

5 kWh Lithium-Iron Phosphate (LiFePO₄) YouSolar Battery Pack

General Specifications	
Nominal Potential	51.2V
Potential range	44 to 56.8V
Capacity	100
Continuous charge current	100 A
Continuous discharge current	100 A
Charge/discharge rate	1C*
Peak current	120 A, T ≤ 0.3s
Storage temperature	T < 86 °F, State of charge between 20 % to 60 %
Output	Terminal lugs
Communication type	Double RS485
Protection function	Over-charge; over-discharge; over-current; short circuit; temperature protection

Mechanical Data	
Dimensions	17" × 16.625" × 8.75" (includes handles)
Handle stand-off	1.5"
Weight	106 lbs
Installation	Rack or floor-mounted
Cooling	Natural convection — No fan
Case material	Metal
Included	BMU/BMS/Modbus

Battery Chemistry	
Energy	5,120 Wh (100% Depth of Discharge at 0.2 C* at 77 °F)
Chemistry	Lithium-Iron Phosphate (LiFePO ₄)
Cycle life	4000+ cycles (at 0.2 C*, 80% Depth of discharge)
Temperature range	14 °F to 113 °F

* The unit C stands for the charge or discharge power of a battery with regards to the battery's energy storage capacity. Typical C is expressed as kW/kWh, or 1/h.

Warranty	
Workmanship	1 year

Features & Compliance	
Compliance	UL1973, UL1642, UN38.3
Stacking	Up to 14 units in parallel

Battery Operation	
Bulk	55.2V
Absorb	55.2V
Float	55V
Low cut off	48V
Absorb time	60 Minutes
Recharge	54V
Battery activation	Press "RESET" with a pen or small screwdriver



YouSolar battery pack for residential, commercial, and emergency applications.

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