

● YOUR
● SMART
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BATTERY M4856-S

RESIDENTIAL SERIES

CAPACITY ►

2.9 kWh modular



Modular


Outdoor / Indoor

Safe

Long lifespan

BATTERY M4856-S



Model	M4856-S
Physical	
Battery Type	LFP (LiFePO4)
Cell Manufacturer	
System Weight	42 kg
Dimension (W x D x H)	610 x 236 x 303 mm
IP Protection	IP21 (Indoor) / IP65 (outdoor)
Warranty	5 Year Product Warranty, 10 Year Performance Warranty
Electrical	
Energy Capacity	2.9 kWh
Usable Capacity	2.6 kWh
Depth of Discharge (DoD)	90%
Nominal Voltage	51.2 V
Operating Voltage Range	48 ~ 56.3 V
Internal Resistance	≤ 30 mΩ
Cycle Life	≥ 10000
Operation	
Max. Charging Current	56 A (1C)
Max. Discharging Current	56 A (1C)
Operating Temperature Range	-10 °C ~ 50 °C*, 0 °C ~ 40 °C (1C)
Humidity	15% ~ 85%
BMS	
Modules Connection	4 ~ 8 in series
Capacity	11.5 / 14.4 / 17.2 / 20.1 / 23.0 kWh
Usable Capacity	10.3 / 12.9 / 15.5 / 18.1 / 20.7 kWh
BMU Model	HV50056
Power Consumption	< 2 W (Work), < 100 mW (Sleep)
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature
Communication	CAN and RS-485 compatible
Certification	
Transportation	UN38.3
Safety	IEC 62619 (Cell), IEC 62619 (Pack)

* When the temperature is below 0 °C or above 40 °C, the performance will be limited.



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