

Powerpass Primer Prestige 3000

Features

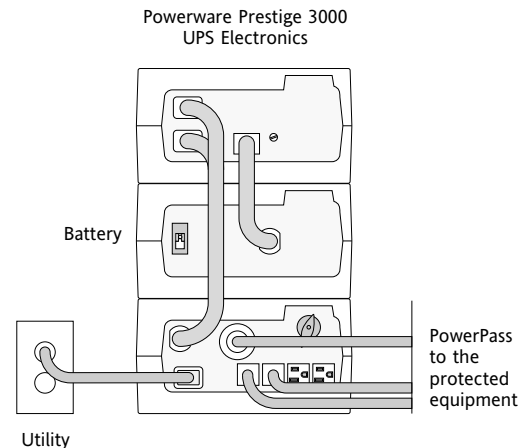
Optional PowerPass modules further enhance the reliability of the Powerware 9 Prestige by providing the following:

- ▶ Maintenance Bypass Switch to perform maintenance or upgrade your UPS without powering down your critical systems
- ▶ Surge protection in the absence of the UPS electronics module during maintenance
- ▶ Various receptacle or hardwired configurations
- ▶ Increased surge protection for your load
- ▶ Galvanic isolation for increased protection
- ▶ A transformer that allows power output of 120V and a combination of 120V and 208V-240V



The Powerware Prestige 3000

UPS can be connected to your equipment via a plug-and-play PowerPass or a hardwire PowerPass (Hardwire is a direct connection from the utility distribution panel to the UPS). Use the questions in this guide to determine the need for or to correctly specify a Powerware Prestige 3000 PowerPass Module.



1. What is the voltage of the incoming utility: 120, 208, 220, 230 or 240 volts?

Note: For most U.S. facilities the incoming utility is 120V, 208V or 240V.

1. _____

Incoming Utility Voltage

2. What is the specified input voltage of the equipment to be protected?

2. _____

a. Your UPS requires a PowerPass if:

- ▶ the specified input voltage is a combination of 120V with 208V–240V.
- ▶ a maintenance bypass is required.
- ▶ a hardwire connection is specified. See section 5d.
- ▶ your UPS system requires galvanic isolation.

b. Your UPS may not require a PowerPass if the specified input voltage is 208V–240V.

Input Voltage(s) Required

3. What is the frequency of the incoming utility? 60Hz or 50Hz?

Note: For most U.S. facilities the frequency of the incoming utility is 60Hz. For most European facilities the frequency is 50Hz.

3. _____

Frequency

a. If 60Hz, your UPS requires a PowerPass Distribution Module (PPDM).

b. If 50Hz, your UPS requires a PowerPass Isolation Module (PPIM). See section 5e.

PPDM or PPIM

4. What are the receptacle types required for the equipment to be protected? How many receptacles are specified? See sections 6 and 7 for additional receptacle options.

4. Type No. Required

☐ 5-15R* _____

☐ 5-20R* _____

☐ L5-30R _____

☐ 6-15R* _____

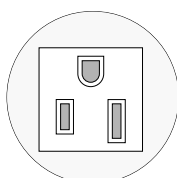
☐ L6-20R _____

☐ L6-30R _____

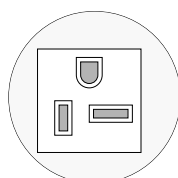
☐ L14-30R _____

☐ IEC-320 _____

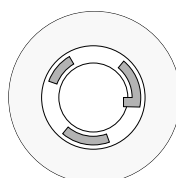
5-15R*



5-20R*

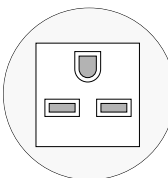


L5-30R

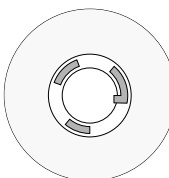


6-15R*

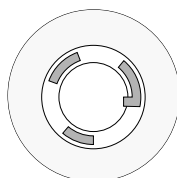
Available on EPDM only



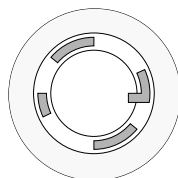
L6-20R



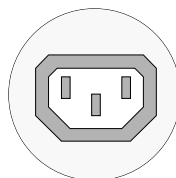
L6-30R



L14-30R



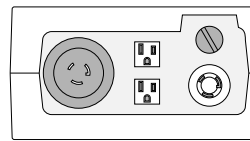
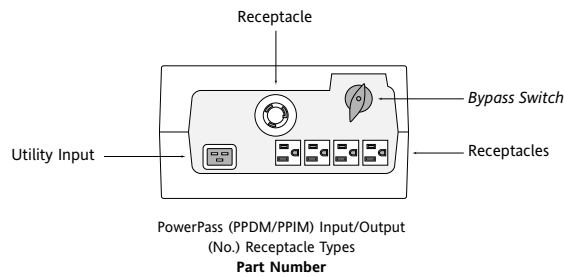
IEC-320



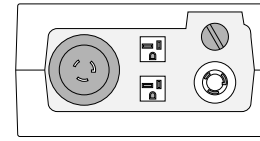
* Available as a locking type receptacle on the EPDM. See section 6.

