

Energy density and ultra-fast charging.

The RLS24-40 is a 24 V, 40 Ah (20-hour rate) LiFePO4 lithium battery from the Rekoser Lithium Standard series. It measures 270 × 250 × 200 mm and weighs 13 kg, with M8 terminals. It stores 960 Wh and delivers up to 80 A. Energy density and ultra-fast charging. Typical applications: Solar/Wind Energy Systems, Telecommunications and Base Stations, UPS and Data Centers and Light Electric Vehicles.

Formerly RKL24-40.

Nominal Voltage	24 V
Capacity (25°C)	40 Ah (C20)
Energy	960 Wh
Weight	13 kg
Terminal	M8
Dimensions	270 × 250 × 200 mm

MAIN ADVANTAGES

- ✓ **Drop-in replacement:** Takes the place of a lead-acid battery
- ✓ **Cycle life:** Up to 20 times more cycles than lead
- ✓ **Light:** 60% less weight
- ✓ **Built-in BMS:** Protection and ultra-fast charging

10
YEARS

LONG LIFE DESIGN

5
YEARS

WARRANTY

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

MAIN APPLICATIONS



SOLAR/WIND ENERGY
SYSTEMS



TELECOMMUNICATIONS
AND BASE STATIONS



UPS AND DATA CENTERS



LIGHT ELECTRIC VEHICLES

QUALITY STANDARDS

CE CERTIFIED

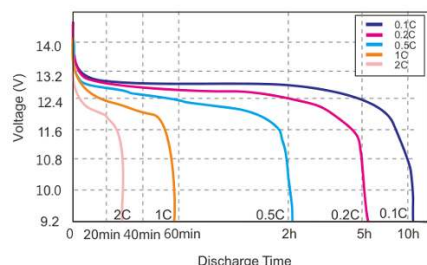
ISO 9001 / 14001

IEC62133

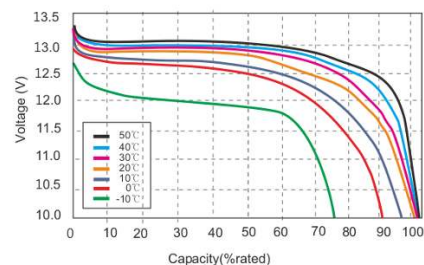
RoHS

GRAPHICS (25°C)

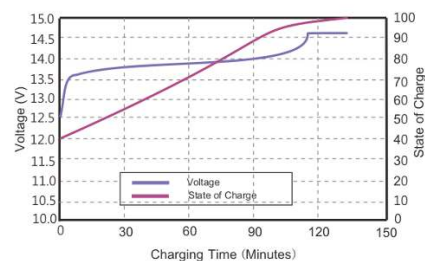
RATE DISCHARGE CHARACTERISTICS 25°C



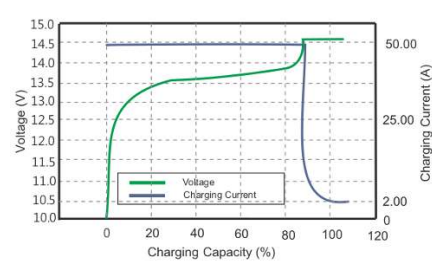
TEMPERATURE DISCHARGE CHARACTERISTICS 25°C



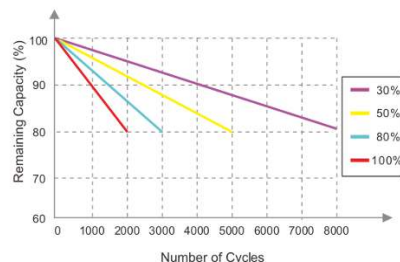
STATE OF CHARGE CURVE



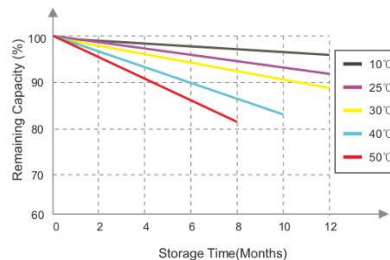
CHARGING CHARACTERISTICS



CYCLE LIFE CURVE



SELF-DISCHARGE CHARACTERISTICS



SPECIFICATIONS

Nominal Voltage	24 V
Capacity (25°C)	40 Ah (C20)
Energy	960 Wh
Cell (Method)	26650 (4S13P)
Charge Voltage (25°C)	Cycle use: 29,2V±0.2V
Charge Mode	Standard 10A×4hrs Quick 20A×2hrs
Charge Cut-off Voltage	20V±0.2V
Max. Charge Current	40 A
Continuous Discharge Current	40A
Max. Discharge Current	80 A (<3s)
Discharge Cut-off Voltage	8V
Internal Resistance	4 mΩ
Self Discharge	3 % of capacity per month at 25 °C
Efficiency of Charge	100% @0.5C
Efficiency of Discharge	96~99% @1C
Cycle Life	>2000 cycles @1C 100%DOD
Protocol (optional)	SMBus/RS485/RS232
SOC (optional)	LED
Water Dust Resistance	IP56

CONSTRUCTION

Component	Material
Container	ABS (Flame Retardant Optional)
Cover	ABS (Flame Retardant Optional)
Sealant	Epoxy Resin
Terminal	Copper

QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER RLS24-40** 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: 270 mm

Width: 250 mm

Height: 200 mm

Total Height: 200 mm

Weight: 13 kg

2. TERMINAL CONFIGURATION (M8)

Terminals: Ensure your system's connectors match the M8 type to prevent electrical arcing.

Polarity: Check the positive and negative markings on the battery before connecting, to prevent short circuits.

3. CHARGE PARAMETERS

Cycle use: 29,2V±0.2V

Maximum Current: Do not exceed 40 A of charge.

4. SAFETY AND STORAGE

Maintenance: Maintenance-free. The built-in BMS protects the battery.

Storage: Store at partial charge, in a cool and dry place.

Charging: Use a LiFePO4 charger at the stated voltage; do not charge below 0 °C.

NEARBY MODELS

See all RLS series models

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