

# UPS Online Double Conversion Transformer Based 3PH / 3PH Series HT5000 T (20~120 KVA)

UPS transformer based three-phase are the standard choice for larger installations with critical loads such as data centers, industrial applications, and medical environments, as well as protecting equipment with motors such as lifts, pumps, and fans. There are two main benefits of a transformer-based ups series HT 5000T. 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.

The HT5000T series is available from 20kVA to 120kVA models. Model HT5000T monitoring and control data are shown on an easy-to-understand front panel display with LCD 5.7 inches touch featuring pushbutton controls, LCD readout for event logs and diagnostics, and a mimic diagram for system status. The power protection system can be remotely monitored via RS232, RS485, dry contact, or SNMP interface.



## Specifications

- Online Double Conversion three phase mode
- IGBT inverter with output isolation transformer
- Output power factor 0.9
- Ensures galvanic isolation
- Flexible frequency converter (50 or 60 Hz input)
- Filtered, stabilized and regulated sinewave supply
- Flexible battery solutions
- Internal manual bypass for easy maintenance without power interruption
- Large display panel provides metering, statistics, alarm history and an active mimic screen
- 5.7 inches LCD touch screen, friendly human & machine interface
- With emergency shutdown (EPO) button interface
- Generator compatible
- N+X redundancy parallel up to 6 units (optional)



MODEL		HT 5200T	HT 5300T	HT 5400T	HT 5600T	HT 5800T	HT 51000T	HT51200T
POWER	VA	20000	30000	40000	60000	80000	100000	120000
	W	18000	27000	36000	54000	72000	90000	108000
INPUT	Rated voltage	380V / 400V / 415V						
	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						
	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) ; ≤ 3 % (non-linear load)						
	Waveform	Sinusoidal						
	Transfer time	0 ms						
	Slight adjustment of inverter output voltage	± 5 V						
	Inverter overload capability	105%: long time running _ 105% ~ 110%: transfer to bypass in 1 h _ 110% ~ 125%: transfer to bypass in 10 mins 125% ~ 150%: transfer to bypass in 1 min _ 150% ~ 200%: transfer to bypass in 200 ms _ ≥ 200%: transfer to bypass in 100 ms						
BATTERIES	DC Voltage	360 Vdc (support 336 Vdc / 348 Vdc / 372 Vdc / 384 Vdc ) @ 30 pcs 12V ( support 28 / 29 / 31 / 32 pcs)						
	Charging current	10 A default / Settable						
	Charging	Three-stage charging, auto switch floating/equalizing charge						
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						
	EMI	EN62040 - 2						
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						
	Humidity	55 dB		60 dB		65 dB		
	Noise level	0~95% RH @ 0~40°C (non-condensing)						
PHYSICAL	Dimensions (W x D x H) (mm)	400 x 800 x 1100			600 x 700 x1500	700 x 800 x 1700		
	Packaged dimensions (W x D x H) (mm)	490 X 890 x 1170			700 x 800 x1650	800 x 900 x 1850		
	Gross weight (kg)	175 / 217	210 / 252	260/302	460/ 480	590 / 620	630/ 660	690 / 720