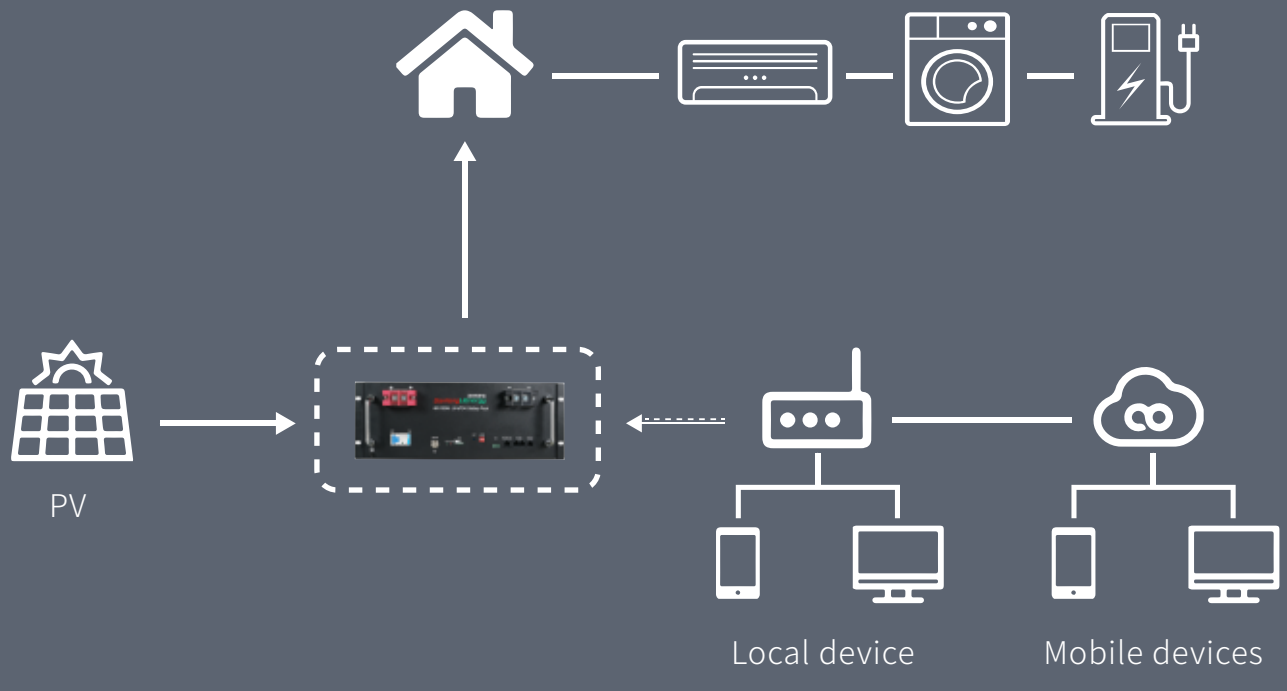
赣锋锂电
GanfengLiEnergy

Lithium-ion Battery Pack

HC-R52-01

Suitable for off-grid residential energy storage system

Schematic diagram of system operation



Lithium-ion Battery Pack
HC -R52-01

Technical advantages

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

BMS

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 -R52-01//KY-52100
Battery Type	LiFePO4@GF
Compound Mode	1P16S
Rated Battery Voltage	51.2V
Energy	5120Wh
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 Dischargiung Current	125A for 10sec
Discharging Cut-off Voltage	43.2V
Standard Charging Voltage	57.6V
Upper Limit of Charging Voltage	58.4V
Depth of Discharge	80%
Cycle Life	4000 Cycle SOH≥60%,5000 Cycle SOH≥50%
Impedance	＜100mΩ
Size	483*491*177mm
Weight	≈45kg
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	≤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