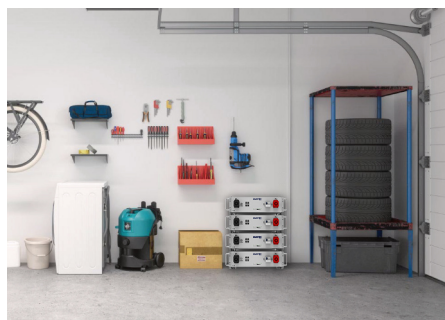




Residential LFP Battery Series

51.2V 100Ah 5.12kWh



A+ grade lithium iron phosphate

(A+ is the best grade and is used in electric vehicles)



10-20 Year Design Life

FEATURES

Longer Life and Safer

- A+ grade lithium iron phosphate
- Battery management system with multi-level protection

Flexible and Expandable

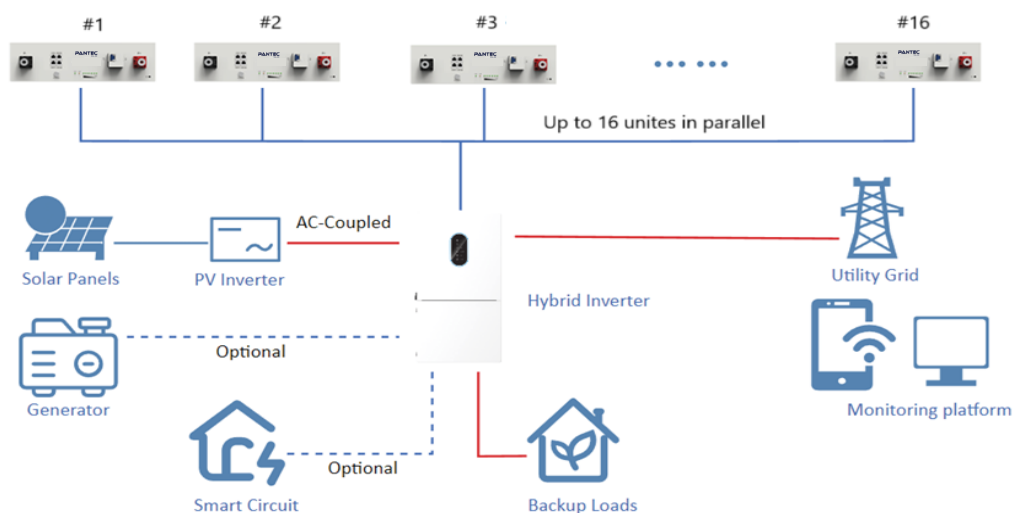
- Up to 12 units in parallel
- The system's energy capacity is up to 81kWh

Easy to Install and Use

- Applications Residential, Commercial, Industrial, Off-grid, Grid tie and Self-consumption. Compatible with all 48V inverters that support LFP.

Smart

- A self-developed battery management system (BMS) that is capable of intelligent and efficient power output management
- Able to charge at nearly 100% efficiency
- Guaranteed not to lose closed loop communications during possible future updates with MidNite AIO inverter or battery firmware



Product Name

R5-5A

Electrical Characteristics

Nominal Voltage	51.2V
Nominal Capacity	100Ah
Energy	5,120Wh
Battery Chemistry	Lithium Iron Phosphate (LFP)
Impedance	$\leq 0.30m\Omega$
Cycle Life	6,000 cycles @77°F(25°C), 0.5C/0.5C
Operating Voltage	44.8~56.16V
Communication Interfaces	CAN/RS485/RS232
Scalable	Up to 16units

Charge&Discharge

Nominal Discharging Rate	0.5C50A
Max. Discharging Rate	1C100A
Nominal Charging Rate	0.5C50A

Environmental

Environment	Indoor (Type 1)
Operating Temperature	-4°F to 122°F (-20°C to 50°C)
Storage Temperature	14°F to 113°F (-10°C to 45°C)
Altitude	Maximum 9,843 ft (3,000 m)
Cooling Method	Natural Convection
Ingress Rating	IP20

Mechanical

Dimension (L x W x D)	17.7×17.4×5.2in (450*444*133mm)
Weight	96.5lbs (43.8kg)
Installation	Rack mount