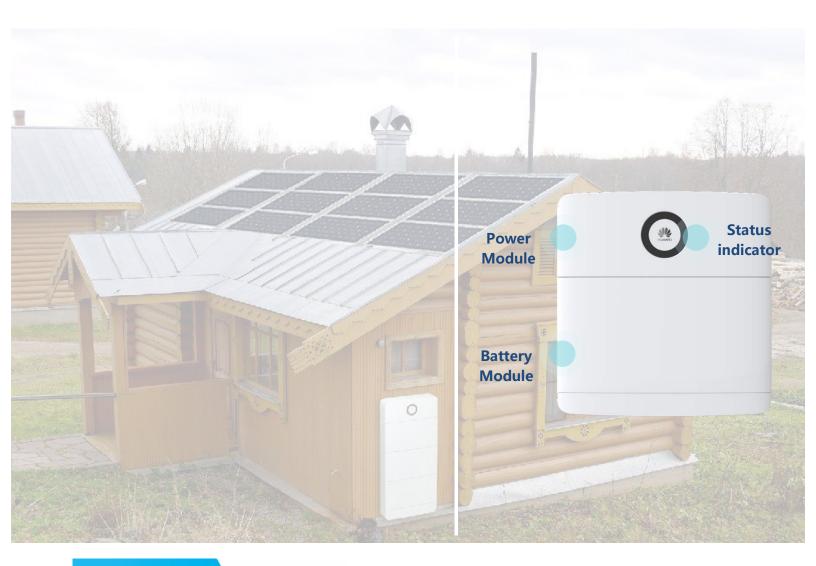
Intelligent Power Mate iSitePower-M



Introduction

iSitePower-M is a small-scale hybrid power solution. It integrates power supply, backup power, and management. It is widely used in off-grid and unreliable grid areas and provides reliable and stable backup power for residences, apartments, shops, and emergency scenarios.

iSitePower-M features a high-density design, small size, light weight, and IP65 protection level. It can be installed indoors, or on outdoors



Application

- Indoor & outdoor scenario, wall-mounted/floor-mounted
- Off-grid and unreliable grid areas, civil and commercial backup power
- Residences, apartments, shops, and emergency scenarios

