شرکت آوای ایمن توان

Power Converter
Single phase - Sine wave
Series HTCO7000 (6000W)



The 6,000 W single-phase power converter combines advanced power management with dependable backup functionality. Delivering a rated output of 6,000 W, peak power of up to 12,000 VA, and peak efficiency of 93%, it provides stable pure sine wave power for a wide range of applications.

Operating on a 48 V DC battery system, the unit supports lithium and lead-acid batteries. Its dual independent MPPT controllers and support for up to 8,000 W of DC input power enable flexible system configuration and efficient energy utilization.With parallel operation of up to six units, system capacity can be expanded to meet increasing power demands. A typical transfer time of 10 ms, with a maximum specified transfer time of 20 ms, supports rapid switching between power sources.

The unit features plug-and-play DC input terminals, a built-in dust-proof kit, and two AC inputs for grid and generator connections with an integrated Automatic Transfer Switch (ATS).

An integrated 80 A AC charger, selectable AC input voltage ranges, and automatic 50/60 Hz frequency detection provide additional operating flexibility. Designed for dependable performance, the system supports installations at altitudes below 2,000 m, subject to the manufacturer's operating conditions.

Specifications

- Plug-and-Play terminal for PV port
- Configurable grid or solar input priority
- Parallel for scalability
- Dust-proof filter for harsh environment
- Two AC input terminals with integrated transfer switch Growatt

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MODEL		HTCO 6000 Plus
Battery	Battery Voltage	48VDC
	Battery Type	Lithium / Lead-acid
Inverter Output	Rated Power	6000VA / 6000W
	Parallel Capability	Yes, maximum 6 units
	AC Voltage Regulation (Battery Mode)	230VAC ± 5% @ 50/60Hz
	Surge Power	12000VA
	Peak Efficiency	93%
	Waveform	Pure sine wave
	Transfer Time	10ms typical, 20ms max
PV Charger	Maximum PV Array Power	8000W
	MPPT Operating Range	120VDC – 450VDC
	Independent MPP Trackers / Strings	2/1
	Max. Input Current per MPP Tracker	16A
	Maximum PV Open-Circuit Voltage	500VDC
	Maximum Solar Charge Current	100A
AC Charger	AC Charge Current	80A
	AC Input Voltage	230VAC
	Frequency Range	50Hz / 60Hz (Auto sensing)
	Selectable Voltage Range	170–280VAC (PC) / 90–280VAC (Home Appliances)
Physical	Protection Degree	IP20
	Dimensions (W/H/D)	460 × 395 × 132 mm
	Net Weight	13.5 kg
Operating Environment	Operating Temperature	0°C – 55°C
	Storage Temperature	-15°C – 60°C
	Humidity	5%–95% RH, non-condensing
	Altitude	< 2000 m

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