

# PowerHeart T

## 100~600kVA 3 Phases Tower UPS

### Power range

100~600 kVA

### Operation

3P/3P, Online double conversion

### Designed to CARE

Small & Medium Data Center, High Density Smart Solutions, Light Industrial Applications, Smart Industry, Medium and Large Offices, Corporate Buildings.

### Characteristics

- 3P/3P pure online double transformation products, support 380 / 400 / 415V, 50 / 60Hz power grid system, to provide the ideal power supply quality and load protection.
- High performance and efficiency, input PF>0.99,THDi<3%, efficiency >96%.
- Full DSP control, flexible and robust digital control for rectifier, inverter and battery management.
- Wide range of voltage and frequency, adapt to different grid and generator input.
- Intelligent system self-diagnosis scheme, rich fault recording, large capacity of history record storage space.
- Redundancy fan design in power module, increasing the system reliability and tolerance.
- Top/bottom cable entry, flexible for different field installation.



# PowerHeart T

10~80kVA 3 Phases Tower UPS

Internal 7/9Ah modular battery strips

## Power range

10 ~80 kVA

## Operation

3P/3P, Online double conversion

## Designed to CARE

Small & Medium Data Center, High Density Smart Solutions, Light Industrial Applications, Smart Industry, Medium and Large Offices, Corporate Buildings.

## Characteristics

- 7 inch touch LCD with IoT functions.
- High power density, small volume.
- High reliability and environment adaptability.
- Optional full metal battery strips, with internal batteries capable of configuring up to 16 battery module strips.



Full metal battery strips  
(Optional)

Model		PHTT010B-120	PHTT015B-120	PHTT020B-120	PHTT030B-120	PHTT040B-120	PHTT060B-160	PHTT080B-160
		PHTT010L	PHTT015L	PHTT020L	PHTT030L	PHTT040L	PHTT060L	PHTT080L
Rate Power		10kVA	15kVA	20kVA	30kVA	40kVA	60kVA	80kVA
Main input	Input	3P5W (3P+N+PE)						
	Rate Voltage	380/400/415VAC(L-L) 220/230/240VAC(L-N)						
	Rate Freq.	50/60Hz						
	Input PF	>0.99						
	Current distortion	THDi<3% 100% Linear load						
	Voltage range	304-478VAC(L-L)full load 304-228VAC (L-L) power derate from 100% to 75%						
	Freq. range	40-70Hz						
Battery	Rate voltage	±240VDC						
Battery	Model	UPS with internal batteries,12VDC/7-9Ah UPS for external batteries,Settable						
	Quantity	Internal BAT	120PCS				160PCS	
		External BAT	Depend on external battery, 40PCS					
	Charging capacity	20%*Pout						
	Charging accuracy	±1%						
Bypass	Rate voltage	380/400/415VAC(L-L)220/230/240VAC(L-N)						
	Voltage range	Range: -40%- +25%, Settable, default -20% +15%						
	Frequency range	50/60Hz Settable ±1Hz ±3Hz ±5Hz						
Inverter	Rate voltage	380/400/415VAC(L-L) 220/230/240VAC(L-N)						
	Rate Freq.	50/60Hz						
	Output PF	1						
	Voltage accuracy	±1.0%						
	Load response	<5% (20% - 80% -20% step load)						
	Recovery time	< 20ms (0% - 100% -0% step load)						
	Output THDu	<1% (linear load) , <5% (non-linear load according to IEC 62040-3)						
	Overload	110%,1 hour 125%,10 mins 150%,1 min >150%,200ms						
	Frequency accuracy	0.1%						
	Synchronize window	Settable ±0.5Hz-±5Hz default ±3Hz						
	Slew rate	Settable 0.5Hz/S-3Hz/S default 0.5Hz/S						
	Crest factor	3:1						
	Phase Accuracy	120°±0.5°						
	System	Efficiency	Normal Mode up to 96%; Battery Mode up to 96%					
Display		LED + 7 inch touch LCD						
Certification- Safety		IEC62040-1, IEC60950-1						
Certification- EMS		IEC62040-2 IEC61000-4-2(ESD) IEC61000-4-3(RS) IEC61000-4-4 (EFT) IEC61000-4-5 (Surge)						
IP degree		IP20						
Configuration		USB, RS232, RS485, Dry contact, Air filter						
Option		SNMP card, AS400 card, Parallel kit, LBS, Cold start						
Environment	0-40 °C (operation); -25°C-70 °C (storage); 0-95% (Humidity, non-condensing)							
Dimension (W*D*H)	Internal BAT	500*864*922					500*865*1250	
	External BAT	250*530*650				250*782*650		
Weight(kg)	Internal BAT (No include batteries)	143		153		155		200
	External BAT	43		53		66		72