

PV Hybrid & Backup C&I ENERGY STORAGE SYSTEM

All-in-One **135kW/215kWh** +2*30kW(MPPT)

HC-PP135E215FS



FEATURE

Ultimate Integration

- BMS, PCS, EMS, HV Box integrated in one compact module
- Smaller space, less conversion loss, faster response
- Unified system control with 4-core ARM A9 CPU

Enhanced Efficiency

- Two 30kW PV inverters with DC-coupled MPPT enhance solar generation efficiency and prevent AC voltage mismatches

Smart Energy Management

- Time-of-Use arbitrage, demand control, reverse power protection, grid & remote scheduling, and more
- Remote monitoring and control via PC and mobile app

Diverse Application

- Ideal for office buildings, industrial parks and other commercial facilities
- 250kW STS integrated enabling seamless on/off-grid mode switch and power backup

SPECIFICATION

Item			Description
DC side	Cell type		LFP (3.2V/280Ah)
	Nominal voltage range		672V-864V
	Nominal capacity		215kWh
AC side	Nominal power/ voltage/ frequency		135kW / 380VAC / 50Hz
	Nominal voltage range		375~415VAC
	Max current		213A
	Total harmonic current distortion		≤5%
MPPT (PV inverter)	Solar panel nominal voltage input		700VDC
	Solar panel input voltage range		300VDC~825VDC
	Solar panel input current range		0~50A
	Max output power		30kW
	Conversion efficiency (at full load)		>95.5%
STS (on/off-grid static transfer switch)	Nominal grid voltage/ frequency/ wiring		380VAC/50Hz/3-phase 3-wire
	Nominal power/ max current		250kW / 334A
	Switch time		≤5ms
System parameter	Electrical parameter	Nominal charging/ discharging power	<0.62P
		Communication protocols	CAN, TCP, RS485, 4G
		EMS strategy	Peak load shaving, demand control, reverse power protection, active & reactive power control, grid/remote scheduling, DC-coupled MPPT, on/off-grid mode switch
	Environmental parameter	Temperature control method	Air-cooling
		Fire suppression system	Aerosol, water fire suppression system, composite detector, sound alarms, explosion venting, and accident ventilation
		Protection level	IP54
		Noise	≤75dB
		Operating altitude	≤2000m (derating above 2000m)
		Operating temperature	-20°C ~ 50°C (derating above 45°C)
		Operating humidity range	0-95% (non-condensing)
		Weight	<3000kg
		Dimension (W*H*D)	1630mm*2200mm*1300mm

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