



# PowerOne Series High Frequency Online UPS

1kVA~3kVA 1:1 PF:1.0



## Performance Characteristics

- True double conversion
- Microprocessor control optimizes reliability
- DSP technology guarantees high performance
- Sinus shaped power feed (high-frequency pulse width modulation with IGBTs)
- Input power factor correction
- Output power factor 1
- Extremely wide input voltage window of 110 VAC to 300 VAC
- High efficiency up to 95.5%
- 50Hz/60Hz frequency converter mode
- ECO and frequency operating voltage possibilities
- Emergency power off(EPO) function
- Graphic LCD display with interactive multilingual user interface
- Adjustable battery numbers
- Adjustable charging current via LCD panel
- Adjustable charging mode with two stages or three stages
- Charger capacity expansion to 12A for long-run models
- Programmable output voltage
- Cold start by battery without grid Input
- Advanced battery charging technology for maximum durability of the battery
- Generator compatible
- Extension slot for SNMP, potential-free contacts, remote panel

## Series Overview

POWER ONE is a double conversion online UPS with output power factor 1. Designed in small footprints, it adopts advanced DSP digital control technology to effectively improve product performance and system reliability. The ECO and frequency inverter operation modes highlight the requirements for a modern versatile UPS. It is widely suitable for safe supply of application-critical loads in the IT environment such as workstations, servers, storage systems and sensitive switching and control systems.

## Technical Specifications

Model		PET1101	PET1101B	PET1102	PHT1102B	PET1103	PET1103B
Capacity		1KVA/1KW		2KVA/2KW		3KVA/3KW	
Battery Voltage		36VDC	24VDC	72VDC	48VDC	96VDC	72VDC
Size,D×W×H(mm)		385×143×222		395×143×222			455×190×330
Weight(Kg)		4	8	6	14	6	22
Input	Input Format	L+N+PE					
	Rated Voltage	208/220/230/240VAC					
	Voltage Range	110-300VAC					
	Frequency Range	50/60±6Hz(Default), ±10Hz(Settable)					
	Power Factor	≥0.99					
	Harmonic Distortion(THDi)	≤3 % THD (Linear Load);≤ 5% THD (Non-linear Load)					
Output	Output Format	L+N+PE					
	Rated Voltage	208/220/230/240VAC					
	AC Voltage Regulation	±1%					
	Frequency Range	AC Mode:same as AC, Battery Mode:50/60Hz±1%					
	Harmonic Distortion(THDi)	≤1% THD (Linear Load);≤3% THD (Non-linear Load)					
	Power Factor	1					
	Overload Capacity	AC Mode:			Battery Mode:		
		30min@102%~110% load			1min@102%~110% load		
		10min@110%~130% load			10s@110%~130% load		
		30s@130%~150% load			3s@130%~150% load		
200ms@>150% load			200ms@>150% load				
Wave Form	Pure Sine Wave						
Transfer Time	AC Mode to Battery Mode	0ms					
	Inverter to Bypass	4ms					
Efficiency	AC Mode	94.5%@220VAC		95.5%@220VAC			
	Battery Mode	88.5%	87.5%	91.5%	89.5%	91.5%	91.5%
Battery	Battery Type	Depending on applications					
	Battery Numbers	3	12V7Ah×2	6	12V7Ah×4	8	12V7Ah×6
	Charging Current	5A(Default), 1-12A(Adjustable)	1A(Default), 1-4A(Adjustable)	5A(Default), 1-12A(Adjustable)	1A(Default), 1-4A(Adjustable)	5A(Default), 1-12A(Adjustable)	1A(Default), 1-4A(Adjustable)
	Charging Mode	Two-stage / Three-stage charging					
Display	LCD Display	Working mode/load/input/output					
Environment	OperationTemperature	0~40°C					
	Storage Temperature	-15~60°C (Battery:0~40°C)					
	Relative Humidity	20%~95%(No condensation)					
	Altitude	≤1000m					
	Noise	<45dB@1 Meter					
Management	RS232/USB	Windwos 2000/2003/XP/Vista/2008/7/8/10, Linux and MAC					
	Optional SNMP	Power management from SNMP manager and web browser					



