



RS-R series

Rack-mounted residential energy storage system solutions with lithium iron phosphate cells provide a safe, reliable and integrated solution for applications such as residential photovoltaic, backup power, and other applications.

SAFE & RELIABLE

- High safety LiFePO4 battery.
- Compliance with IEC62619, UL1973, UN38.3, CE, UKCA, UL9540A. (Pending)

FLEXIBLE

- 3U(133mm) standard height design.
- Optional bracket kits for different installation scenarios.

MODULAR DESIGN

- Support up to 32 units in parallel.
- Scalable from 15kWh to 160kWh. (RS-R51100A)
- Scalable from 2kWh to 81kWh. (RS-R24100B)

ULTRA PERFORMANCE

- More than 6000 cycles.
- Self-developed BMS/ Cell/ Pack to ensure high quality.
- Heating function. (Optional)

COMPATIBILITY

- Compatible with most hybrid/ battery inverter in self-consumption, back-up and off-grid applications.

INTELLEGENCE

- Strong pre-charge and balancing capability.
- Remote data history & firmware upgrading function via T-smart Cloud platform. (Pending)



Parameters

Model	RS-R51100A	RS-R24100B
Nominal voltage	51.2V	25.6V
Nominal capacity	100Ah	100Ah
Nominal energy@0.2C	5.12kWh	2.56kWh
Usable energy@0.2C	4.92kWh	2.46kWh
Operation voltage range <small>(With communication)</small>	48V~56V	24V~28V
Charge voltage	56V	28V
Recommend charging current		50A
Max. charging current		70A
Recommend discharging current		50A
Max. discharging current		100A
Communication		RS485 /CAN
Rating		IP20
Cycle life		≥6000 cycles, @25°C , @0.2C , @90%DOD, @60%EOL
Weight	≈46kg (101.4 lbs)	≈25kg (55.1 lbs)
Dimension(W*H*D)	482*133.5*460mm (18.9*5.2*18.1 inch)	441*133.5*276mm (17.3*5.2*10.8 inch)
Operation temperature range <small>(With communication)</small>	Charge 0~50°C (32~122°F), Discharge -10~50°C (14~122°F)	Charge -10~50°C (14~122°F), Discharge -20~50°C (-4~122°F)
Relative humidity		5%~90%, No condensation
Install altitude		≤4000m
Installation		Wall mounted/ Floor mounted/ Stack mounted/ Rack mounted/ Cabinet mounted

RS-R series Installation mode

Wall mounted



Floor mounted



Stack mounted



Rack mounted



Cabinet mounted

