



RS-R51100A-IOT

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.
- with IEC62619, UL1973, UN38.3, CE, UKCA.

FLEXIBLE

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

MODULAR DESIGN

- Support up to 32 units in parallel.
- Scalable from 5kWh to 160kWh.

ULTRA PERFORMANCE

- More than 6000 cycles. Built-in heater optional.
- Self-developed BMS/ Cell/ Pack to ensure high quality.

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.
- Self-heating feature optional



Parameters

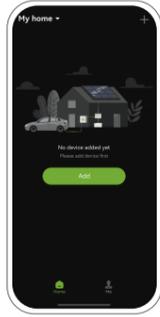
Model	RS-R51100A-IOT
Nominal voltage	51.2V
Nominal capacity	100Ah
Nominal energy@0.2C	5.12kWh
Usable energy@0.2C	4.92kWh
Operation voltage range	48V~56V
Charge voltage	56V
Recommend charging current	50A
Max. charging current	100A
Recommend discharging current	50A
Max. discharging current	100A
Communication	RS485 /CAN
Rating	IP20
APP Supporting	Yes
Cycle life	≥6000 cycles, @25°C , @0.5C , @90%DOD, @70%EOL
Weight	≈46kg (101.4 lbs)
Dimension(W*H*D)	482*133.5*460mm (18.9*5.2*18.1 inch)
Operation temperature range	Charge 0~50°C (32~122°F), Discharge -10~50°C (14~122°F)
Relative humidity	5%~90%, No condensation
Install altitude	≤4000m
Installation	Wall mounted/ Floor mounted/ Stack mounted/ Rack mounted/ Cabinet mounted
Certification	IEC62619, UL1973, UN38.3, CE, UKCA.

RS-R Series Installation Mode



Ecosolex Home app

Exercise full control over your energy usage. The portal makes energy management easy — allowing you to monitor, manage, and analyse your system in the cloud.



Select Site



Household Management



System Management



Data Viewing



Data Viewing



PC terminal



IOS & Android

