CS5000-X-P(on off-grid hybrid series)

昆宇电源
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1.Product introduction

CS5000-X-P stack energy storage power supply is a high-tech product with multiple application scenarios developed by Shenzhen Coslight. With its internal integration of lithium battery pack, and off-grid hybrid inverter and energy management unit, the system has a four-level protection strategy, can support 4 battery modules in parallel use, stack installation mode, can be connected to photovoltaic, power grid, load work. The charging mode is selected according to the application scenario, simplifying installation and O&M. It is suitable for household emergency backup (power shortage, power outage and natural disasters such as typhoons and earthquakes), peak-valley electricity price arbitrage, self-generation self-use and other scenarios, and has outstanding advantages in the application field of household energy storage.



2.Product topology



3.Product features

· Home style, elegant and beautiful;
· Single-phase European standard and single-phase American standard design, supporting multi-system power grid voltage standards;
· Multiple working modes (PV priority, mains priority, inverter priority);
· Built-in ISO/Android.App monitoring;
· Easy installation and maintenance, customized design to meet different customers,
· Individual battery 5.12kWh, expandable to 20.48KWh
· Multiple protection and alarm system, safe and reliable;

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4.Parameters

Parameters/model		CS5000-5-P	CS5000-10-P	CS5000-15-P	CS5000-20-P
Inverter output	Rated output power W	5500			
	Max peak power VA	11000			
	Rated output voltage V	230 single phase（200/208/220/240 settable）±5%			
	Frequency HZ	50/60±0.3			
	Load capacity	4HP			
	Switching time ms	10			
PV input parameters	MPPT number	2			
	PV OCV V	500/500			
	Max input power /W	4000+4000			
	MPPT voltage range V	120-450			
	Max PV input current A	16/16			
	Max short circuit current A	27/27			
Mains/generator input	Input voltage range	90-280			
	Input frequency range HZ	50/60			
	Max bypass current A	40			
Battery parameters	Battery type	LFP			
	Battery type rated voltage V	51.2			
	Voltage range V	46.4～58.4			
	Energy kwh	5.12	10.24	15.36	20.48
	Max charge discharge rate	0.5C/1C			
Working condition	Charge temperature range	5～55℃			
	Discharge temperature range	-15℃～60℃			
	Humidity	5%～95%			
	Heat dissipation method	Intelligent air cooling +cooling fin			
	Weight KG	107	157	207	257
	Size （W*D*H） mm	650*440*445	650*440*585	650*440*725	650*440*865
	Communication method	WIFI/RS485			