

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 0.9
- DSP (digital signal processors)control technology
- Input voltage range from 110 volt to 300 volt
- 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 telorance of 0.1
- 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 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
- Communication with PC by RS232 (standard), USB / RS485 / SNMP / Dry Call (optional)



MODEL		HT 3010	HT 3020	HT 3030	HT 3060	HT 3100				
POWER	VA	1000	2000	3000	6000	10000				
	W	900	1800	2700	5400	9000				
INPUT	Rated voltage	208 V/ 220 V/ 230 V/240 V								
	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)					
OUTPUT	Voltage	208 V/ 220 V/ 230 V/ 240 V (settable via LCD)								
	Power factor	0.9								
	Voltage regulation	± 1%								
	Frequency	Synchronized with utility in mains mode 50/60Hz ± 0.1 Hz in battery mode								
	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 1 min, 125% ~ 150% for 30 s, >150% for 300 ms							
		6~10	102% ~125% : in 10 mins, 125% ~150% : in 1 min , > 150% : in 0/5 s							
BATTERIES	DC voltage	36	72	72 ~ 96	192~240					
	Charging current	internal model	1A							
		external model	6A			8A				
	Recharge time	internal model	90% capacity restored in 3 hours			90% capacity restored in 4 hours				
external model		depend on the capacity of battery								
SYSTEM	EFFICIENCY	Mains mode	≥ 90 %	≥ 91%	≥ 92%	≥ 93 %				
		Battery mode	≥ 85 %	≥ 86%	≥ 87%	≥ 91 %				
		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									
OTHERS	Humidity Operating temperature	0 ~ 90% (non - condensing), 0°C ~ 40°C								
	IP rating	IP 20								
	Noise level	≤ 50 dB (1m)			≤ 55 dB (1m)					
PHYSICAL	Dimensions (WxDxH) (mm)	internal N	144 x 414 x 214	191 x 418 x 335	191 x 464 x 332	191 x 465 x 710				
		external X	144 x 336 x 214		191 x 418 x 335	191 x 465 x 350				
	Packaged dimensions (WxDxH) (mm)	internal N	230 x 492 x 320	280 x 533 x 437	210 x 573 x 472	310 x 645 x 895				
		external X	232 x 417 x 318		318 x 533 x 471	265 x 575 x 435				
	Net weight (kg)	13 (N)	6 (X)	25.7	27 (N)	11 (X)	58 (N)	15.5 (X)	67 (N)	16.5 (X)
	Gross weight (kg)	14.5 (N)	7 (X)	27.4	29 (N)	12.5 (X)	65 (N)	18 (X)	73 (N)	18 (X)