

**MERITSUN**<sup>®</sup>  
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# Residential Energy Storage Powerwall 2 Product Specifications



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## Product model

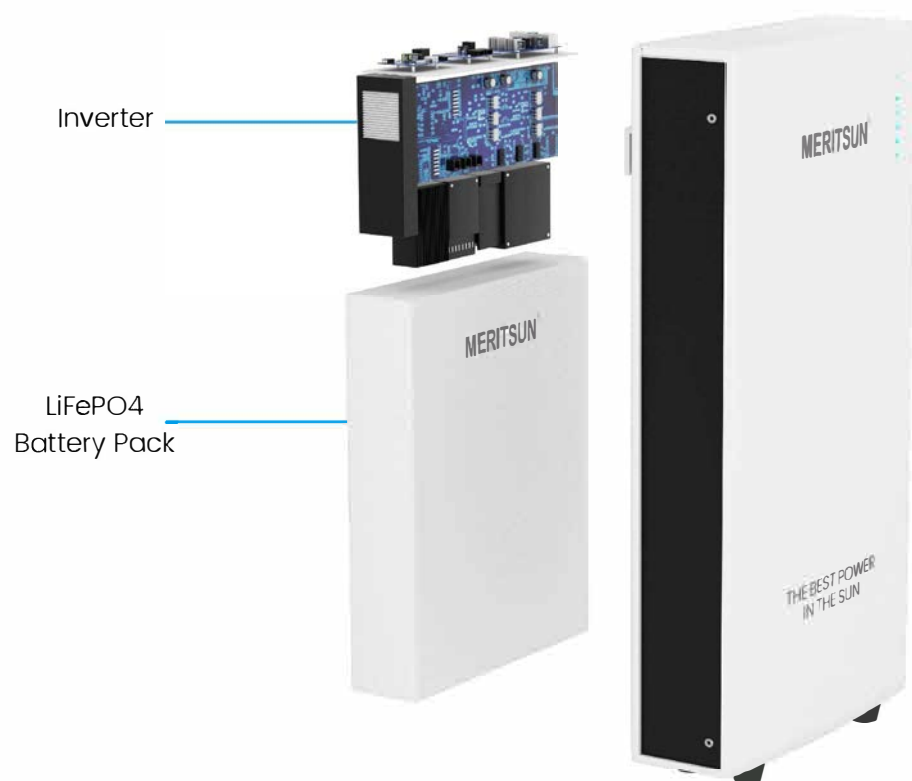


**M5000E/M3500U 5kwh**  
MeritSun Powerwall 2



**M10000E 10kwh**  
MeritSun Powerwall 2

## Excellent Internal Structure

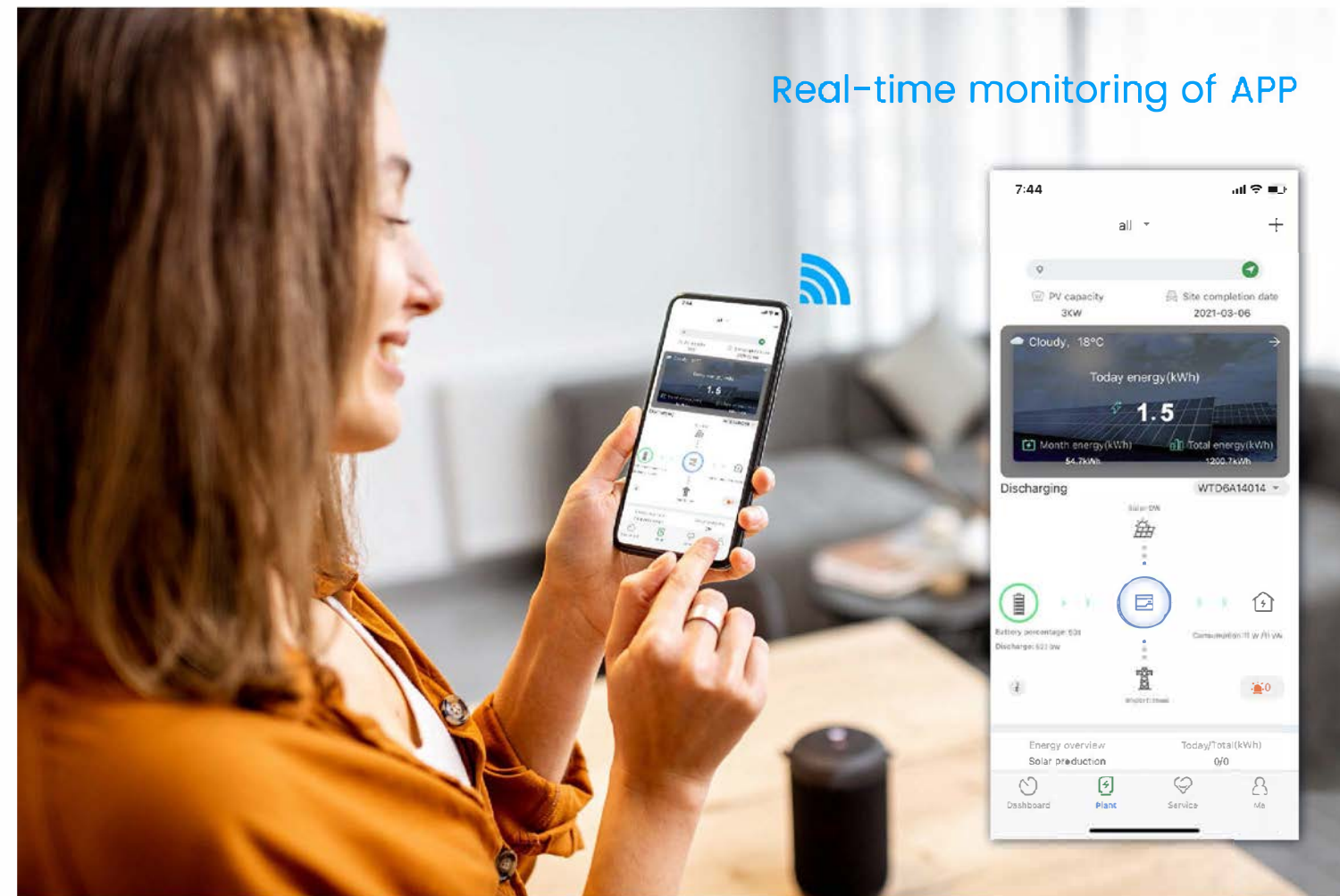


## Specification

Model	M5000E (5kw/5kwh)	M10000E (5kw/10kwh)	M3500U (3kw/5kwh)
<b>PV input</b>			
PV Max power (W)	4500	4500	3000
Max voltage (V)	145	145	145
MPPT range(V)	60-115V	60-115V	60-115
Max input current (A)	80	80	13
MPPT number	1	1	1
<b>AC Output</b>			
Rated power (W)	5000	5000	3000
Rated output voltage (V)	230	230	110/120
Grid voltage range (V)	230Vac/170-280Vac	230Vac/170-280Vac	110/125Vac
Grid frequency range(Hz)	50(45-54)/60(55-65)	50(45-54)/60(55-65)	50(45-54)/60(55-65)
Rated output current (A)	22	22	13
<b>AC Charger</b>			
Max. AC Charge Current(A)	60	60	40
AC Input Voltage(V)	230	230	110/120
Selectable Voltage Range(VAC)	170-280 (For Personal Computers); 90-280(For Home Appliances)		60-115
Transfer Time	10 ms (For Personal Computers); 20 ms (For Home Appliances)		
<b>Battery</b>			
Battery Type	LFP	LFP	LFP
Nominal Voltage (V)	48	48	48
