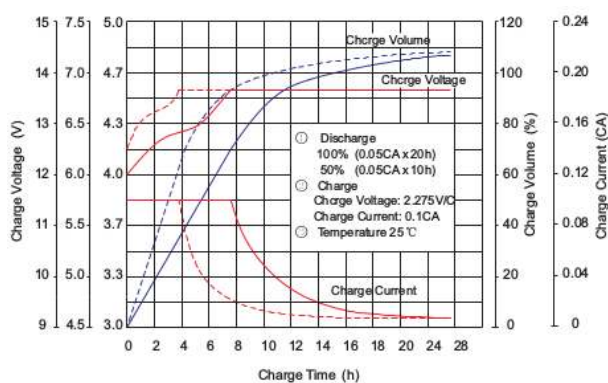
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|------|-------|-------|-------|-------|
| 11.10 V    | 373A | 338A  | 311A  | 144A  | 144A | 64.6A | 43.3A | 24.4A | 12.8A |
| 10.80 V    | 436A | 376A  | 342A  | 151A  | 151A | 66.8A | 44.4A | 25A   | 13.1A |
| 10.50 V    | 493A | 413A  | 366A  | 156A  | 156A | 68.1A | 45.4A | 25.5A | 13.4A |
| 10.20 V    | 567A | 445A  | 395A  | 159A  | 159A | 69.2A | 46A   | 25.9A | 13.6A |
| 10.02 V    | 636A | 490A  | 418A  | 264A  | 163A | 70A   | 46.4A | 26.2A | 14A   |
| 9.60 V     | 713A | 531A  | 443A  | 276A  | 167A | 70.8A | 47.1A | 26.5A | 14.3A |

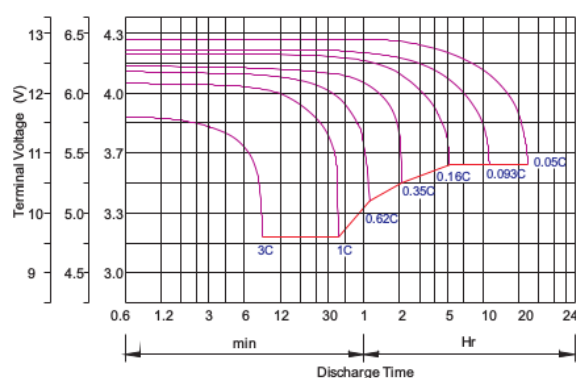
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR   | 10HR  | 20HR  |
|------------|-------|-------|-------|-------|------|------|-------|-------|-------|
| 11.10 V    | 703W  | 643W  | 595W  | 425W  | 280W | 127W | 85.7W | 48.7W | 25.8W |
| 10.80 V    | 808W  | 705W  | 646W  | 446W  | 289W | 130W | 87.1W | 49.7W | 26.2W |
| 10.50 V    | 902W  | 767W  | 687W  | 463W  | 297W | 131W | 88.5W | 50.3W | 26.5W |
| 10.20 V    | 1024W | 816W  | 732W  | 475W  | 300W | 132W | 88.9W | 50.6W | 26.9W |
| 10.02 V    | 1134W | 889W  | 767W  | 490W  | 305W | 133W | 89.1W | 50.9W | 27.3W |
| 9.60 V     | 1255W | 955W  | 809W  | 510W  | 312W | 134W | 89.6W | 51.2W | 27.7W |

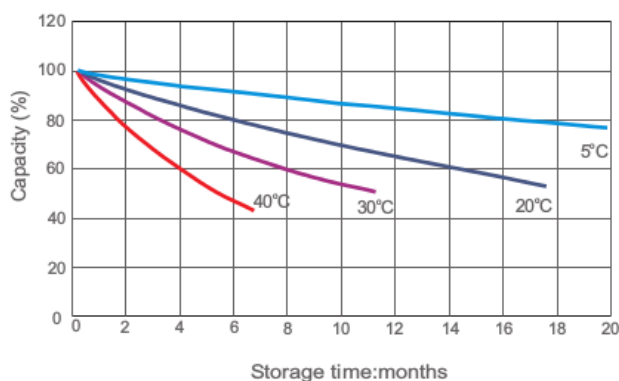
CHARGE CHARACTERISTICS



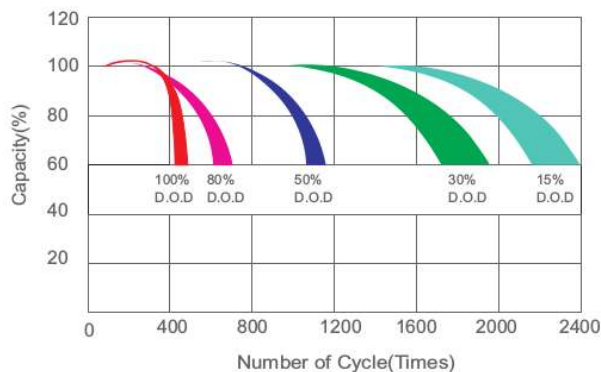
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC OF CYCLIC USE



