

The best of lead. Maintenance-free with extreme service life.

The ROV12-420M is a 12 V, 420 Ah (10-hour rate) OPzV lead-acid battery from the Rekoser OPzV (Tubular Gel) series. It measures 145 × 1236 × 471 mm and weighs 186 kg, with F10 terminals. It stores 5.04 kWh and delivers up to 2100 A. The best of lead. Maintenance-free with extreme service life. Typical applications: Solar/Wind Energy Systems, Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKV12-420M**.

Nominal Voltage	12 V
Capacity (25°C)	420 Ah (C10)
Energy	5040 Wh
Weight	186 kg
Terminal	F10
Dimensions	145 × 1236 × 471 mm

MAIN ADVANTAGES

- ✓ **Combination:** Tubular plates with gel electrolyte
- ✓ **Maintenance:** Zero maintenance required
- ✓ **Durability:** 20 years design life at 20°C
- ✓ **Install:** Can be installed horizontally in racks

20
YEARS

LONG LIFE DESIGN

* EUROBAT CLASSIFICATION: >12 Years (Very Long Life).

2
YEARS

WARRANTY

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

MAIN APPLICATIONS



SOLAR/WIND ENERGY SYSTEMS



ELECTRICAL SUBSTATIONS



TELECOMMUNICATIONS AND BASE STATIONS



RAILWAY SIGNALING AND INFRASTRUCTURE



MARITIME



UPS AND DATA CENTERS

QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

IEC61427

IEC 60896-21/22

YD/T1360

BS6290 part 4

GRAPHICS (25°C)

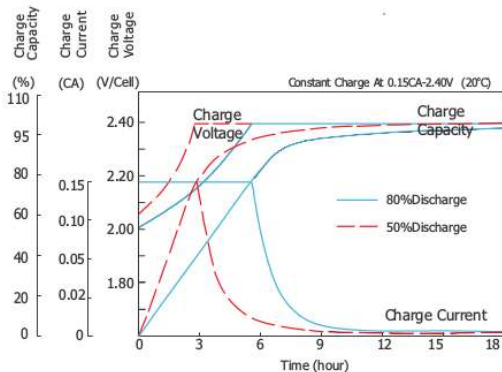
Constant Discharge Ratings (A) at 25°C

F.V / Time	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR
11.40 V	154A	150A	140A	118A	84A	62.2A	36.8A
11.10 V	241A	221A	190A	150A	100A	71.8A	40.4A
10.80 V	315A	286A	230A	182A	110A	75A	42A
10.50 V	334A	314A	270A	198A	113A	76.4A	43.3A
10.20 V	363A	344A	297A	209A	116A	77.7A	44.1A

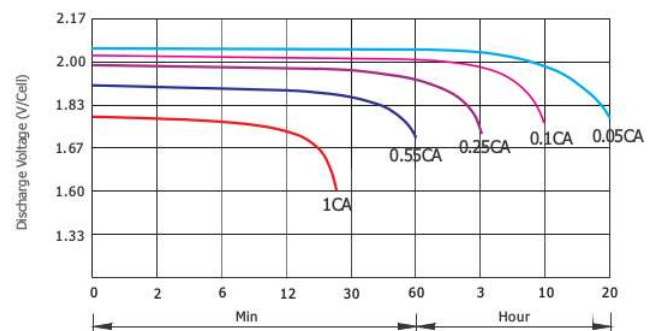
Constant Discharge Ratings (W) at 25°C

F.V / Time	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR
11.40 V	1782W	1740W	1638W	1386W	1002W	750W	445.8W
11.10 V	2706W	2490W	1560W	1716W	1164W	846W	481.8W
10.80 V	3438W	3132W	2550W	2034W	1260W	864W	490.8W
10.50 V	3588W	3384W	2946W	2184W	1278W	870W	499.8W
10.20 V	3852W	3666W	3192W	2280W	1290W	876W	505.8W

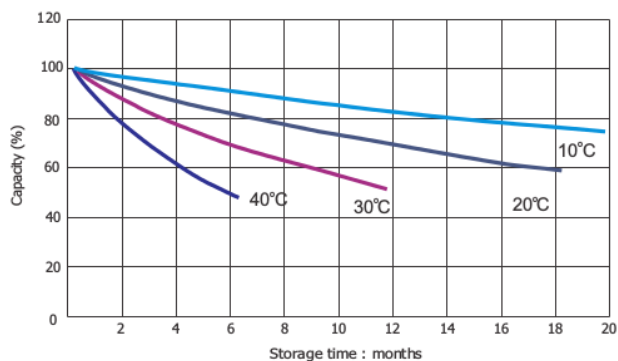
CHARGE CHARACTERISTICS



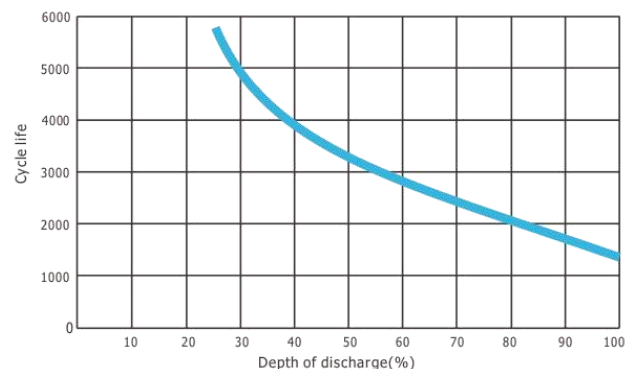
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25°C)	420 Ah (C10)
Energy	5040 Wh
Cell number	6
Charge Voltage (25°C)	Cycle use: 14.1-14.4V (-30mV/°C) Float use: 13.5-13.74V (-18mV/°C)
Max. Charge Current	84 A
Max. Discharge Current	2100 A
Short-circuit current	3400A
Internal Resistance	4.2 mΩ
Self Discharge	2 % 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(UL94-V0 optional)
Cover	ABS (Flame Retardant Optional)
Electrolyte	Immobilized Gel
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 ROV12-420M** 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: 145 mm

Width: 1236 mm

Height: 471 mm

Total Height: 506 mm

Weight: 186 kg

2. TERMINAL CONFIGURATION (F10)

Terminals: Ensure your system's connectors match the F10 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: 14.1-14.4V (-30mV/°C)

Float use: 13.5-13.74V (-18mV/°C)

Maximum Current: Do not exceed 84 A of charge.

4. SAFETY AND STORAGE

Maintenance: Immobilised gel and tubular plate: sealed, no water topping up.

Position: Upright, or horizontal on a rack.

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

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

NEARBY MODELS

ROV12-200 (12 V · 200 Ah) · See all ROV series models

Specialized Technical Support

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