

Rack Mounted Battery 409.6V / 614.4V 100AH(A)



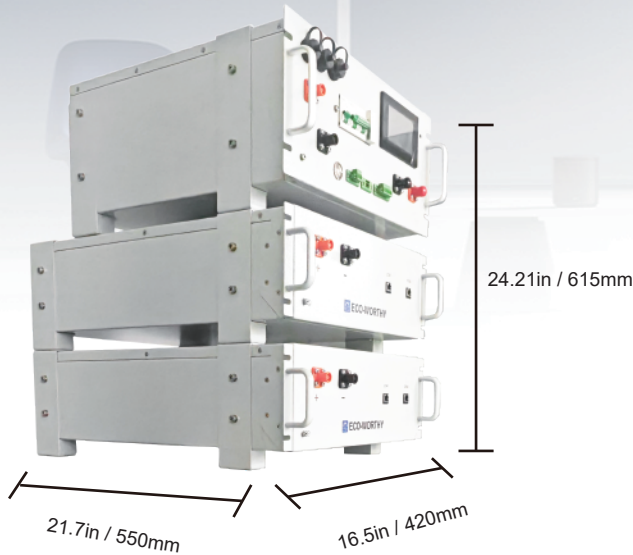
Technology

Lithium Iron Phosphate (LiFePO ₄)		
Model	409.6V100AH-A(8)	614.4V100AH-A(12)
Nominal Voltage	409.6V	614.4V
Nominal Capacity	100Ah	100Ah
Nominal Energy	40.96KWh	61.44KWh
Battery Type	LFP	
Cycle Life	6000(80%DOD,0.5C,25C)	
Maximum Number of Units in Series	8 units	12 units
Charge Cut-off Voltage	467.2V	700.8V
Discharge Cut-off Voltage	345.6V	518.4V
Standard Charge Current	50A	
Maximum Charge Current	100A	
Standard Discharge Current	50A	
Maximum Discharge Current	100A	
Dimensions	420*550*1725mm(A)	420*550*2465mm(A)
Weight	400kg(A)	585kg(A)
Communication	CAN/RS485/RS232	
Charging Temperature Range	0°C-55°C	
Discharging Temperature Range	-20°C-65°C	
Cooling Method	Natural Cooling	
Protection	Built-in Smart BMS	
IP Rating	IP30	
Warranty	5 Years	
Certification	MSDS,UN38.3,CE-EMC,IEC62619	

FEATURES:

- BMS Protection**
 Overcharge/Over-discharge Protection, Charge/Discharge Over-current Protection, Short-Circuit Protection, Battery Voltage Self-Balancing, High-temperature Discharge Cut-off.
- High Capacity and Lightweight**
 Compact size and easy to move, making it an ideal choice for indoor power supply.
- Wide Range of Applications**
 Suitable for off-grid or hybrid systems.
- Long Lifespan**
 Can be cycled up to 6000 times.
- Easy Installation**
 Supports floor-standing, stacked, rack-mounted or wall-mounted installation.
- Multi-Brand Compatibility**
 Compatible with multiple inverter protocols from various brands, and can communicate directly with computers.
- Capacity Expansion**
 Up to 8 units / 12 units can be connected in series, expandable to 40.96kWh(8 units) / 61.44kWh(12 units).
- Smart Control**
 ECO-WORTHY APP.

Unit Dimensions



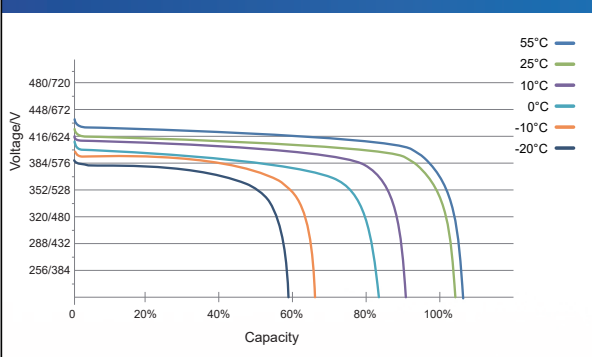
Mechanical

Model	409.6V 100AH-A(8)	614.4V 100AH-A(12)
Length	16.5in / 420mm	16.5in / 420mm
Width	21.7in / 550mm	21.7in / 550mm
Height	67.9in / 1725mm	97in / 2465mm
Weight	881.8lbs / 400kg	1289.7lbs / 585kg
Terminals	M8 insert	M8 insert

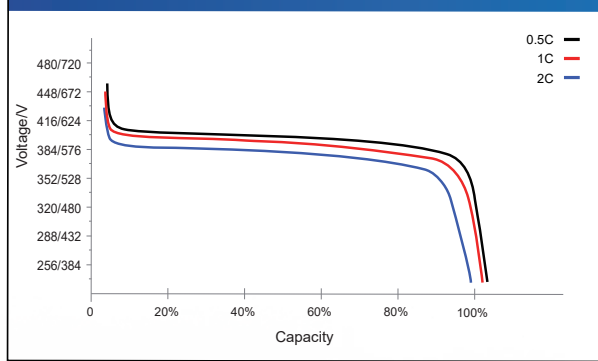
Materials

Case and Cover	METAL
Color	WHITE

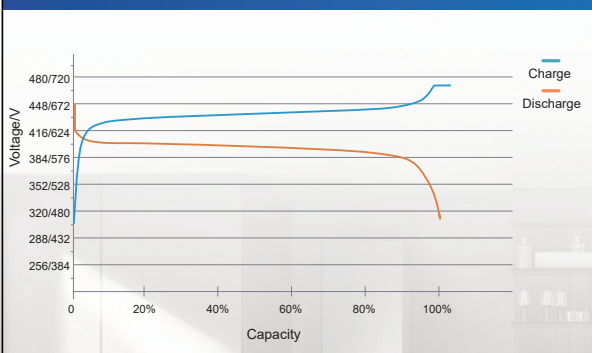
Discharge Characteristics At Various Temperatures



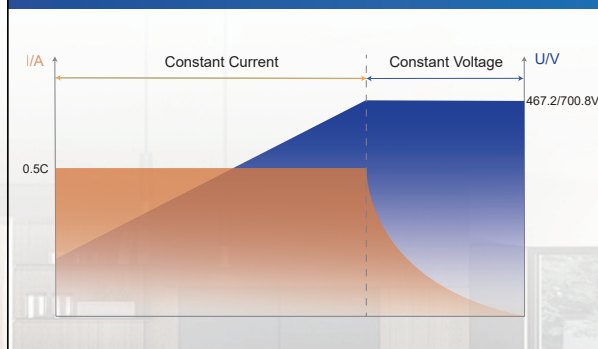
Discharge Characteristics At Various Rates



Charge & Discharge Voltage Characteristics



LiFePO4 Battery Charging Logic @0.5C



PLEASE NOTE

- ★ Lithium batteries ship under Class 9 Dangerous Goods PI 965 Section IA. Please contact your carrier company to determine their requirements for shipping. MSDS Sheets are available upon request.
- ★ Float charging is not applicable to lithium iron phosphate batteries, long-term float charging will accelerate battery aging or damage. If you have to set the float voltage for MPPT/PWM charge controller in solar system, we suggest to set it to (12V Battery)13.2V-13.6V, (24V Battery)26.4V-27.2V, (36V Battery)39.6V-40.8V, (48V Battery)52.8V-54.4V.