



All-in-one ESS Backup Battery

With an all-in-one design that includes a bi-directional inverter and MPPT system, it is very easy to transport.

It can be connected to battery power, photovoltaic power and grid to supply it with power, and can store the energy produced by photovoltaic solar energy. When there is a power outage or a high demand for electricity, the energy stored in the system can meet the energy demand and provide uninterrupted power support.

The product can help you realize energy independence.



3 ways of charging: AC/USB/Car Port, perfect for outdoor use



Supports Android and iOS system Bluetooth function



Supports parallel connection of 1-16 battery systems



Modular design to meet the needs of home energy applications

Technical Indicator

Model	A12-4800YA1	A12-4800YAA
Battery Input		
Type	LFP	
Rated Voltage	48V	
Input Voltage Range	37-60VDC	
Rated Energy	4800Wh	4800Wh
Rated Charging Current	25A	25A
Rated Discharging Current	45A	45A
Maximum discharge current	80A	80A
Battery Cycle Life	3000 times (@25°C, 1C discharge)	
AC Input		
Charging Power	1200W	1800W
Rated Voltage	110Vac	220Vac
Input Voltage Range	90-140V	180-260V
Frequency	60Hz	50Hz
Frequency Range	55-65Hz	45-55Hz
Power Factor (@max. charging power)	>0 .99	>0 .99
DC Input		
Maximum Input Power from Vehicle Charging	120W	
Maximum Input Power from Solar Charging	500W	
DC Input Voltage Range	10~53V	
DC/Solar Maximum Input Current	10A	
AC Output		
Rated AC Output Power	2000W	
Peak Power	2000W	
Rated Voltage	110Vac	220Vac
Rated Frequency	60Hz	50Hz
Maximum AC Current	28A	14A
Rated Output Current	18A	9A
Harmonic Ratio	< 1 .5%	
DC Output		
USB-A (x1)	12 .5w, 5V, 2 .5A	
QC 3 .0 (x2)	Each 28w , (5V, 9V, 12V), 2 .4A	
USB-TypeC (x2)	Each 100w , (5V, 9V, 12V, 20V), 5A	
Cigarette Lighter and DC Port Maximum Output Power	120W	
Cigarette Lighter(x1)	120w, 12V, 10A	
DC Port (x2)	120w, 12V, 10A	
Other Function		
LED Light	3W	
Dimensions of LCD Display (mm)	97*48	
Wireless Charging	10W (Optional)	
Efficiency		
Maximum Battery to AC	92.0%	93.0%
Maxmum AC to Battery	93%	
Protection	AC Output Overcurrent, AC Output Short Circuit, AC Charge Overcurrent AC Output Over/Under Voltage, AC Output Over/Under Frequency, Inverter Over Temperature AC Charge Over/Under Voltage, Battery Temperature High/Low, Battery/Under Voltage	
General Parameter		
Dimensions (L*W*Hmm)	(560*208*632) ±3	
Weight	52±2kg	
Operating Temperature	0~45°C (Charging) , -20~60°C (Discharging)	
Communication Interface	WIFI	