

Maximum AGM longevity (2V). Critical infrastructure.

The RXL2-500 is a 2 V, 500 Ah (10-hour rate) AGM lead-acid battery from the Rekoser eXtended Long Life (AGM 2V) series. It measures 241 × 175 × 330 mm and weighs 30 kg, with F10 terminals. It stores 1 kWh and delivers up to 2500 A. Maximum AGM longevity (2V). Critical infrastructure. Typical applications: Railway Signaling and Infrastructure, Power Generation and UPS and Data Centers.

Formerly **RKE2-500**.

Nominal Voltage	2 V
Capacity (25°C)	500 Ah (C10)
Energy	1000 Wh
Weight	30 kg
Terminal	F10
Dimensions	241 × 175 × 330 mm

MAIN ADVANTAGES

- ✓ **Format:** 2V single cells for modular configuration
- ✓ **Design Life:** 20 years ultra-long life
- ✓ **Construction:** Thick plates for extended service
- ✓ **Stability:** Excellent performance in floating use

15
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



**RAILWAY SIGNALING AND
INFRASTRUCTURE**



POWER GENERATION



UPS AND DATA CENTERS

QUALITY STANDARDS

CE CERTIFIED

ISO 9001 / 14001

GB/T19639

IEC 61056

JIS C8702

GRAPHICS (25°C)

Constant Discharge Ratings (A) at 25°C

F.V / Time	30MIN	1HR	3HR	5HR	10HR	20HR
1.80 V	402A	274A	124A	86.3A	50A	26.3A
1.75 V	417A	282A	128A	89A	50.4A	26.4A
1.70 V	428A	288A	128A	89.6A	50.7A	26.6A
1.65 V	441A	296A	129A	90.2A	50.8A	26.7A
1.60 V	450A	300A	130A	90.8A	50.9A	26.7A

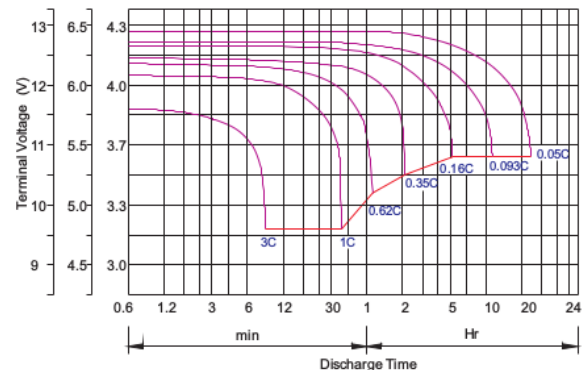
Constant Discharge Ratings (W) at 25°C

F.V / Time	30MIN	1HR	3HR	5HR	10HR	20HR
1.80 V	751W	520W	242W	170W	99.5W	52.5W
1.75 V	780W	536W	250W	175W	100W	52.9W
1.70 V	799W	547W	252W	177W	101W	53.2W
1.65 V	825W	561W	253W	178W	101W	53.3W
1.60 V	842W	570W	255W	179W	101W	53.4W

CHARGE CHARACTERISTICS



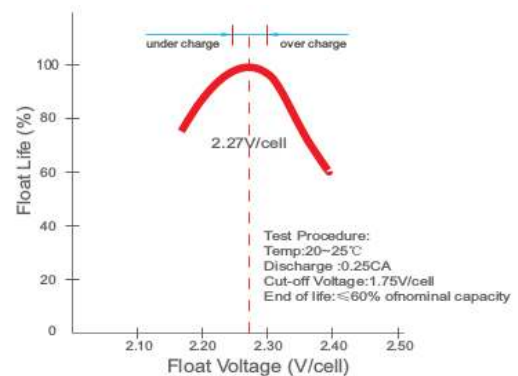
DISCHARGE CHARACTERISTIC 25oC



SELF DISCHARGE CHARACTERISTICS



FLOAT VOLTAGE VS FLOAT LIFE



SPECIFICATIONS

Nominal Voltage	2 V
Capacity (25°C)	500 Ah (C10)
Energy	1000 Wh
Cell number	1
Charge Voltage (25°C)	Cycle use: 2.35-2.40V (-3mV/C), max. Current 2.1A Float use: 2.25-2.29V (-2mV/C)
Max. Charge Current	100 A
Max. Discharge Current	2500 A
Internal Resistance	0.5 mΩ
Self Discharge	3 % of capacity per month at 25 °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 RXL2-500** 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:

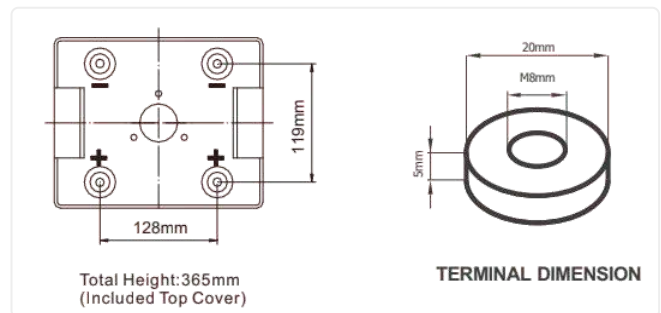
Length: 241 mm

Width: 175 mm

Height: 330 mm

Total Height: 365 mm

Weight: 30 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: 2.35-2.40V (-3mV/C), max. Current 2.1A

Float use: 2.25-2.29V (-2mV/C)

Maximum Current: Do not exceed 100 A of charge.

4. SAFETY AND STORAGE

Maintenance: Sealed AGM technology, maintenance-free and leak-proof.

Position: Can be installed in any orientation, except inverted.

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

NEARBY MODELS

RXL2-400 (2 V · 400 Ah) · **RXL2-600** (2 V · 600 Ah) · See all RXL series models

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