

# SMART STRING ENERGY STORAGE SYSTEM

Power-M-5/10/15/20/25/30



\*Only launch in Middle East & Africa & APAC



**24 Hours Power Supply**  
Fully discharge with energy optimizer



**Safe & Reliable**  
Four-layer safety protection



**High Quality Experience**  
One app for all management

# Power-M-5/10/15/20/25/30 Technical Specification

System Specifications						
Power module	iSitePower-M-MAP05A1					
Output/Input power per module	2.5 kW					
Battery module	iSitePower-M-MAB05B1					
Battery module capacity	5 kWh					
Number of power modules	1					
Number of battery modules	1	2	3	4	5	6
Battery usable capacity <sup>1</sup>	5 kWh	10 kWh	15 kWh	20 kWh	25 kWh	30 kWh
Max. output power	2.5kW	5 kW				
Communication						
Display	SOC status indicator					
Communication	CAN (for parallel communications between power modules, between battery modules and power modules, and between battery modules); WLAN/FE/4G (for connecting to the SmartPVMS)					
General Specification						
Power module dimension (W x H x D)	700 mm x 246 mm x 152 mm					
Power module weight	17 kg					
Battery module dimension (W x H x D)	700 mm x 390 mm x 158 mm					
Battery module weight	50 kg					
Base dimension (W x H x D)	700 mm x 65 mm x 147 mm (floor installation) 643 mm x 110 mm x 176 mm (wall-mounted installation)					
Base weight	1.5 kg (floor installation) 5.5 kg (wall-mounted installation)					
Installation mode	Wall-mounted/Floor-mounted					
IP rating	IP 66					
Cell technology	Lithium-iron phosphate (LiFePO4)					
AC input						
Input voltage	200/208/220/230/240 V AC					
Input current	Max. 30 A					
Frequency	50/60 Hz					
Maximum bypass input power	6 kW					
Lightning protection	Differential mode (between live and neutral): 3 kA; 8/20 $\mu$ s Common mode (between live or neutral and PE, between live/neutral pair and PE): 5 kA; 8/20 $\mu$ s					
PV input						
MPPT voltage range	90 ~ 420 V DC					
Maximum input capacity of the MPPT	5.5 kWp					
PV string quantity	2 strings					
Number of MPPT channels	1 channel					
Maximum input current for one string	12.5 A					
Maximum short circuit current per string	18 A					
Lightning protection	Common mode (between PV+/PV- pair and PE): $\pm$ 10 kA; 8/20 $\mu$ s					
AC output						
Output	Single-phase 200/208/220/230/240 V AC. The default value is 220 V AC					
Output frequency	50/60 Hz. The default value is 50 Hz.					
Maximum output current	30 A					
Output power	6 kVA/5 kW					
Power factor	0.8					
Overload capacity						
102% $\leq$ Load $\leq$ 125%	30s					
125% < Load $\leq$ 150%	10s					
>150%/short circuit	0.3s					
AC Parallel Box						
Dimensions (W * H * D)	350 mm x 450 mm x 150 mm					
Weight	Approx. 12 kg					
Input voltage	200/208/220/230/240 V AC. The default value is 220 V AC.					
Input current	Max. 90 A					
Output voltage	200/208/220/230/240 V AC. The default value is 220 V AC.					
Output current	Max. 90 A					
Cable outlet mode	Bottom in and bottom out					
Installation mode	Wall-mounted or pole-mounted installation					
IP rating	IP55					
Environmental parameters						
Operating temperature	0°C to 45°C					
Relative humidity	5% ~ 95% (RH)					
Operating altitude	0-4000 m (The operating temperature decreases by 1°C per 200 m when the altitude is 2000 m to 4000 m)					
Standards Compliance						
Certifications	IEC62920: 2017, CISPR11: 2015+A1: 2016/EN55011: 2016+A1: 2017, EN62040-2, ETSI EN 301 489-1, ETSI EN 301 489-17, IEC61000-3, IEC 62619, IEC 62109-1, IEC 62109-2, RoHS, EN 50385, RCM, UKCA, ICE 60730, UN38.3					

\*1 Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25 °C, at the beginning of life. If no PV modules are installed or the system has not detected sunlight for at least 24 hours, the minimum end-of-discharge SOC is 15%.

\*2. The weight of the battery module is subject to the actual product, with a tolerance of  $\pm$ 3%.

\*3. Refer to battery warranty letter for conditional application.

\*4. Improper storage system installation may compromise product warranty and operation safety. Please follow the user manual during the installation, use, and maintenance of the storage system.

Disclaimer: the preceding values are measured by an internal laboratory of Huawei in a specific environment. The actual values may vary with products, software versions, usage conditions, and environmental factors.

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