5. Using the information compiled on the opposite page, choose the appropriate PowerPass for your Prestige 3000 UPS application.

- a. If incoming utility is 120V, choose from these options:

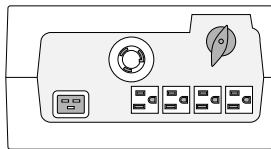


PPDM 120 VAC Output
(1) L5-30R; (2) 5-15R
Part No. 101615264-001
Does not provide galvanic isolation

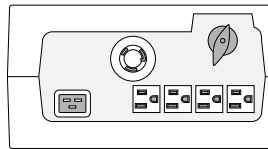


PPDM 120 VAC Output
(1) L5-30R; (2) 5-20R
Part No. 101615264-002
Does not provide galvanic isolation

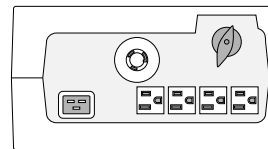
- b. If incoming utility is 208V, choose from these PowerPass options:



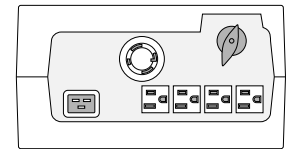
PPDM 120V and 208V Output
(1) L6-30R; (4) 5-15R
Part No. 101614914-001



PPDM 120V Output
(1) L5-30R; (4) 5-15R
Part No. 101614914-003

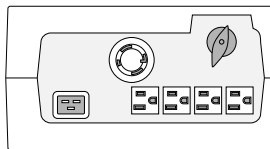


PPDM 120V and 208V Output
(1) L6-20R; (4) 5-15R
Part No. 101614914-005

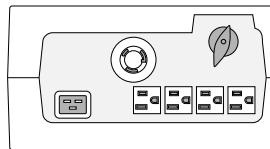


PPDM 120V and 240V Output
(1) L14-30R; (4) 5-15R
Part No. 101614914-007

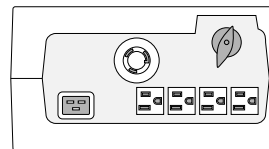
- c. If incoming utility is 220V, 230V or 240V, choose from these PowerPass options:



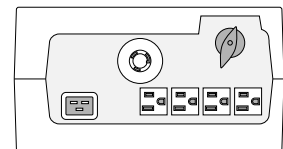
PPDM 120V and 240V Output
(1) L14-30R; (4) 5-15R
Part No. 101614914-002



PPDM 120V Output
(1) L5-30R; (4) 5-15R
Part No. 101614914-004

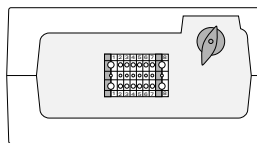


PPDM 120V and 240V Output
(1) L6-30R; (4) 5-15R
Part No. 101614914-006



PPDM 120V and 240V Output
(1) L6-20R; (4) 5-15R
Part No. 101614914-008

- d. If hardwire is specified, choose from these options:

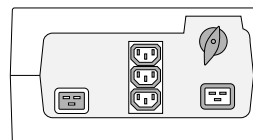


PPDM 120 Vac Hardwire Input/Output
Part No. 101615263-001
Does not provide galvanic isolation

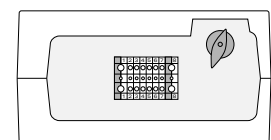
PPDM 208 Vac Hardwire Input
208/120 Vac Hardwire Output
Part No. 101615189-002

PPDM 240 Vac Hardwire Input
240/120 Vac Hardwire Output
Part No. 101615189-003

- e. If utility frequency is 50 Hz, choose from these options:

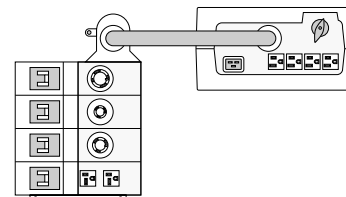


PPIM 220, 230, 240 Vac Input/Output
(3) IEC-320
Part No. 101615083-001



PPIM 220, 230, 240 Vac Input/Output
Hardwire
Part No. 101615189-001

6. If the PowerPass options above do not match your application, call your help desk or your value-added distributor for additional options. Options like the Extended Power Distribution Module (EPDM) figured at right. The EPDM features customizable receptacle options with breakers and mounting options.



