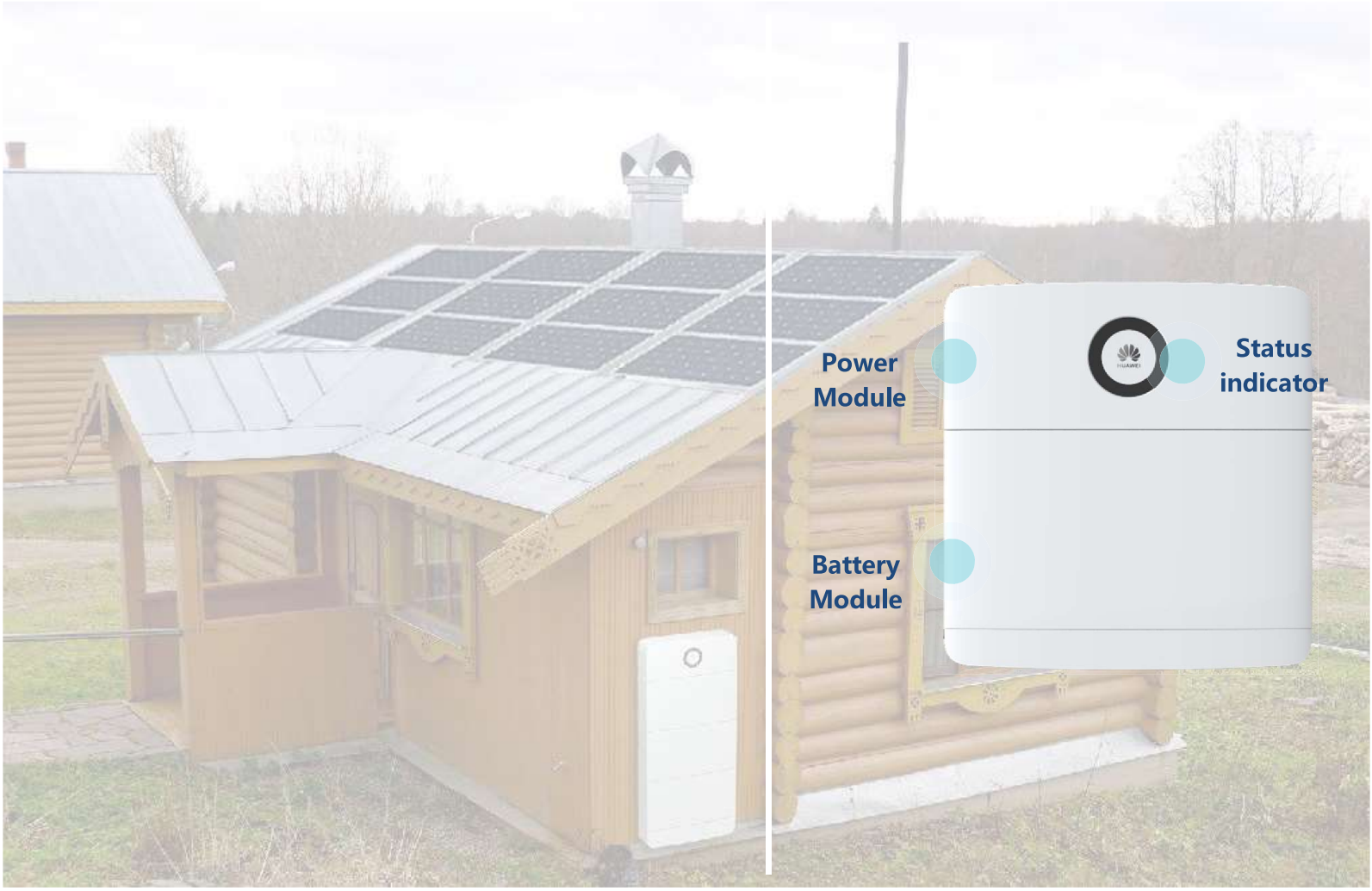
Intelligent Power Mate
iSitePower-M

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

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
	weight	Approx. 17 kg for a single power module Approx.50 kg for a single energy storage module
	Installation Mode	Wall-mounted/ground-mounted
	Degree of protection	IP65
AC input	Input voltage system	Single-phase 200/208/220/230/240 VAC, 220 V AC by default
	Input voltage range	± 20%
	Input current	Max. 30 A
	Frequency	50/60Hz
	lightning protection	Differential mode: 3KA; common mode (two-wire pair PE): 5KA; 8/20 μs
PV input	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	5.5KWp
	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
AC output	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	102% ≤ Load ≤ 125%	30S
	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°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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