

UPS Online Double Conversion Transformer Base Double IGBT Series HT5000 IG (80~500 KVA)3/3

UPS Online with double IGBT-based double conversion transformer (UPS Online Transformer Based Double IGBT) with fully isolated input and output and equipped with IGBT at the input (Rectifier) and at the output (Inverter) with digital control (DSP) with very low output harmonics (PWM) is suitable for sensitive and important equipment.

The UPS HT 5000 IG series is designed based on a "transformer". The isolation transformer is very suitable for isolating the input and output and protects the consumer device against any noise, fluctuations, and power surges in the city.



Specifications

- Online Double Conversion Transformer Based Topology, accept Dual-Mains Input
- use of a IGBT Rectifier & Inverter eliminates the use of oversized input feeders
- Output isolation transformer using winding makes strong capability with unbalanced loads is produced to comply with Standards for supplying critical loads
- DSP Technology Guarantees High Reliability
- Intelligent Battery Management to Prolong Battery Life Cycle
- Output power factor 0.9
- Input power factor > 0.99, input THDi ≤ 3%, output THDV ≤ 5%
- 7 Inches LCD touch screen, friendly human & machine interface, statistics, alarm history and an active mimic screen
- With emergency shutdown (EPO and ECO) button interface
- N+X redundancy parallel up to 6 units (optional)
- Generator compatible
- Redundant Fan Design and Independent Ventilation Enhances Durable Operation Under Harsh Environment
- Intelligent self-diagnosing function, superior failure protection, large capability of history records storage
- Adjustable Battery Numbers (48 to 50 pieces)

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MODEL		HT 5800 IG	HT 51000 IG	HT 51200 IG	HT 51600 IG	HT 52000 IG	HT 52500 IG	HT 53000 IG	HT 54000 IG	HT 55000 IG
POWER	KVA	80	100	120	160	200	250	300	400	500
	KW	72	90	108	144	180	225	270	360	450
INPUT	Rated voltage	380V / 400V / 415V _ Three phase + N +PE								
	Voltage range	346 V ~ 456 V (full load) 304 V ~ 346 V (power derating 10%)								
	Rated frequency	50/60Hz								
	Frequency range	50 / 60 Hz ± 5Hz								
	Power factor	≥ 0.99								
	Current distortion	THDI ≤ 3%								
	Rectifier delay start	10s (1 ~ 300 settable)								
	Bypass voltage range	± 20 % (settable)								
OUTPUT	Rated voltage	380 V / 400 V / 415 V _ Three phase + N +PE								
	Voltage regulation	± 1 %								
	Frequency	50 / 60 Hz ± 0.1 % in battery mode								
	power factor	0.9								
	Crest factor	3: 1								
	Total harmonic distortion	THDV ≤ 2 % (linear load) ; ≤ 5 % (non-linear load)								
	Transfer time	0 ms								
	Inverter overload capability	105 % ~ 110 % for 60 minutes; 110 % ~ 125 % for 10 minutes;								
BATTERIES	DC voltage	Lead acid battery: 600Vdc Lithium iron phosphate battery: 614.4Vdc								
	Number of batteries	Lead acid battery: 12Vx50pcs (48~50pcs settable) Lead acid battery: 2Vx300pcs (288~300pcs settable) Lithium iron phosphate battery: 3.2Vx192pcs (192/208pcs settable)								
	Charging current	Charging rate(settable)×battery capacity(settable)×number of battery groups(settable)								
	Smart active efficiency	Line mode ≥92%, ECO mode ≥96%			Line mode ≥93%, ECO mode ≥97%				Line mode ≥94%, ECO mode ≥98%	
SYSTEM	Parallel numbers	MAX . 6								
	Protections	Short-circuit , overload , overtemperature , overvoltage , undervoltage , battery low voltage and fan failure								
	communications	Standard configuration : RS232 , RS485 ,RJ45, USB, dry contacts								
	Optional configuration	SNMP card, temperature compensation , SMS alarms								
	Display	7 inches LCD touch screen								
OTHERS	Operating temperature Storage	0 ~ 40°C / - 25°C ~ + 55°C (without battery)								
	Relative humidity	0% ~ 95% (non - condensing)								
	Altitude	≤ 1000 m. Above 1000 m, derating 1% for each additional 100 m								
	IP rating	IP 20								
PHYSICAL	Noise level at 1m	< 65 dB							< 70 dB	
	Dimensions (WxDxH)(mm)	800 x 800 x 1800			800x860 x1700		1210 x 860 x 1950		2380 x 860 x1950	
	Packaged dimensions (W x D x H) (m m)	900 x 900 x 2050			900 x 1000 x1950		1300 x 1000 x 2200		1300x1000 x2200(x2)	
	Net weight (kg)	580	630	680	790	1135	1275	1355	2300	
	Gross weight(kg)	630	680	730	840	1200	1340	1420	2410	