PowerPass Distribution Module (PPDM) Specifications*

GENERAL

Ratings	3.0kVA, 2.1kW, 60 Hz
Nominal Output Voltages	120/208, 120/240, or 120 Vac; Rear Panel Configurable
Safety Standards	UL, CUL
Operating Temperature	10°C – 40°C
Electromagnetic Interference	FCC Part 15, Subpart J, Class A
Noise Rejection (10kHz – 100kHz)	Common Mode: > 60dB; Transverse Mode: > 80dB
Input	Utility: 20 Amp IEC 320-C20 From UPS: Y-Cable with IEC 320-C19/C20
Features	Galvanic Isolation Full Maintenance Bypass Power Distribution

INPUT

Nominal Input Voltages	208 Vac Single Phase; 240 Vac Single Phase
Operating Input Frequency Range	55 Hz – 65 Hz
Input Current Inrush	250 Amp peak (half cycle)
Input Protection/Service Requirements	20 Amp upstream circuit breaker required (provided by others)

OUTPUT

Output Voltages	120/208, 120/240, or 120 Vac; Rear Panel Configurable
Output Frequency	60 Hz
Output Power	2000W/3000VA
Rated Output Current	14.4A @ 208 Vac 12.5A @ 240 Vac 12.5A @ 120 Vac 25.0A @ 120 Vac
Output Voltage Total Harmonic Distortion	< 3% for linear loads (powered by UPS)
Steady State Voltage Regulation	± 3% typical
Overload Capacity While On UPS	102% for 4 minutes (–0%, +3%) ≥ 110% for 4 seconds (–0%, +3%) 300% peak current for 3 cycles
Maintenance Bypass Conditions	UPS replacement or maintenance

PHYSICAL

PPDM Dimensions	5.61" h x 9.91" w x 15.75" d 142.5mm h x 251.6mm w x 400mm d
Stacked Height	
Electronics/Battery/PPDM Cabinet	16.83" h; 427.5mm h
Foot Print	5.61" h x 15.75" d; 142.5mm h x 400mm d
Weight	47 lb.; 21.4 kg
Heat Dissipation	514 BTU (Efficiency is 93%)

PowerPass Isolation Module (PPIM) Specifications*

GENERAL

Ratings	3.0kVA, 2.1kW, 50/60 Hz
Nominal Output Voltages	220, 230 and 240 Vac; Rear Panel Configurable
Safety Standards	UL, CUL, NSAI (EN60950)
Operating Temperature	10°C – 40°C
Electromagnetic Interference	CISPR 22A for total system
Noise Rejection (10kHz – 100kHz)	Common Mode: > 60dB; Transverse Mode: > 80dB
Input	Utility: 16 Amp IEC 320-C20 From UPS: Y-Cable with IEC 320-C19/C20
Features	Galvanic Isolation Full Maintenance Bypass Power Distribution

INPUT

Nominal Input Voltages	208, 220, 230 or 240 Vac; Single Phase
Operating Input Voltage Range	176 – 276 Vac
Operating Input Frequency Range	45 Hz – 65 Hz
Input Current Inrush	250 Amp Peak (half cycle)
Input Protection	20 Amp Circuit Breaker

OUTPUT

Output Voltages	208, 220, 230 or 240 Vac Rear Panel Configurable
Output Frequency	50/60 Hz
Output Power	2100W/3000VA
Rated Output Current	13.6A @ 220 Vac 13.0A @ 230 Vac 12.5A @ 240 Vac
Output Voltage Total Harmonic Distortion	< 3% for linear loads (powered by UPS)
Steady State Voltage Regulation	± 3% typical
Overload Capacity While On UPS	> 102% for 4 minutes (–0%, +3%) ≥ 110% for 4 seconds (–0%, +3%) 300% peak current for 3 cycles
Maintenance Bypass Conditions	UPS replacement or maintenance

PHYSICAL

PPIM Dimensions	5.61" h x 9.91" w x 15.75" d 142.5mm h x 251.6mm w x 400mm d
Stacked Height	
Electronics/Battery/PPIM Cabinet	16.83" h; 427.5mm h
Foot Print	5.61" h x 15.75" d; 142.5mm h x 400mm d
Weight	47 lb.; 21.4 kg
Heat Dissipation	514 BTU (Efficiency is 93%)

* Specifications subject to change without notice.

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