Max Charging Power(W)	5000	5000	5000
Max Charging Current(A)	100	200	100
Max Discharging Power(W)	5000	5000	5000
Max Discharging Current(A)	100	200	100
Battery Capacity (Ah)	100	200	100
<b>System</b>			
Max efficiency [%]	98%	98%	98%
Europe efficiency [%]	97%	97%	97%
Installation	Floor mounted against the wall	Floor mounted against the wall	Floor mounted against the wall
IP Grade	IP54	IP54	IP54
Cooling	Air cooling	Air cooling	Air cooling
Display	LED/APP	LED/APP	LED/APP
Ambient humidity	10~90%,non condensation	10~90%,non condensation	5~95%,non condensation
Temperature (°C)	-25~45	-25~45	-15~60
Operation altitude(m)	0-3000	0-3000	0-3000
Dimension(WxHxD) [mm]	535*190*1200	535*190*1600	535*190*1200
Weight(kg)	68	110	68
Communication interface	RS485(Standard), CAN-BUS (Internal communication), Wifi	RS485(Standard), CAN-BUS (Internal communication), Wifi	RS485(Standard), CAN-BUS (Internal communication), Wifi



## Intelligent monitoring



Real-time monitoring of APP

### System Integration Design Easy to Install

Built in Inverter Plug & play  
Easy and fast installation and setup.

### Hands Free

Battery system switches over automatically – no effort needed.

### Off Grid / Hybrid Capable

Continuous Power During Outages  
Become self-reliant and stop being dependent on an unreliable grid.



## Successful Cases

