



# HT SERIES UPS

# **HT SERIES**

## **1KVA - 3KVA (1/1 Phase)**



### Features

- High frequency and double conversion online technology
- Fully digitized microprocessor control
- Wide input voltage range
- LCD display
- UPS start up without battery (optional)
- Cold Start
- Advanced battery management
- Automatic battery charging in UPS off mode
- Lightning and surge protection (optional)
- Short circuit and overload protection
- Fan speed adjusted by load automatically
- Network / Fax / Modem Surge Protection (optional)
- Optional extension battery rack
- Battery voltage display
- Load capacity display
- EMI / RFI noise filter
- Smart RS232 communication with monitoring software
- Optional SNMP Card Slot
- Input L and N reserved alarm function

# HT SERIES

## 1KVA - 3KVA (1/1 Phase)

Parameter

Model		HT1K(L)	HT2K(L)	HT3K(L)
Capacity		1000VA	2000VA	3000VA
Input	Voltage		120~295V	
	Frequency		45-65Hz Auto Sensing	
	Power Factor		≥98%	
Output	Voltage		220VAC±1%	
	Frequency		50/60Hz ± 0.05% (battery mode)	
	Efficiency		>99%	
	Power Factor		0.8/0.9 (optional)	
	Crest Factor		>3:1	
	Distortion THD		Non-Linear Load THD < 5% ; Linear Load THD < 3%	
	Overload		< 105% 10 min ; 105% - 130% 1 min ; > 130% 200ms	
Battery	Type		Value Controlled Sealed Lead-Acid Battery	
	DC Voltage	24VDC/36VDC	72VDC	72VDC/96VDC
	Quantity for Standard Type	12V/7AH x 2 pcs / 7AH x 3 pcs	12V/7AH x 6 pcs	12V/7AH x 6 pcs / 7AH x 8 pcs
	Charging Current	1A/2A (4A,6A)	1A/2A (4A,6A)	1A/2A(4A,6A)
Transfer Time	AC Fault		0ms	
	Over Temperature		<4ms	
Protection	Short Circuit		Shut Off Inverter and Bypass Output	
	Over Temperature		Transfer to Bypass Output Automatically	
Display	LCD		Input Voltage, Output Voltage, Current, Frequency, Battery Voltage & Charging Current, Fault, Alarm	
	LED		UPS Status	
Alarm	Battery Low Voltage		Alarm Each Second	
	UPS Overload		Alarm Continually	
	UPS Fault		Alarm Continually	
Communication Interface		RS232 (SNMP & USB Optional)		
Environment	Temperature		0°C-40°C	
	Humidity		≤95%	
	Noise (within 1 meter)	<45dB	<50dB	
Weight (Net Weight)		11Kg/6.75Kg	21.5Kg/7.5Kg	22Kg/8Kg
Dimension WxDxH (mm) for UPS		145 x 350 x 220	190 x 395 x 320	

# **HT SERIES**

## **6KVA - 10KVA (1/1 Phase)**



### **Features**

- High frequency and double conversion online technology
- Fully digitized microprocessor control
- Wide input voltage range
- LCD display
- UPS start up without battery (optional)
- Cold Start
- Advanced battery management
- Automatic battery charging in UPS off mode
- Lightning and surge protection (optional)
- Short circuit and overload protection
- Fan speed adjusted by load automatically
- Network / Fax / Modem Surge Protection (optional)
- Optional extension battery rack
- Battery voltage display
- Load capacity display
- EMI / RFI noise filter
- Smart RS232 communication with monitoring software
- Optional SNMP Card Slot
- Input L and N reserved alarm function
- EPO function (optional)

