

Energy density and ultra-fast charging.

The RLS12-20 is a 12.8 V, 20 Ah (20-hour rate) LiFePO4 lithium battery from the Rekoser Lithium Standard series. It measures 181 × 77 × 167 mm and weighs 3 kg, with T3 terminals. It stores 256 Wh and delivers up to 50 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 RKL12-20.

Nominal Voltage	12.8 V
Capacity (25°C)	20 Ah (C20)
Energy	256 Wh
Weight	3 kg
Terminal	T3
Dimensions	181 × 77 × 167 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

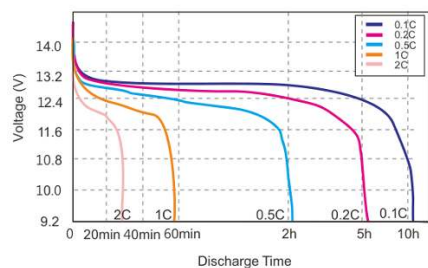
ISO 9001 / 14001

IEC62133

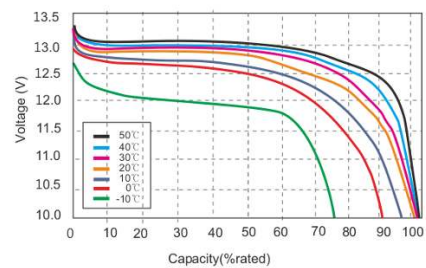
RoHS

GRAPHICS (25°C)

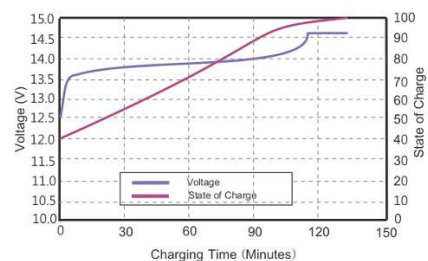
RATE DISCHARGE CHARACTERISTICS 25°C



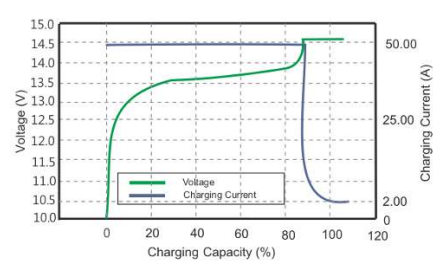
TEMPERATURE DISCHARGE CHARACTERISTICS 25°C



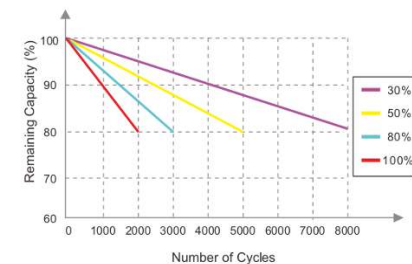
STATE OF CHARGE CURVE



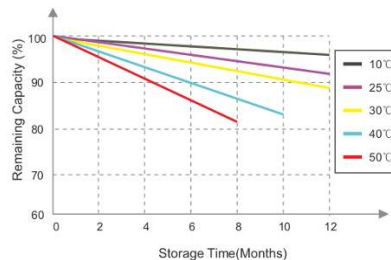
CHARGING CHARACTERISTICS



CYCLE LIFE CURVE



SELFDISCHARGE CHARACTERISTICS



SPECIFICATIONS

Nominal Voltage	12.8 V
Capacity (25°C)	20 Ah (C20)
Energy	256 Wh
Cell (Method)	26650 (4S6P)
Charge Voltage (25°C)	Cycle use: 14.6±0.2V
Charge Mode	0.2C to 14.6V, then 14.6V,charge current to 0.02C (CC/CV)
Charger Current	10A
Charge Cut-off Voltage	15.6V±0.2V
Max. Charge Current	20 A
Continuous Discharge Current	40A
Max. Discharge Current	50 A (<3s)
Discharge Cut-off Voltage	8V
Internal Resistance	50 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 RLS12-20** 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:

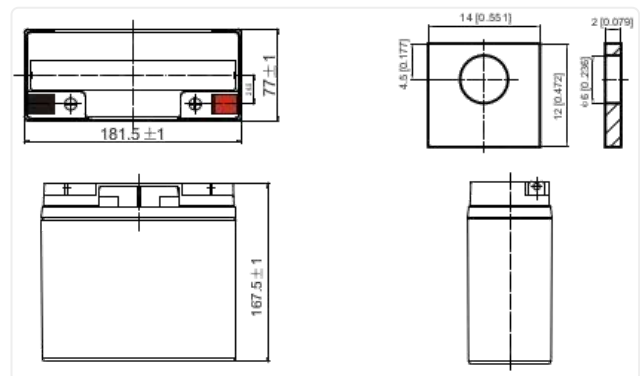
Length: 181 mm

Width: 77 mm

Height: 167 mm

Total Height: 167 mm

Weight: 3 kg



2. TERMINAL CONFIGURATION (T3)

Terminals: Ensure your system's connectors match the T3 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±0.2V

Maximum Current: Do not exceed 20 A of charge.

4. SAFETY AND STORAGE

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

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

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

NEARBY MODELS

RLS12-18 (12.8 V · 18 Ah) · **RLS12-26** (12.8 V · 26 Ah) · [See all RLS series models](#)

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