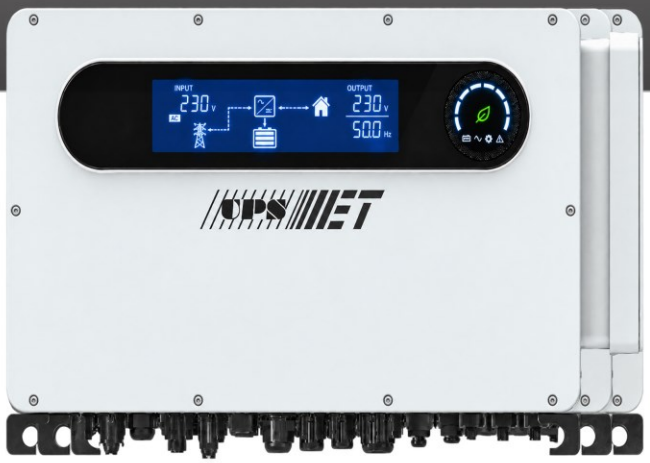
شرکت آوای ایمن توان

Power converter
Three phases
Series HTCO7000(150KW)



HTCO 150 kW | Powering a Smarter Solar Future

Designed for demanding commercial and industrial applications, the HTCO 150 kW combines high conversion efficiency, intelligent monitoring, and robust protection in an advanced grid-tied solar inverter.

With a maximum efficiency of 98.8%, 10 independent MPPT trackers, and support for DC voltages up to 1100 V, it maximizes solar energy utilization while providing greater flexibility in system design.

Intelligent I/V scanning and advanced string monitoring enable faster fault detection and simplified maintenance. Engineered with IP66 protection, Type II AC/DC surge protection, and intelligent air cooling, the HTCO 150 kW delivers a reliable solution for high-performance solar power generation. High Efficiency. Intelligent Control. Reliable Solar Performance.

Specifications

- 10 MPPTs fusefree design
- Max. string current up to 22.5A
- Smart I/V scan and diagnosis
- Intelligent string monitoring
- AC&DC type II SPD
- IP66 protection

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Power converter
Three phases
Series HTCO7000(150Kw)

MODEL		HTCO 150KW
Input data (DC)	Max. recommended PV power (for module STC)	225000W
	Max. DC voltage	1100V
	Start voltage	195V
	Nominal voltage	600V
	MPP voltage range	180V–1000V
	No. of MPP trackers	10
	No. of PV strings per MPP tracker	6*2+4*3
	Max. input current per MPP tracker	45A
	Max. short-circuit current per MPP tracker	56.5A
Output data (AC)	AC nominal power	150000W
	Max. AC apparent power	165000VA
	Nominal AC voltage (range*)	220V/380V, 230V/400V (340–440V)
	AC grid frequency (range*)	50/60 Hz (45–55Hz / 55–65Hz)
	Max. output current	250.7A@380V; 238.2A@400V
	Adjustable power factor	0.8leading ... 0.8lagging
	THDi	<3%
	AC grid connection type	3W/N/PE
Efficiency	Max. efficiency	98.8%
	European efficiency	98.4%
	MPPT efficiency	99.9%
Protection devices	DC reverse polarity protection	Yes
	DC switch	Yes
	AC/DC surge protection	Type II / Type II
	Insulation resistance monitoring	Yes
	AC short-circuit protection	Yes
	Ground fault monitoring	Yes
	String detection	Yes
	Anti-PID function	Optional
	Arc fault detection (AFCI)	Optional
General data	Protection devices	1075/640/367mm
	Weight	93kg
	Operating temperature range	–30°C ... +60°C
	Nighttime power consumption	< 1W
	Topology	Transformerless
	Cooling	Smart air cooling
	Protection degree	IP66
	Relative humidity	0~100%
	Altitude	4000m
	DC connection	H4/MC4 (Max.6mm²)
	AC connection	OT Terminal (Max. 240mm²)
	Display	LED/WIFI+APP
	Interfaces: RS485/USB/PLC/GPRS/4G/WiFi	Yes/Yes/Optional/Optional/Optional/Optional
	Warranty: 5 years / 10 years	Yes/Optional
	Certifications	CE, IEC62116, IEC61727
	Note	The AC voltage range and frequency range may vary depending on specific country grid standard.
	Note	All specifications are subject to change without notice.

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