Product parameters

Resic Parameters weight	Basic Parameters	Dimensions (W x H x D)	Single power module: 700 mm x 246 mm x 152 mm Single battery module: 700 mm x 390 mm x 158 mm Base (mandatory for floor installation): 700 mm x 55 mm x 147 mm Base (mandatory for wall-mounted installation): 700 mm x 118 mm x 184 mm
Degree of protection IP65		weight	Approx. 17 kg for a single power module Approx.50 kg for a single energy storage module
Input voltage system Input voltage range # 20% Input voltage range # 20% Input current Max. 30 A Frequency So/60Hz Iightning protection Differential mode: 3KA: common mode (two-wire pair PE): SKA; 8/20 µs Start-up voltage 100V DC Maximum input voltage 435V DC Maximum input voltage 345V DC Rated input voltage 345V DC Rated input voltage 345V DC Maximum input capacity of the MPPT PV string quantity 2 strings Number of MPPT channels 1 channel Maximum short circuit current 2*15A Maximum short circuit current 2*15A Maximum short circuit current 2*18A Iightning protection 10 kA common mode (two-wire pair PE), 8/20 µs Single-phase 200/208/220/230/240 VAC, 220 V AC by default Output frequency So/60 Hz. The default value is 50 Hz. AC output Maximum output current 30A Input and output power 6kVA/5kW THD \$ 3% R load Bypass Input power Maximum bypass input power 6kW Overload capacity 125% < Load \$ 150% 10s AC overload capacity 125% < Load \$ 150% 10s AC overload capacity 125% < Load \$ 150% 10s AC overload capacity 125% < Load \$ 150% 10s AC overload capacity 125% < Load \$ 150% 10s AC overload capacity 125% < Load \$ 150% 10s AC overload capacity 125% < Load \$ 150% 10s AC overload capacity 125% < Load \$ 150% 10s AC overload capacity 125% < Load \$ 150% 10s AC overload capacity 125% < Load \$ 150% 10s AC overload capacity 125% < Load \$ 150% 10s AC overload capacity 125% < Load \$ 150% 10s AC overload capacity 125% < Load \$ 150% 10s AC overload capacity 125% < Load \$ 150% 10s AC overload capacity 125% < Load \$ 150% 10s AC overload capacity 125% < Load \$ 150% 10s AC overload capacity 125% < Load \$ 150% 10s AC overload capacity 125% < Load \$ 150% 10s AC overload capacity 125% 125% 125% 125% 10s AC overload capacity 125% 125% 125% 125% 125%		Installation Mode	Wall-mounted/ground-mounted
Input voltage range = 20% Input current		Degree of protection	IP65
A C input Input current Frequency Iightning protection SixA; 8/20 µs Start-up voltage Input voltage Maximum input voltage MPPT voltage range Ac aution Maximum input capacity of the MPPT PV string quantity PV string quantity Ac aution Maximum input current Iightning protection AC output AC output Maximum output current Input and output power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input power Maximum bypass input bypass input bypass input b	AC input	Input voltage system	Single-phase 200/208/220/230/240 VAC, 220 V AC by default
Frequency lightning protection Six4; 8/20 µs Start-up voltage 100V DC Maximum input voltage 435V DC MPPT voltage ange Rated input voltage 345V DC Rated input voltage Maximum input capacity of the MPPT PV string quantity 2 strings Number of MPPT channels 1 channel Maximum input current 2*15A Maximum short circuit current 2*15A Ilightning protection 10 kA common mode (two-wire pair PE), 8/20 µs Single-phase 200/208/220/230/240 VAC, 220 V AC by default Output frequency 50/60 Hz. The default value is 50 Hz. AC output Maximum output current 30A Input and output power AC output voltage system Output power THD ≤ 3% R load Bypass input power Maximum bypass input power 6kW 102% ≤ Load ≤ 125% 305 105		Input voltage range	± 20%
Iightning protection Differential mode: 3KA; common mode (two-wire pair PE): 5KA; 8/20 µs Start-up voltage 100V DC Maximum input voltage 435V DC MPPT voltage range 90-420V DC Rated input voltage 345V DC Maximum input capacity of the MPPT PV string quantity 2 strings Number of MPPT channels 1 channel Maximum input current 2*15A Maximum short circuit current 2*18A Iightning protection 10 kA common mode (two-wire pair PE), 8/20 µs Output voltage system Single-phase 200/208/220/230/240 VAC, 220 V AC by default Output frequency 50/60 Hz. The default value is 50 Hz. Maximum output current 30A Input and output power 6kVA/5kW THD ≤ 3% R load Bypass input power Maximum bypass input power 6kW 102% ≤ Load ≤ 125% 30S overload capacity 125% < Load ≤ 150% 10s		Input current	Max. 30 A
Start-up voltage 100V DC Maximum input voltage 435V DC MPPT voltage 345V DC Rated input voltage 345V DC Rated input voltage 345V DC Maximum input capacity of the MPPT PV string quantity 2 strings Number of MPPT channels 1 channel Maximum short circuit current 2*15A Maximum short circuit current 2*18A lightning protection 10 kA common mode (two-wire pair PE), 8/20 µs Output voltage system Single-phase 200/208/220/230/240 VAC, 220 V AC by default Output frequency 50/60 Hz. The default value is 50 Hz. Maximum output current 30A Input and output power 6kVA/5kW THD \$3 % R load Bypass input power Maximum bypass input power 6kW Overload capacity 125% < Load \$125% 30S 10s		Frequency	50/60Hz
Maximum input voltage MPPT voltage range Rated input voltage Maximum input capacity of the MPPT PV input PV input PV input PV string quantity PV string quantity Number of MPPT channels Maximum input current Aximum input current Input quantity 2*15A Maximum short circuit current Input quantity 2*18A Input voltage system Output voltage system Single-phase 200/208/220/230/240 VAC, 220 V AC by default Output frequency Maximum output current 30A Input and output power Maximum bypass input power Maximum bypass input power Maximum bypass input power 102% ≤ Load ≤ 125% 30S overload capacity 125% < Load ≤ 150% 10s		lightning protection	
