

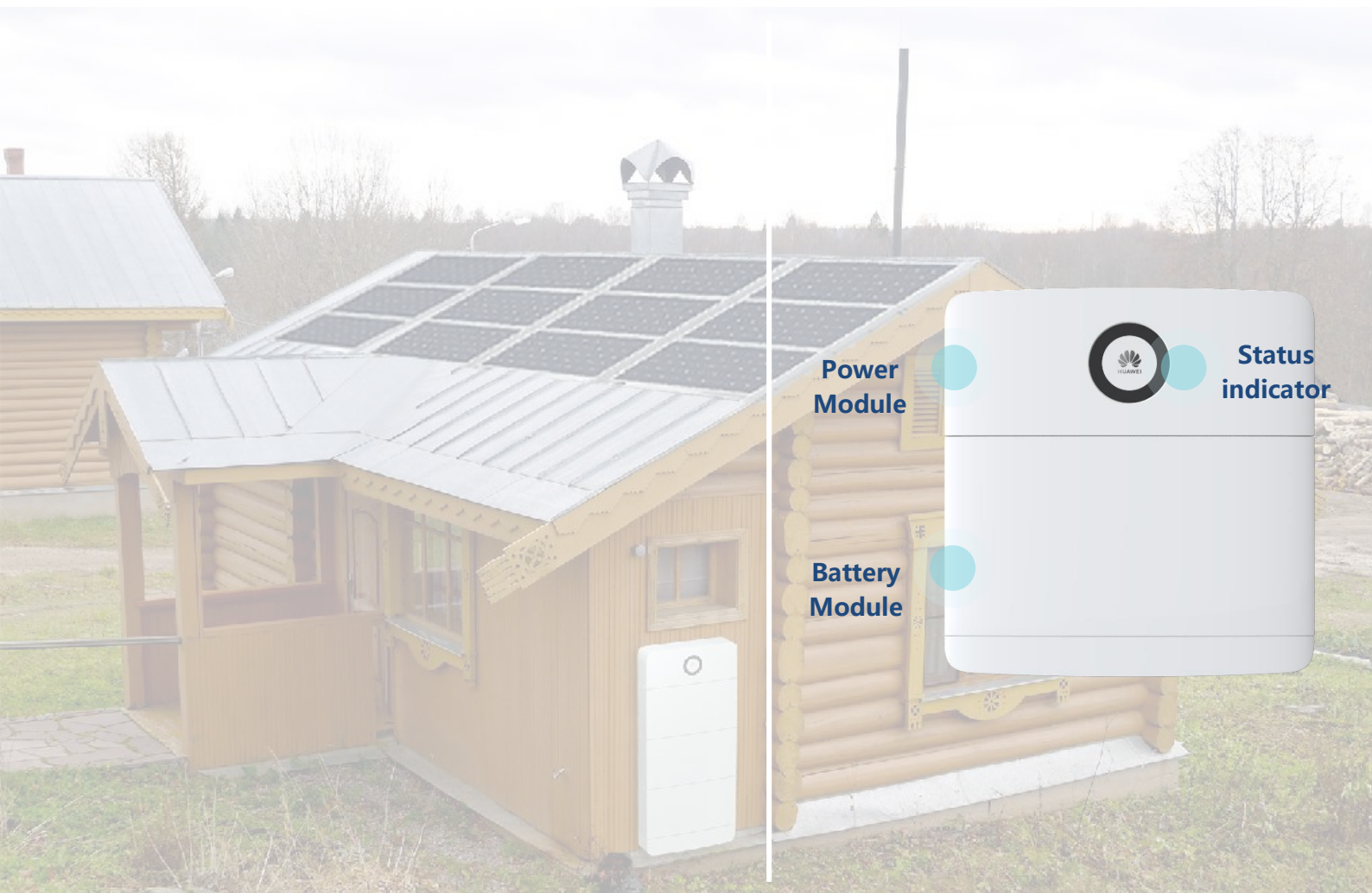
Microgrid Power Solution iPowerCube-M



Introduction

iPowerCube-M is a small-scale microgrid 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.

iPowerCube-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

Specifications

Basic Parameter	Dimensions (W x H x D)	690mm x 1480mm x 165mm@15kWh
	Weight	<ul style="list-style-type: none"> • 16kg per power module, 50kg per battery module • 166kg@15kWh
	Installation Mode	Indoor, outdoor
	Protection Level	IP65
AC Input	Input Voltage	Single-phase 90~300 VAC
	Input Current	Max: 30A
	Frequency	50 Hz/60Hz
	Surge Protection	3kVA/5kVA, 8/20μs
PV Input	Start-up Voltage	100VDC
	Rated Input Voltage	340V
	MPPT Voltage	90~435V DC
	Max. Input Current	2 x 15A
	Recommended PV Power	5000Wp
	Numbers of PV Strings	2 strings
	Number of MPPT Routes	1 route
	Max. Input Current per Strings	15A
	Surge Protection	3kVA/5kVA, 8/20μs
AC Output (off-grid)	Output Voltage	Single-phase 200~230 VAC
	Max. Output Current	25.8A
	Output Power	6kVA, 5kW
	Power Factor	0.8
	THD Harmonics	≤3% @ rated output
	Surge Protection	3kVA/5kVA, 8/20μs
Battery Parameter	Voltage	350-435VDC
	Rated Capacity	5kWh per module
	Actual Capacity	5KWh (100%DOD) per module
	Max. Capacity	15kWh, support 3 modules connection in parallel
	Max. Output Power	2.5kW per module, support max. 5kW per module
	Cycle Life	6000 cycles @ 25°C, 80%DOD

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