

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

Ups series HT5000IG on-line Double Conversion technology for true isolation between input and output. Availability is achieved through zero transfer time for critical loads. UPS is a highly reliable and flexible. features a digitally controlled IGBT input rectifier and output inverter an intelligent low harmonic pulse-width modulation (PWM) output, state of the art electronic battery isolation circuitry, and an easy to navigate local touch screen interface .

There are two main benefits of a transformer - based ups series HT5000IG Firstly it is generally accepted that they are more robust there are less points of failure . Secondly, the transformer provides galvanic isolation, a separation of the input and output supplies, which protects the load from any spikes, surges, or electrical noise.



Specifications

- Online Double Conversion mode with an output power factor of 0.9 providing 12% more active power compare to UPS with a power factor of 0.8
- High input power factor and use of a IGBT Rectifier eliminates the use of oversized input feeders
- Input power factor > 0.99, input THDi ≤ 3%, output THDV ≤ 5%
- Large display panel provides metering, statistics, alarm history and an active mimic screen
- With emergency shutdown (EPO) button interface
- Dynamic battery management screen optimizes battery function to lengthen service life and allow cold restart of the UPS
- Output isolation transformer using winding makes strong capability with unbalanced loads produced to comply with Standards for supplying critical loads
- N+X redundancy parallel up to 6 units (optional)
- Generator compatible



MODEL		HT 5800 IG	HT 51000 IG	HT 51200 IG	HT 51600 IG	HT 52000 IG	HT 53000 IG	HT 55000 IG
POWER	KVA	80	100	120	160	200	300	500
	KW	72	90	108	144	180	270	450
INPUT	Rated voltage	380V / 400V / 415V _ Three phase + N						
	Voltage range	346 V ~ 456 V (full load) 304 V ~ 346 V (power derating 10%)						
	Frequency range	50 / 60 Hz ± 5Hz						
	Power factor	≥ 0.99 @ Full load						
	Current distortion	THDI ≤ 3% @ 100% Linear load						
	Rectifier delay start	10s (1 ~ 300 settable)						
	Bypass voltage range	± 20 % (settable)						
OUTPUT	Rated voltage	380 V / 400 V / 415 V _ Three phase + N						
	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	600 Vdc (support 576 Vdc / 588 Vdc / 612 Vdc / 624 Vdc) @ 50 pcs 12V (support 48 / 49 / 51/52 pcs)						
	Charging current	Charging rate x battery capacity x number of battery						
SYSTEM	Smart active efficiency	Line mode ≥ 93 % , ECO mode ≥ 98 % , battery mode ≥ 93 %						
	Parallel numbers	MAX . 6						
	Protections	Short-circuit , overload , overtemperature , overvoltage , undervoltage , battery low voltage and fan failure						
	communications	Standard configuration : RS232 , RS485 , dry contacts						
	Optional configuration	SNMP card, temperature compensation , SMS alarms						
	Display	5.7 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						
	Noise level at 1m	< 65 dB						< 70 dB
PHYSICAL	Dimensions (W x D x H) (m m)	800 x 800 x 1800			800 x 860 x 1700	1210 x 860 x 1950		2380x860 x1950
	Packaged dimensions (W x D x H) (m m)	900 x 900 x 2050			900x1000 x1950	1300 x 1000 x 2200		1300x1000 x2200 (x2)
	Net / Gross weight (kg)	580 / 630	630 / 680	680 / 730	680 / 730	1135 / 1200	1355 / 1420	2300 / 2410