PV input PV input Rated input voltage Adsimum input capacity of the MPPT PV string quantity PV string quantity 2 strings Number of MPPT channels Maximum input current 2*15A Maximum short circuit current lightning protection Output voltage system Output voltage system Output frequency Folio Hz. The default value is 50 Hz. Maximum output current 30A Input and output power AC output Maximum bypass input power Maximum bypass input power Maximum bypass input power 102% ≤ Load ≤ 125% 30S overload capacity PV string quantity 155kWp 55kWp 55kWp 105k 10	PV input	Start-up voltage	100V DC
Rated input voltage Maximum input capacity of the MPPT PV string quantity 1 channel 1 channel Maximum input current 2*15A Maximum short circuit current 10 kA common mode (two-wire pair PE), 8/20 µs Single-phase 200/208/220/230/240 VAC, 220 V AC by default Output voltage system Single-phase 200/208/220/230/240 VAC, 220 V AC by default Output frequency 50/60 Hz. The default value is 50 Hz. Maximum output current 30A Input and output power 6kVA/5kW THD ≤ 3% R load Bypass input power Maximum bypass input power 6kW 102% ≤ Load ≤ 125% 30S overload capacity 125% < Load ≤ 150% 10s		Maximum input voltage	435V DC
Maximum input capacity of the MPPT PV string quantity 2 strings Number of MPPT channels 1 channel Maximum input current 2*15A Maximum short circuit current 2*18A lightning protection 10 kA common mode (two-wire pair PE), 8/20 μs Output voltage system Single-phase 200/208/220/230/240 VAC, 220 V AC by default Output frequency 50/60 Hz. The default value is 50 Hz. Maximum output current 30A Input and output power 6kVA/5kW THD ≤ 3% R load Bypass input power Maximum bypass input power 6kW 102% ≤ Load ≤ 125% 30S overload capacity 125% < Load ≤ 150% 10s		MPPT voltage range	90-420V DC
PV input MPPT PV string quantity 2 strings Number of MPPT channels 1 channel Maximum input current 2*15A Maximum short circuit current 2*18A lightning protection 10 kA common mode (two-wire pair PE), 8/20 μs Output voltage system Single-phase 200/208/220/230/240 VAC, 220 V AC by default Output frequency 50/60 Hz. The default value is 50 Hz. Maximum output current 30A Input and output power 6kVA/5kW THD ≤ 3% R load Bypass input power Maximum bypass input power 6kW 102% ≤ Load ≤ 125% 30S overload capacity 125% < Load ≤ 150% 10s		Rated input voltage	345V DC
PV string quantity 2 strings Number of MPPT channels 1 channel Maximum input current 2*15A Maximum short circuit current 2*18A lightning protection 10 kA common mode (two-wire pair PE), 8/20 μs Output voltage system Single-phase 200/208/220/230/240 VAC, 220 V AC by default Output frequency 50/60 Hz. The default value is 50 Hz. Maximum output current 30A Input and output power 6kVA/5kW THD ≤ 3% R load Bypass input power Maximum bypass input power 6kW 102% ≤ Load ≤ 125% 30S overload capacity 125% < Load ≤ 150% 10s		Maximum input capacity of the MPPT	5.5KWp
Maximum input current 2*15A Maximum short circuit current 2*18A lightning protection 10 kA common mode (two-wire pair PE), 8/20 μs Output voltage system Single-phase 200/208/220/230/240 VAC, 220 V AC by default Output frequency 50/60 Hz. The default value is 50 Hz. Maximum output current 30A Input and output power 6kVA/5kW THD ≤ 3% R load Bypass input power Maximum bypass input power 6kW 102% ≤ Load ≤ 125% 30S overload capacity 125% < Load ≤ 150% 10s		PV string quantity	2 strings
Maximum short circuit current 2*18A 10 kA common mode (two-wire pair PE), 8/20 μs Output voltage system Single-phase 200/208/220/230/240 VAC, 220 V AC by default Output frequency 50/60 Hz. The default value is 50 Hz. Maximum output current 30A Input and output power 6kVA/5kW THD ≤ 3% R load Bypass input power Maximum bypass input power 6kW overload capacity 125% < Load ≤ 150% 10s 102		Number of MPPT channels	1 channel
lightning protection 10 kA common mode (two-wire pair PE), 8/20 μs Output voltage system Single-phase 200/208/220/230/240 VAC, 220 V AC by default Output frequency 50/60 Hz. The default value is 50 Hz. Maximum output current 30A Input and output power 6kVA/5kW THD ≤ 3% R load Bypass input power Maximum bypass input power 6kW 102% ≤ Load ≤ 125% 30S overload capacity 125% < Load ≤ 150% 10s		Maximum input current	2*15A
Output voltage system Output frequency AC output Maximum output current Input and output power Bypass input power Maximum bypass input bypass i		Maximum short circuit current	2*18A
Output frequency 50/60 Hz. The default value is 50 Hz. Maximum output current 30A Input and output power 6kVA/5kW THD ≤ 3% R load Bypass input power Maximum bypass input power 6kW 102% ≤ Load ≤ 125% 30S overload capacity 125% < Load ≤ 150% 10s		lightning protection	10 kA common mode (two-wire pair PE), 8/20 μs
AC output Maximum output current Input and output power 6kVA/5kW THD ≤ 3% R load Bypass input power Maximum bypass input power 6kW 102% ≤ Load ≤ 125% 30S overload capacity 125% < Load ≤ 150% 10s	AC output	Output voltage system	Single-phase 200/208/220/230/240 VAC, 220 V AC by default
Input and output power SOA		Output frequency	50/60 Hz. The default value is 50 Hz.
THD $\leq 3\%$ R load Bypass input power Maximum bypass input power 6kW $102\% \leq \text{Load} \leq 125\%$ 30S overload capacity 125% < Load $\leq 150\%$ 10s		Maximum output current	30A
Bypass input power Maximum bypass input power 6kW 102% ≤ Load ≤ 125% 30S overload capacity 125% < Load ≤ 150% 10s		Input and output power	6kVA/5kW
102% ≤ Load ≤ 125% 30S overload capacity 125% < Load ≤ 150% 10s		THD	≤ 3% R load
overload capacity 125% < Load ≤ 150% 10s	Bypass input power	Maximum bypass input power	6kW
105	overload capacity	102% ≤ Load ≤ 125%	30S
>150%/short circuit 0.3S		125% < Load ≤ 150%	10s
		>150%/short circuit	0.3S

