



## YOLANESS RS-R series battery

YOLANESS RS-R series battery packs are rack type residential lithium batteries, designed entirely for residential ESS applications. With our battery technology, you can easily combine it with a mainstream inverter in different scenarios to save your electrical bill & back-up your power during grid outage or unavailable.

### Features



#### Safe & Reliable

Cobalt free with safe LiFePO4 chemistry, compliance with UL1973, IEC62619, CE, UN38.3, etc.



#### Modular

Support up to 32 units in parallel, scale from 5 kWh to 160 kWh configuration without external controller.



#### Ultra performance

More than 6000 cycles, support max. 1C discharge rate and 96% DOD, self-developed BMS/Cell/Pack to ensure best quality.



#### Compact & Flexible

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



#### Compatibility

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



#### Intelligence

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

### Parameters

Items	RS-R51100A
Rated voltage	51.2V
Nominal capacity	100Ah
Nominal energy	5.12kWh
Usable energy	4.92kWh
Operating voltage range	44.8-56.0V
Charge voltage	56V
Float voltage	54.6V
Recommended charge current	50A
Max. charge current	70A
Recommended discharge current	50A
Max. discharge current	100A
Communication	RS485 /CAN
Peak discharge current	101~119A@5mins   120~149A@15S
IP rating	IP20
Cycle life	≥6000 cycles
Net weight	~47kg (103.6lb)
Dimension(W*H*D)	482*133.5*460mm (18.9*5.2*18.1 inch)
Cell technology	Lithium-iron phosphate(LiFePO4)
Install altitude	≤4000m
Noise emission	<29 dB
Operation temperature	-10~50°C
Storage temperature	-10~45°C
Relative humidity	5%~90%, No condensation
Install location	Indoor
Installation	Wall mounted/ Floor mounted/ Stack/ Rack mounted
Certification	CE/ IEC62619 / UL1973 / UN38.3

[1] Test conditions: 90% depth of discharge (DOD), 0.2C rate charge & discharge at 25°C.  
 [2] System Usable Energy may vary different inverter brand.  
 [3] Derating occurs when the operating temperature from -10°C to 10°C & 40°C to 50°C.

