

Lithium-ion Battery Pack

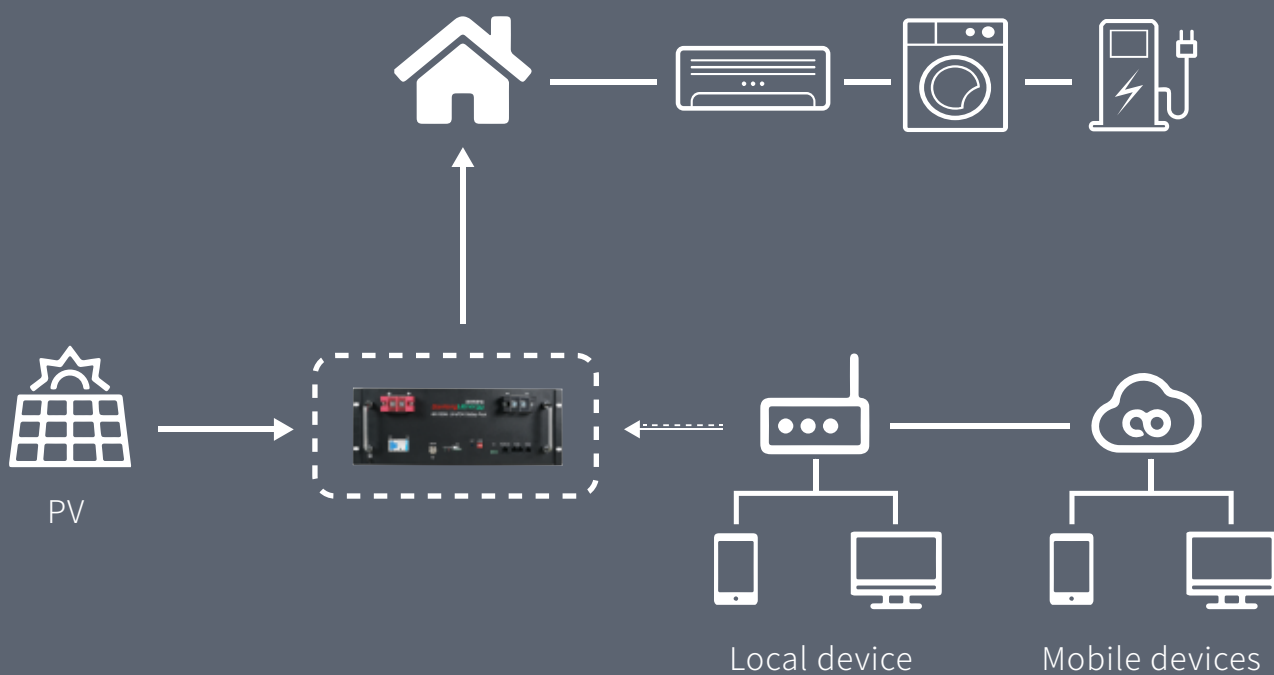
HC-R48-01





Suitable for off-grid residential energy storage system

Schematic diagram of system operation



Lithium-ion Battery Pack HC-R48-01



Technical advantages



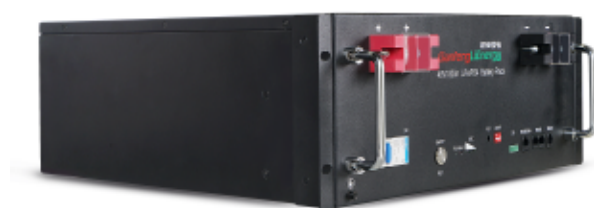
LiFePO₄ chemicals give batteries a safer performance, longer life and energy density.



Built- in highly stable BMS system with protection functions such as overcharge, discharge, overcurrent, high and low temperature, etc.



Support up to 16 sets of battery parallel to cope with high power demands.



Technical parameter

Type	HC-R48-01/KY-48100
Battery Type	LiFePO4@GF
Compound Mode	1P15S
Rated Battery Voltage	48V
Energy	4800Wh
Nominal capacity	100Ah
Standard charge current	100A
Max charging current	100A
End charge current	2A
Standard Discharge Current	100A
Max Discharge Current	100A
Max.Pulse Discharging Current	125A for 10sec
Discharging Cut-off Voltage	40.5V
Standard Charging Voltage	54V
Upper Limit of Charging Voltage	54.75V
Depth of Discharge	80%
Cycle Life	4000 Cycle SOH \geq 60%,5000 Cycle SOH \geq 50%
Impedance	<100m Ω
Size	483*491*177mm
Weight	\approx 43kg
Discharge temperature range	-10°C~55°C & -50~131°F
charge temperature range	0°C~45°C & -32~113°F
Storage temperature range	-40°C~55°C & -104~131°F
Operating Temperature Range	\leq 85%
Shell material	SPCC 1.5mm
Current limiting function	Limited20A
Precharge function	enable
Communication type	232/RS485/CAN
Reverse connection protection	Enable
Compatible Inverters	HY Green Energy, Voltronic power, Deye, Growatt and more

- Cell meets IEC62619, CE standards, and ROHS requirements
Battery meets UN38.3 requirements
- 1C A grade life cells