Specifications

Battery parameters	Output input voltage	370-480VDC
	Rated capacity ¹	5 kWh per module
	Maximum capacity	Single system scenario: max. support 6 pcs batteries, 5 kW output (5Kw@30kWh) Parallel system scenarios: max. 3 power modules can be paralleled. Each power module supports max. 3 batteries (15Kw@45kWh)
	Maximum output power	2.5 kW per module
	cycle life	6000 times @ 25°C, 80% DOD
AC parallel box	Dimensions (W x H x 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	Maximum 90A
	Output voltage	200/208/220/230/240 V AC. The default value is 220 V AC.
	Output current	Max. 90A
	Cable outlet mode	Bottom in and bottom out
	Installation Mode	Wall-mounted or pole-mounted installation
	Degree of protection	IP55
Environmental parameters	Operating temperature	0°C to 45°C (without +1120w/m^2 solar radiation)
	Transport temperature	- 40°C -+ 70°C
	Storage temperature	- 40°C -+ 70°C
	relative humidity	5%-95% (RH)
	Altitude Requirements	0~4000m (The operating temperature decreases by 1°C per 200m when the altitude is 2000 m to 4000 m.)
	Noise level	When temperature is 30°C, the noise is ≤40 dBA@1 m.

^{1.} Test conditions: 100% depth of discharge(DoD), 0.2C rate charge & discharge at $25^{\circ}C$, 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%.

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