HUAWEI

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 [1]	5 kWh	10 kWh	15 kWh	20 kWh	25 kWh	30 kWh
Max. output power	2.5kW	5 kW	5 kW	5 kW	5 kW	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	IP66
Cell technology	Lithium-iron phosphate (LiFePO4)

AC input	
Input voltage	200/208/220/230/240 Vac
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 μs Common mode (between live or neutral and PE, between live/neutral pair and PE): 5 KA; 8/20 μs

PV input	
MPPT voltage range	90 ~ 420 Vdc
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): ±10 KA; 8/20 μs

AC output	
Output	Single-phase 200/208/220/230/240 Vac. The default value is 220 Vac
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% ≤ Load ≤ 125%	30s
125% < Load ≤ 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 Vac. The default value is 220 Vac.
Input current	Max. 90 A
Output voltage	200/208/220/230/240 Vac. The default value is 220 Vac.
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 ±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.