# HT SERIES

## 6KVA - 10KVA (1/1 Phase)

Parameter

Model		HT6K(L)	HT10K(L)	
Capacity		6000VA	10,000VA	
		N + X Parallel (up to 3 pcs)		
Input	Voltage	120VAC-280VAC		
	Frequency	45-55Hz (55-65Hz) Auto Sensing		
	Power Factor	≥99%		
Output	Voltage	220VAC±1%		
	Frequency	50/60Hz ± 0.2% (battery mode)		
	Distortion THD	Non-Linear Load THD < 5% ; Linear Load THD < 3%		
	Overload	105%-125% 1 min, 125%-150% 30s, > 150% 0.5s		
	Crest Factor	>3:1		
	Power Factor	0.8/0.9		
	Efficiency	>91%		
	Dynamic Response	Full Load ± 3%		
	Wave Form	Sine Wave		
Battery	Type	Value Controlled Sealed Lead-Acid Battery		
	DC Voltage	192VDC		
	Quantity for Battery	12V/7AH x 16 (pcs)		
	Charging Current	2A/4A 8A (Optional)		
Transfer Time	AC Fault	0ms		
	Over Temperature	0ms		
Protection	Short Circuit	Shut Off Inverter and Bypass Output at The Same Time		
	Over Temperature	Transfer to Bypass Output Automatically		
Display	LCD	Input Voltage, Output Voltage, Current, Frequency, Battery Voltage & Charging Current, Fault, Alarm		
	LED	UPS Status		
Alarm	Battery Low Voltage	Alarm Every Second		
	AC Fault	Alarm Every 4 Second		
	UPS Overload	Alarm Continually		
	UPS Fault	Alarm Continually		
Communication Interface		RS232 (SNMP Optional)		
Environment	Temperature	0°C-40°C		
	Humidity	≤90%		
	Noise (within 1 meter)	<50dB		
Weight (Net Weight)		18Kg/57Kg	20Kg/67.5Kg	
Dimension WxDxH (mm) for UPS		240 x 500 x 440 (L) / 248 x 500 x 565		

# **HT33 SERIES**

## **10KVA - 80KVA (3/3 Phase)**



### ↳ Features

- Double conversion online technology
- Adopt DSP technology
- LCD display touch control
- Adopt ECO mode
- Smart RS232 communication with monitoring software
- Adopt EPO mode
- Wide input voltage range
- Charging voltage can be adjusted
- N+X parallel
- Optional SNMP USB/RS458

# HT33 SERIES

## 10KVA - 80KVA (3/3 Phase)

Parameter

Model	HT33 10-40kVA		HT33 50-80kVA			
Capacity		10-40kVA	50-80kVA			
Input	Input	Three Phase four wire+ground				
	Rated Voltage	380/400/415VAC				
	Voltage Range	208~478V				
	Frequency Range	45~55Hz at 50Hz/54~66Hz at 60Hz (Adaptive)				
	Power Factor	$\geq 0.99$				
	Input Current Harmonic	$\leq 3\%$ (100% non-linear load)				
	Bypass Voltage	Bypass Protection Voltage Upper Limit: 220V: +25% (optional: 10%, 15%, 20%) 230V: +20% (optional: 10%, 15%) 240V: +15% (optional: 10%)				
Output	Bypass Protection Voltage Lower	Bypass Frequency Protected Range: $\pm 10\%$ Limit: -20% (optional: 20%, 30%)				
	Output	Three Phase four wire+ground				
	Rated Voltage	380/400/415VAC				
	Power Factor	0.9 or 0.8				
	Voltage Accuracy	$\pm 1\%$				
	Output Frequency	Mains	Synchronize with input; when the mains frequency exceeds the maximum (can set $\pm 1\%$ , $\pm 2\%$ , $\pm 4\%$ , $\pm 5\%$ ) Output frequency 50 x ( $\pm 0.2$ )Hz			
		Battery	$(50/60 \pm 0.2\%)$ Hz			
Battery	Load Peak Ratio	3:1				
	Output Total Harmonic Distortion	$\leq 2\%$ linear load, $\leq 5\%$ non-linear load				
	Efficiency	Normal Mode $\geq 94.5\%$				
	Battery Voltage	192V DC/ $\pm 192$ V DC				
	Charging Current	10A max	20A max			
	Exchange Time	Mains mode turn to bypass mode: 0ms (track)				
		Mains mode turn to battery mode: 0ms				
Protection	Overload capability	$\leq 110\%$ , 60 minutes, $\leq 125\%$ , maintain 10 minutes, $\leq 150\%$ , maintain 1 minute, $\geq 150\%$ shut down the machine				
	Over temperature protection	Normal Mode: turn to bypass mode;				
		Battery Mode: shut down the output immediately				
	Emergency shut down (EPO)	Shut down the output immediately				
		USB, RS485, Dry Node, Parallel (optional)				