# PowerOne Series High Frequency Online UPS

6kVA~10kVA 1:1 PF:1.0



## Performance Characteristics

- True double conversion
- Microprocessor control optimizes reliability
- DSP technology guarantees high performance
- Sinus shaped power feed (high-frequency pulse width modulation with IGBTs)
- Input power factor correction
- Output power factor 1
- Extremely wide input voltage window of 110 VAC to 300 VAC
- High efficiency up to 95.5%
- 50Hz/60Hz frequency converter mode
- ECO and frequency operating voltage possibilities
- Emergency power off(EPO) function
- Graphic LCD display with interactive multilingual user interface
- Adjustable battery numbers
- Adjustable charging current via LCD panel
- Adjustable charging mode with two stages or three stages
- Charger capacity expansion to 12A for long-run models
- Programmable output voltage
- Cold start by battery without grid Input
- Smart battery charger design to optimize battery performance
- Generator compatible
- Extension slot for SNMP, potential-free contacts, remote panel
- Optional N+X parallel redundancy and performance increase
- Optional manual maintenance bypass switch

## Series Overview

With a high output power factor of 1 the POWER ONE 6KVA/10KVA exceeds the power of conventional UPS systems by 25%. Efficiency is significantly increased during normal operation as well as in the energy-efficient ECO operating modes. It also has USB and RS232 communication interface as standard, with a built-in intelligent slot for additional adapters, protocol converters and related contact card.

## Technical Specifications

Model		PET1106	PET1106B	PET1110	PHT1110B
Capacity		6KVA/6KW		10KVA/10KW	
Battery Voltage		192VDC			
Size,D×W×H(mm)		390×190×330	475×190×696	390×190×330	475×190×696
Weight(Kg)		15	53	15	53
Input	Input Format	L+N+PE			
	Rated Voltage	208/220/230/240VAC			
	Voltage Range	110-300VAC			
	Frequency Range	50/60±6Hz(Default), ±6Hz(Settable)			
	Power Factor	≥0.99			
	Harmonic Distortion(THDi)	≤5 % THD (Linear Load); ≤ 8% THD (Non-linear Load)			
Output	Output Format	L+N+PE			
	Rated Voltage	208/220/230/240VAC			
	AC Voltage Regulation	±1%			
	Frequency Range	AC Mode:same as AC, Battery Mode:50/60Hz±1%			
	Harmonic Distortion(THDi)	≤2 % THD (Linear Load); ≤ 5% THD (Non-linear Load)			
	Power Factor	1			
	Overload Capacity	AC Mode : 30min@102%~110% load 10min@110%~130% load 30s@130%~150% load 500ms@>150% load		Battery Mode : 10min@102%~110% load 1min@110%~130% load 10s@130%~150% load 500ms@>150% load	
	Wave Form	Pure Sine Wave			
	Transfer Time	AC Mode to Battery Mode	0ms		
Inverter to Bypass		0ms			
Efficiency	AC Mode	Maximum efficiency 95.5%, Full load efficiency 95%			
	Battery Mode	Maximum efficiency 95.3%, Full load efficiency 94.8%			
Battery	Battery Type	Depending on applications			
	Battery Numbers	16	12V7Ah×16	16	12V7Ah×16
	Charging Current	5A(Default), 1-12A(Adjustable)	1A(Default)	5A(Default), 1-12A(Adjustable)	1A(Default)
	Charging Mode	Two-stage / Three-stage charging			
Display	LCD Display	Working mode/load/input/output			
Environment	OperationTemperature	0~40°C			
	Storage Temperature	-15~60°C (Battery: 0~40°C)			
	Relative Humidity	20%~95%(No condensation)			
	Altitude	≤1000m			
	Noise	<45dB@1 Meter			
Management	RS232/USB	Windwos 2000/2003/XP/Vista/2008/7/8/10, Linux and MAC			
	Optional SNMP	Power management from SNMP manager and web browser			