



RS-RH series

RS-RH 614100A is designed for indoor use high-voltage lithium-ion battery. It is suitable for high power needs families with swimming pools, heating devices or other large household appliance. Moreover, RS-RH could apply for light small businesses to smooth the load curve and achieve peak load transfer. It could be located in narrow space in urban environment such as supermarkets, hotels, restaurants and so on. It could be operated with easy installation and convenient maintenance.

SAFE & RELIABLE

- High safety LiFePO₄ battery.
- Cell compliance with IEC62619, UL1973, UL9540A, UN38.3, RoHS.

MAXIMUM ROI

- More than 6000 cycles.
- High performance cost ratio.

CONVENIENT

- 3U design for quick installation.
- Convenient maintenance.

INTELLIGENT

- Self-developed BMS.
- Providing protection functions including over-discharge, over-charge, balancing and so on.
- App monitoring.

FLEXIBLE CONFIGURATION

- Support 3 to 12 battery module in series.
- Up to 8 racks in parallel.

CUSTOMIZED

- Compatible with most inverters in self-consumption, back-up and off-grid application.
- EU standard / US standard optional.
- Black or White colors available.

Parameters

Model	RS-RH series									
	153100A	204100A	256100A	307100A	358100A	409100A	460100A	512100A	563100A	614100A
Number of battery modules	3(Min)	4	5	6	7	8	9	10	11	12
Nominal voltage	153.6V	204.8V	256V	307.2V	358.4V	409.6V	460.8V	512V	563.2V	614.4V
Manage battery energy	15.36kWh	20.48kWh	25.6kWh	30.72kWh	35.84kWh	40.96kWh	46.08kWh	51.2kWh	56.32kWh	61.44kWh
Operation voltage range	139.2~175.2V	185.6~233.6V	232~292V	278.4~350.4V	324.8~408.8V	371.2~467.2V	417.6~525.6V	464~58.4V	510.4~642.4V	556.8V~700.8V
Module nominal voltage	51.2V									
Module energy	5.12kWh									
Manage battery capacity	100Ah									
Recommend charging current	50A									
Max. charging current	100A									
Recommend discharging current	50A									
Max. discharging current	100A									
Communication to inverter	RS485 / CAN									
Display	LED indicator, LCD display (Optional)									
Rating	IP20									
Cycle life	≥6000 Cycles @25°C @60%EOL @0.2C charge & 0.5C discharge, 80% DOD									
Module dimension(W*D*H)	442*460*133mm									
Battery module weight	≈45kg									
Dimension(W*D*H)	546*584*1560mm						546*584*2121mm			
Operation temperature range	Charge 0~50°C (32~122°F), Discharge -10~55°C (14~131°F)									
Relative humidity	5%~90%, No condensation									
Install altitude	≤4000m									
Installation	Rack mounted									

System Components

High voltage battery cluster control box conforming to Europe standard

Operating voltage	120Vdc ~ 750Vdc
Nominal charge/discharge current	100A
Max. charge/discharge current	125A
Operating temperature range	-20~60°C
Ingress protection	IP20
Dimension (W*D*H)	440*498*177.8mm
Weight	≈15.5kg

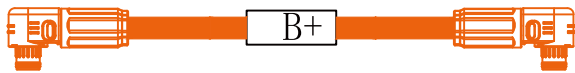


High voltage battery cluster control box conforming to North American standard

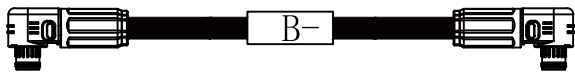
Operating voltage	120Vdc ~ 750Vdc
Nominal charge/discharge current	100A
Max. charge/discharge current	125A
Operating temperature range	-20~60°C
Ingress protection	IP20
Dimension (W*D*H)	440*570*200mm
Weight	≈17kg



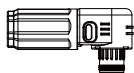
High voltage box standard configuration



■ 1800mm Positive power cable (for control box)



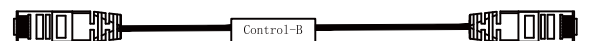
■ 35mm Negative power cable (for control box)



■ Positive terminal



■ Battery and control box communication cable (1850mm)



■ Battery and control box communication cable (205mm)

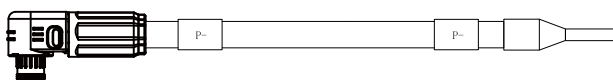


■ Negative terminal

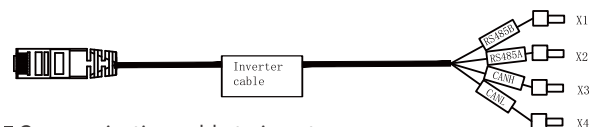
High voltage box selective configuration



■ Positive power cable to inverter



■ Negative power cable to inverter



■ Communication cable to inverter



■ LCD display

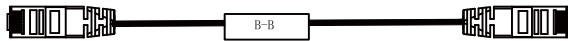


■ Emergency stop button

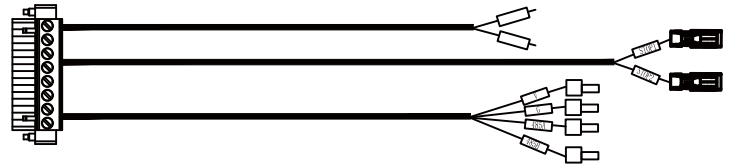
System Components

5.12kWh battery module

Battery type	LiFePO4(LFP)
Nominal voltage	51.2Vdc
Rated capacity	100Ah
Rated energy	5.12kWh
Nominal charge/discharge current	100A
Peak. discharge current	125A
Charge temperature	0~50°C
Discharge temperature	-10°C ~ 50°C
Ingress protection	IP20
Dimension (W*D*H)	440*498*133mm
Weight	≈45kg



■ Power cable between batteries



■ Communication cable



Standard 19inch rack, caninstall 12 pcs batteries
and 1 pcs high voltage battery cluster control box



Standard 19inch rack, caninstall 8 pcs batteries
and 1 pcs high voltage battery cluster control box