

UPS Online Double Conversion Tower - Single Phase Series HT3000 (1 ~ 10 KVA)

Specifications



- Online Double Conversion technology with stable and uninterrupted power and complete sine waveform in linear and non-linear load at maximum load consumption
- Input power factor 0.99 and Active Power Factor Correction (APFC)
- Output Power factor of 1
- DSP (digital signal processors) control technology
- LCD display to show input and output voltage, power as VA & frequency, inside temperature of the device, battery charge and load consumption rate
- Adjust the output Voltage, Selectable battery shutdown voltage (EOD), automatic start, bypass mode and ECO mode through the LCD display panel
- Advanced Battery Management (ABM) to control battery charge, discharge and fast and stable charge in about three hours and prevention of excessive battery discharge
- With EMI protection filters and RFI varistor and protection against over current and over voltage, short-circuit, DC reverse voltage and lightning
- Start without the need for city electricity (Cold Start) and automatic start-up after connecting the city electricity and settable delayed start when power is restored
- Flexible battery configuration in UPS 6K & 10K (168/180/192/204/216/228/240 settable)
- Adjust the output frequency at 50 and 60 Hz and has Auto Sensing Frequency
- Effective software and hardware protection
- Function at relative Humidity between 0 to 95% and temperature between 0 to 40 degrees Celsius
- Turn off the device automatically in on sump hot no-load mode (ECO Mode)
- Shut down automatically in emergency time
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function
- Wide input frequency range for operation with variety of generators in the range of 40 to 70 Hz and proper stabilization of the output frequency of 50 Hz with a tolerance of 0.1
- 6000–10000 VA
- Advanced dual-core DSP control technology and 3-level technology
- System efficiency improved to 95%, energy saving rate is doubled
- Input voltage range from 90 volt to 288 volt
- Working efficiency up to 98% in ECO mode
- Standard 5A Charger, Optional 12A Charger (long time model)
- Flexible battery configuration (settable 10–22 pcs batteries)
- Fan speed varies intelligently with load, reducing noise and extending its service life
- 1000–3000 VA
- Input voltage range from 110 volt to 300 volt
- Rear ventilation design and variable speed fan
- Quick and stable charging, 90% capacity restored in 3h (standard model UPS)

UPS Online Double Conversion

Tower - Single Phase

Series HT3000 (1 ~ 10 KVA)

MODEL		HT 3010	HT 3020	HT 3030	HT 3060	HT 3100
POWER	VA	1000	2000	3000	6000	10000
	kW	1000	2000	3000	6000	10000
	Rated voltage			208 V/ 220 V/ 230 V/240 V		
INPUT	Voltage range	110 ~ 176 V (Linear derating between 50% and 100% load)	176 ~ 280 V (no derating)	280 ~ 300 V (derating 50%)		
	Rated frequency			50 / 60 Hz (auto-sense)		
	Frequency			40 ~ 70 Hz (auto-sense)		
	Power factor			≥ 0.99		
	Total harmonic distortion	THDI ≤ 6%			THDI ≤ 5%	
	Bypass voltage range	- 25% ~ +15% (settable)			- 40 %~ +15% (settable)	
	Voltage	208 V/ 220 V/ 230 V/ 240 V (settable via LCD)				
	Power factor			1		
	Voltage regulation			± 1%		
	Frequency	Synchronized with utility in mains mode 50/60Hz ± 0.1 Hz in battery mode				
OUTPUT	Waveform			Sinusoidal		
	Crest factor			3:1		
	Harmonic distortion	≤ 2% (linear load)	≤ 5% (non-linear load)			
	Transfer time	Mains mode to battery mode 0 ms	Inverter mode to bypass mode : 0 ms			
	Overload	1~3	105% ~ 125% for 1min, 125% ~ 150% for 30s, >150% for 300 ms			
		6~10	105% ~ 110% for 10min, 110% ~ 125% for 1min, 126% ~ 150% for 30s			
	DC voltage	36	72	96	Default 192Vdc (120~264Vdc) Default 16pcs, settable 10-22pcs(10~15 pcs linear derating to 50%)	
BATTERIES	internal model			1A		
	Charging current	external model	6A		Standard model:1A(default),1~5A settable Long time model:5A(default),1~5A settable	
	Recharge time	internal model	90% capacity restored in 3 hours		90% capacity restored in 8 hours	
		external model	depend on the capacity of battery			
SYSTEM		Mains mode	≥ 90 %	≥ 91%	≥ 92%	≥ 94 %
	Efficiency	Battery mode	≥ 85 %	≥ 86%	≥ 87%	≥100 %
		ECO mode	≥ 95%	≥ 96%	≥ 97%	≥ 98 %
	Display			LCD + LED		
	Communications			RS232 (standard) USB & SNMP (optional)		
	Alarms			Overload, Battery mode, battery voltage low, fans fault etc		
OTEHRS	Humidity	Operating temperature	0 ~ 90% (non - condensing), 0°C ~ 40°C			
	IP rating			IP 20		
	Noise level		≤ 50 dB (1m)		≤ 55 dB (1m)	
	Dimensions (WxDxH)(mm)	internal N	144×371×216	191×419×335	191×500×515	
		external X	144×336×216	191×418×335	191×440×350	
	Packaged dimensions (WxDxH)(mm)	internal N	230×460×315	277×500×435	310×654×600	
		external X	232×417×318		318×570×475	
	Net weight(kg)	internal N	12/8	23/1	29/4	49/5
		external X	6	10/5	11	14/5
	Gross weight (kg)	internal N	14	24/7	31/1	58
		external X	7	12	12/5	16
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