## SPECIFICATIONS

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                                  |
| Capacity (25°C)                  | 250 Ah (C10)                                                                          |
| Energy                           | 3000 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              | 62.5 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 RDG12-250** 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:** 520 mm

**Width:** 269 mm

**Height:** 220 mm

**Total Height:** 220 mm

**Weight:** 71 kg

### 2. TERMINAL CONFIGURATION (F12)

**Terminals:** Ensure your system's connectors match the F12 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 62.5 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

**RDG12-225** (12 V · 225 Ah) · **RDG12-260** (12 V · 260 Ah) · [See all RDG series models](#)

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

## Deep cycling with full recovery from deep discharge.

The RDG12-260 is a 12 V, 260 Ah (10-hour rate) GEL Deep Cycle lead-acid battery from the Rekoser Deep Gel series. It measures 520 × 269 × 220 mm and weighs 72 kg, with F13 terminals. It stores 3.12 kWh and delivers up to 1000 A. Deep cycling with full recovery from deep discharge. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and UPS and Data Centers.

Formerly **RKG12-260**.

|                 |                    |
|-----------------|--------------------|
| Nominal Voltage | 12 V               |
| Capacity (25°C) | 260 Ah (C10)       |
| Energy          | 3120 Wh            |
| Weight          | 72 kg              |
| Terminal        | F13                |
| Dimensions      | 520 × 269 × 220 mm |

## MAIN ADVANTAGES

- ✓ **Recovery:** Superior performance after deep discharges
- ✓ **Stable:** Low electrolyte stratification
- ✓ **Longevity:** Excellent cycle life in harsh conditions
- ✓ **Gel Tech:** Thixotropic gel electrolyte

**12**  
YEARS

**LONG LIFE DESIGN**

\* EUROBAT CLASSIFICATION: 10-12 Years (High Performance).

**2**  
YEARS

**WARRANTY**

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

## MAIN APPLICATIONS



**SOLAR/WIND ENERGY  
SYSTEMS**



**ELECTRICAL SUBSTATIONS**



**TELECOMMUNICATIONS  
AND BASE STATIONS**



**UPS AND DATA CENTERS**

## QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

## GRAPHICS (25°C)

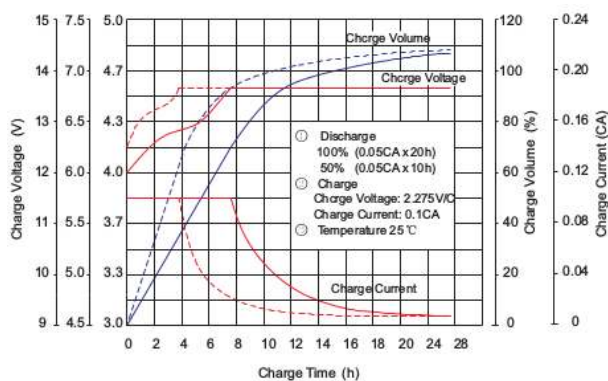
Constant Discharge Ratings (A) at 25°C

| F.V / Time | 5MIN | 10MIN | 15MIN | 30MIN | 1HR  | 3HR   | 5HR   | 10HR  | 20HR  |
|------------|------|-------|-------|-------|------|-------|-------|-------|-------|
| 11.10 V    | 388A | 352A  | 324A  | 230A  | 150A | 67.2A | 45A   | 25.3A | 13.3A |
| 10.80 V    | 454A | 391A  | 355A  | 244A  | 157A | 69.4A | 46.1A | 26A   | 13.6A |
| 10.50 V    | 513A | 430A  | 381A  | 255A  | 162A | 70.8A | 47.3A | 26.5A | 13.9A |
| 10.20 V    | 590A | 463A  | 410A  | 264A  | 165A | 71.9A | 47.9A | 26.9A | 14.2A |
| 10.02 V    | 661A | 509A  | 434A  | 274A  | 169A | 72.8A | 48.3A | 27.2A | 14.5A |
| 9.60 V     | 741A | 553A  | 461A  | 287A  | 174A | 73.7A | 48.9A | 27.6A | 14.8A |

