شرکت آوای ایمن توان

Power converter
Single phase - Sine wave
Series HTCO7000(8000-12000W)



Built for energy systems where flexibility meets performance, the HTCO7000(8000-12000W) brings advanced hybrid power management into a compact single-phase platform.

while Grid-Tied operation,Peak Shaving, and integrated ATS enable seamless control across multiple power sources.Its intelligent dual-output architecture prioritizes essential loads when grid power is unavailable or battery capacity is limited.

With parallel operation of up to 9 units, system capacity can scale to 108 kW as energy demands grow. Supporting lithium, lead-acid, and gel batteries, the SPE series combines adaptable energy storage with WiFi/4G remote monitoring and programmable charging and output schedules—turning complex power management into a smarter, more responsive energy system.

Specifications

- Dual MPP trackers
- Two AC input terminals with integrated transfer switch
- Featuring grid-tied function for peak shaving
- Support parallel operation for capacity expansion up to 108kW
- Dual outputs for smart load management

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MODEL		HTCO 8000	HTCO 10000	HTCO 12000
Input data (DC)	(Max. recommended PV power (for module STC))	10000W	12500W	15000W
	Max. DC voltage	550V		
	Start voltage	120V		
	MPP voltage range	60V~480V		
	No. of MPP trackers	2		
	No. of PV strings per MPP tracker	1		
	Max. input current per MPP tracker	27A		
	Max. short-circuit current per MPP trackers	34A		
Output data (AC)	AC nominal power	8000W	10000W	12000W
	Max. AC apparent power	8000VA	10000VA	12000VA
	Nominal AC voltage	230V		
	AC grid frequency	50/60Hz		
	Output current	34.8A	43.5A	52.2A
	Adjustable power factor	0.8leading...0.8lagging		
	THDi	< 5%		
	Max. conversion efficiency (PV/AC)	96.5%		
	European efficiency @ nominal (PV/AC)	95.5%		
Battery data (DC)	Nominal DC voltage	48V		
	Max charging and discharging current	190A/200A	220A/240A	250A/280A
	Type of battery	Lithium/Lead-acid		
Backup power(AC)	AC nominal output power	8000W	10000W	12000W
	Nominal AC output voltage	230V		
	Nominal AC output frequency	50/60Hz		
	Switch time	<20ms@Single / <30ms@Parallel		
Efficiency	Peak. efficiency	96.5%		
	European efficiency	95.5%		
General data	Dimensions (W / H / D)	550/465/150mm		
	Weight	21.5kg		
	Operating temperature range	-10°C ~ +50°C		
	Noise emission (typical)	< 75dB		
	Self-consumption	< 75W		
	Topology	Transformerless		
	Cooling	DC fan		
	Protection degree	IP20		
	Relative humidity	5%~95% non-condensing		
	Altitude	< 2000m		
	Communication	WiFi/4G		

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