

EnerMax-C&I

Distributed Power Control Cabinet



PRODUCT DESCRIPTION

EnerMax-C&I distributed power control cabinet integrates the hybrid inverter, current cabinet DC confluence, battery management system (BMS) master control, display screen, local energy management system (EMS), power distribution module, access control system, and water immersion system into an independent outdoor cabinet. The product allows for multiple channels of PV and battery input, on- and off-grid operation, as well as indoor and outdoor use. The standard unitized design makes the product able to be flexibly configured according to actual application scenarios.



APPLICATION SCENARIOS

- User-side PV energy storage scenario
- PV energy storage scenario at the end of power distribution networks
- Micro grid or off-grid power supply scenarios



PRODUCT FEATURES

- Support of simultaneous input from batteries and PV
- Allow for a wide voltage range on DC side
- Support of multi-channel PV/battery input
- Support of the function of MPPT
- Seamless switching between on-grid and off-grid
- Equipped with the function of PQ, VF and VSG, etc.
- Strong environmental adaptability with IP54 protection level
- Support of local and remote monitoring



Model		CP50KP-5DC	CP100KP-5DC	CP150KP-5DC
PV Side	Max. PV input Voltage [V]		1000	
	Max. PV Input Power [kW]	55	110	165
	MPPT Voltage Range [V]		250~850	
Battery Side	Voltage Range [V]		400~850	
	Max. Parallel Number		5	
	Max. Charge Power [kW]	55	110	165
AC Side (On-Grid)	Rated Power [kW]	50	100	150
	Rated Voltage [V]		400	
	Voltage Range		-20%~+15%	
	Rated Frequency [Hz]		50/60	
	Frequency Range [Hz]		Rated frequency ± 5	
	Power Factor		> 0.99	
	Total Current Harmonic Distortion		$\leq 3\%$ (rated power)	
AC Side (Off-Grid)	Rated Power [kW]	50	100	150
	Rated Voltage [V]		400	
	Rated Frequency [Hz]		50/60	
	Frequency Range [Hz]		Rated frequency ± 0.2	
	Input Voltage Distortion		$\leq 3\%$ (linear load)	
	Overload Capacity		$\leq 105\%$ (continuous), 120% (1min)	
	Unbalanced Load Capacity		100%	
System Parameter	AC Input Mode		3P+N+PE	
	Dimensions [W*D*H, mm]	1700*1050*2300	1900*1200*2300	1900*1200*2300
	Weight [kg]	~850	~1250	~1500
	Isolation		Isolation transformer	
	Cooling		Smart temperature control	
	IP Grade		IP54	
	Relative Humidity		5%~95%	
	Altitude [m]		3000 (derating when altitude > 3000)	
	Communication		Ethernet, RS485, CAN, and 4G	
	Working Temperature [°C]		-20 to +60	
	User Interface		10-inch touch screen	

Note: The above information may subject to update without prior notice.