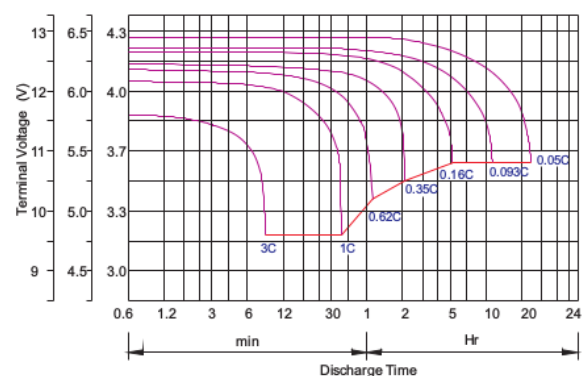
Constant Discharge Ratings (W) at 25°C

| F.V / Time | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR  | 3HR  | 5HR   | 10HR  | 20HR  |
|------------|-------|-------|-------|-------|------|------|-------|-------|-------|
| 11.10 V    | 732W  | 669W  | 619W  | 442W  | 291W | 132W | 89.1W | 50.6W | 26.8W |
| 10.80 V    | 840W  | 733W  | 672W  | 464W  | 301W | 135W | 90.6W | 51.7W | 27.3W |
| 10.50 V    | 938W  | 798W  | 714W  | 481W  | 309W | 136W | 92W   | 52.3W | 27.6W |
| 10.20 V    | 1065W | 849W  | 761W  | 494W  | 312W | 137W | 92.4W | 52.6W | 27.9W |
| 10.02 V    | 1179W | 925W  | 798W  | 509W  | 318W | 138W | 92.6W | 52.9W | 28.4W |
| 9.60 V     | 1305W | 993W  | 841W  | 530W  | 324W | 139W | 93.1W | 53.2W | 28.8W |

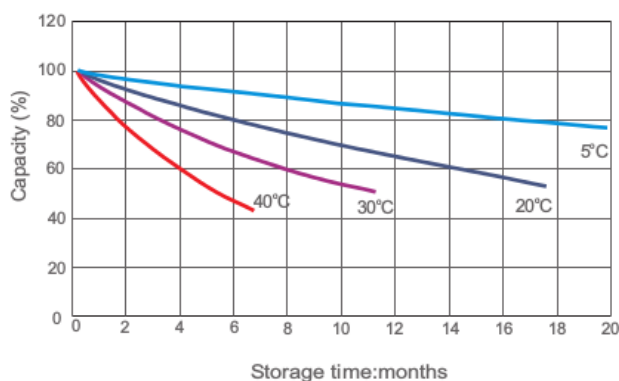
CHARGE CHARACTERISTICS



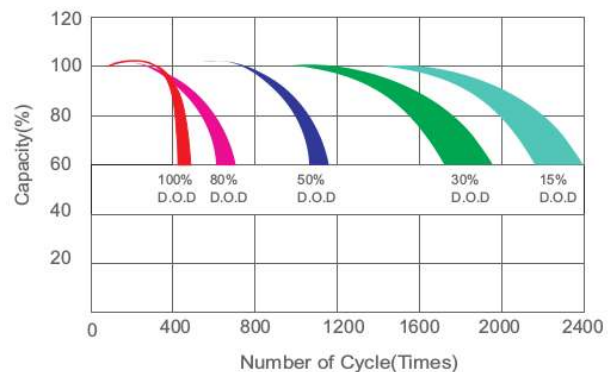
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTIC OF CYCLIC USE



## SPECIFICATIONS

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Nominal Voltage                  | 12 V                                                                                  |
| Capacity (25°C)                  | 260 Ah (C10)                                                                          |
| Energy                           | 3120 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              | 65 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 RDG12-260** 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:

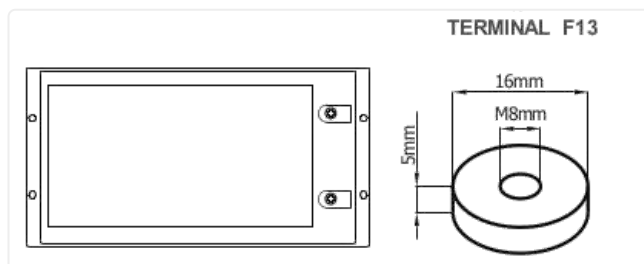
**Length:** 520 mm

**Width:** 269 mm

**Height:** 220 mm

**Total Height:** 22 mm

**Weight:** 72 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 65 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

**RDG12-250** (12 V · 250 Ah) · [See all RDG series models](#)

**Specialized Technical Support**

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