

UPS Online Double Conversion Transformer less Three-phase Series HT5000 (10 ~ 60) KVA

The HT 5000 Series UPS utilizes online double conversion technology and digital DSP control, ensuring compatibility with a wide range of loads. It is primarily designed for applications such as medical equipment, data centers, and other critical environments. The advanced DSP technology enables rapid detection and correction of power supply issues, ensuring connected equipment remains online with high reliability.

Its sophisticated battery charging system is engineered to support extended backup times. The system recharges batteries completely in the shortest time possible while preventing excessive internal temperature rise, thereby significantly extending the overall service life of the battery bank.



Specifications

- High frequency on-line double conversion technology 3 phase
- Advanced dual-core DSP control technology and 3-level technology
- Active power factor correction (APFC), input power factor up to 0.99 Output power factor 0.9
- Adjustable in three modes: 3/3, 1/3, and 1/1 phase
- Output power factor 1.0
- System efficiency is improved to 96%, energy saving rate is doubled
- Dual input design, supporting independent bypass
- Wide input voltage range 132V~275V in single phase mode and 228V~478V in three phase mode
- 50/ 60 Hz auto-sensing frequency and 50/ 60Hz frequency conversion mode
- Work efficiency up to 98% in ECO mode
- Fan speed varies intelligently with load, reducing noise and extending its service life
- Flexible battery configuration setting, selectable battery numbers: 32~ 40 pcs
- Ability to switch on the UPS by battery in the absence of mains power (Cold start)
- 5 inches LCD colorful touch screen, friendly human & machine interface
- Powerful background software for parameters configuration and online upgrade
- Standard RS232, USB, RS485, EPO, Dry contacts, Parallel port
- Effective hardware and software protection, robust self-diagnosis function, abundant event log for future check
- Optional SNMP card, WI-FI card, GPRS card, SMS alarms
- Advanced battery management (ABM), automatic floating/equalizing charge control, charger dormancy control

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		HT 5010	HT 5015	HT 5020	HT 5030	HT 5040	HT 5060
MODEL	KVA	10	15	20	30	40	60
	KW	10	15	20	30	40	60
INPUT	Phase	3:3/3:1/1:1					
	Rated voltage	220/230/240Vac (L-N) 380/400/415Vac (3Φ + N + PE)					
	Voltage range	132~275Vac (L-N) 228~478Vac (3Φ + N + PE)					
	Rated frequency	50/60Hz					
	Frequency range	40~70 Hz					
	Power factor	>0.99					
	Bypass voltage range	Selectable, default -20%~+15% Up limited: +10%, +15%, +20%, +25%; Down limited: -10%, -15%, -20%, -30%, -40%					
	Bypass frequency range	Selectable, ±1Hz, ±3Hz, ±5Hz					
	Input current THDi	<1%(linear load), <3% (nonlinear load)					
	Bypass overload	125%: long term operation; 125%~130%: 10min; 130%~150%: 1min; 150%~400%: 1s; >400%, less than 200ms					
OUTPUT	Rated voltage	220/230/240Vac (L-N) 380/400/415Vac (3Φ + N + PE)					
	Voltage precision	±1% (linear load)					
	Frequency	Synchronized with utility in mains mode, 50/60Hz±0.1% in battery mode					
	Waveform	Sinusoidal					
	Power factor	1					
	Total harmonic distortion (THDv)	<1% (full linear load); <3% (full non-linear load according to IEC/EN62040-3)					
	Crest factor	3:1					
	Overload	<110%, 60min; 110%~125%,10min; 125%~150%,1min; >150%, 200ms					
BATTERIES	DC voltage	Long time model: ±240VDC(selectable, 32-40pcs)					
	Charging current	10A max.				15A max.	20A max.
	Charger voltage precision	1%					
SYSTEM	Display	5 inch touch screen					
	Efficiency	95% max.				96% max.	
	Transfer time	0ms					
	Max. number of parallel connections	4					
	Interface	Standard: RS232, RS485, USB, Battery cold start Option: Programmable dry contact, SNMP, Parallel kit					
OTHERS	Operating temperature	0℃ ~ 40℃					
	Storage temperature	-40℃~70 ℃					
	Relative humidity	0 ~ 95% (non condensing)					
	Noise level at 1m	58dB max.				62dB max.	
	Altitude	<1000m, load derated 1% per 100m from 1000 ~ 2000m					
PHYSICAL	Dimensions(W×D×H)(mm)	250x720x560			250x840x650	250x720x560	250x790x560
	Packaged dimensions (W×D×H)(mm)	350x800x718			350x980x810	350x800x718	350x850x818
	Net weight (kg)	31	33		42		48
	Gross weight (kg)	40	42		52		58