



POWER ONE Rack Mount UPS

1kVA~3kVA 1:1 PF:1.0



Performance Characteristics

- True double conversion
- Microprocessor control optimizes reliability
- DSP technology guarantees high performance
- 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 mode for energy saving
- 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 charging technology for maximum durability of the battery
- Generator compatible
- Extension slot for SNMP

Series Overview

POWER ONE rack mount type is a double conversion online UPS with output power factor 1. Designed in 2U, 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		PER1101	PER1101B	PER1102	PHR1102B	PER1103	PER1103B
Capacity		1KVA/1KW		2KVA/2KW		3KVA/3KW	
Battery Voltage		36VDC	24VDC	72VDC	48VDC	96VDC	72VDC
Size,D×W×H(mm)		440×420×88					440×600×88
Weight(Kg)		6	9.5	6.5	17	7	21.5
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					



POWER ONE Rack Mount UPS

6kVA~10kVA 1:1 PF:1.0



Performance Characteristics

- True double conversion
- Microprocessor control optimizes reliability
- DSP technology guarantees high performance
- 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 to maximize energy savings
- 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
- Optional N+X parallel redundancy and performance increase

Series Overview

POWER ONE Rack Mount UPS 6KVA/10KVA provides backup power for mission critical equipment in server rooms, data centers, and other vital equipment. It ensures a consistent flow of electricity to help prevent costly equipment failure and data loss during power failures, brownouts, or other power issues. It also provides remote power management of the UPS over the network.

Technical Specifications

Model		PER1106	PER1106B	PER1110	PHR1110B
Capacity		6KVA/6KW			10KVA/10KW
Battery Voltage		192VDC			
Size,D×W×H(mm)		440×420×88	UPS:440×420×88 Battery Pack: 440×680×88	440×420×88	UPS:440×420×88 Battery Pack: 440×680×88
Weight(Kg)		10	UPS:10 Battery Pack:48	11	UPS:11 Battery Pack:48
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 :	Battery Mode :		
		30min@102%~110% load	10min@102%~110% load		
		10min@110%~130% load	1min@110%~130% load		
		30s@130%~150% load	10s@130%~150% load		
500ms@>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℃			
	Storage Temperature	-15~60℃ (Battery:0~40℃)			
	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			