

# UPS Online Double Conversion 3phase / 1phase Series HT 4000 (10~20 KVA)



## Specifications

- Online Double Conversion uninterrupted power and complete sine waveform in linear and non-linear load at maximum load
- Input power factor 0.99 and Active Power Factor Correction (APFC)
- (DSP) digital signal processors control technology
- Selectable input mode via LCD (3ph/1ph or 1ph/1ph)
- Input voltage range from 110 volt to 300 volt
- Output power factor 0.9
- Flexible battery configuration in UPS (168/180/192/204/216/228/240 settable)
- Start without the need for city electricity (Cold Start), settable delayed start when power is restored
- Adjust the output frequency at 50 and 60 Hz, Auto Sensing Frequency
- Adjust the output Voltage, Selectable battery shutdown voltage (EOD), automatic start, bypass mode and and ECO mode through the LCD display panel
- Standard emergency power off (EPO)
- Effective software and hardware protection power-on self-test
- Advanced Battery Management (ABM) to control battery charge discharge and fast, stable charge in about three hours, prevention of excessive battery discharge, automatic charging in OFF mode
- EMI protection filters and RFI varistor and protection against over current and over voltage,
- Short-circuit, DC reverse voltage and lightning
- Function at relative Humidity between 0 to 95% and temperature between 0 to 40°C, fan speed auto control when temperature varies
- Communication with PC by RS232 (standard), USB / RS485 / SNMP / Dry Call (optional)



MODEL		HT4100	HT4150	HT4200
POWER	VA	10000	15000	20000
	W	9000	13500	18000
INPUT	Rated voltage	3 / 1	360 V/380 V/400V/ 415 V	
		1 / 1	208 V/ 220 V/ 230 V/ 240 V (settable via LCD)	
	Voltage range	3 / 1	190 ~277 V (derating 50%) , 277 ~ 520 V (no derating)	
		1 / 1	110 ~160 V (derating 50%) ,160 ~ 300 V (no derating)	
	Frequency		40 ~ 70 Hz (auto-sense) @ 50/60 Hz ± 5 Hz Bypass	
	Power factor		0.99	
Bypass voltage range		- 40% ~ +15% (settable)		
OUTPUT	Rated Voltage		208 V / 220 V/ 230 V/ 240 V (settable via LCD)	
	Voltage regulation		± 1%	
	Frequency		Synchronized with utility in mains mode; 50 / 60 HZ	
	Power factor		0.9	
	Waveform		Sinusoidal	
	Crest factor		3:1	
	Harmonic distortion		≤ 2% (linear load) ; ≤ 5% (non-linear load)	
	Transfer time		0 ms	
	Overload Time Transfer to Bypass		105% ~ 125% : transfer to bypass in 3 mins 125% ~ 150% : transfer to bypass in 30 s	
BATTERIES	DC voltage		192 / 240 Vdc @ 12V (support 16/20 PCS)	
	Charging current		7A	
	Recharge time		8h	
SYSTEM	Alarms		Utility failure, Low battery, Overload, UPS fault	
	Protections		Short-circuit, overload, overtemperature, low battery , overvoltage, undervoltage and fan failure	
	Communications		RS232 (standard) / USB,SNMP (optional)	
	Efficiency		Mains mode ≥ 92% , Battery mode ≥ 91% , ECO mode ≥ 98%	
OTHERS	Humidity temperature		20 ~ 90% RH @ 0 ~ 40°C (non-condensing)	
	IP rating		IP 20	
	Noise level (1m)		≤ 58 dB	≤ 60dB
PHYSICAL	Dimensions (W × D × H) (mm)		260 x 580 x 455	260 x 580 x 630
	Packaged dimensions (W×D×H) (mm)		355 x 680 x 615	360 x 687 x 835
	Net weight(kg)		25	39
	Gross weight(kg)		29	47