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### Description

Power Innovations International's (Pii) power shelf accepts three of Pii's 60 V rectifiers to create a single 10 kW-rated power unit in a 1RU-height, 19"(MGX-style) wide, rack-mounted enclosure. This power shelf also holds Pii's shelf controller (SC) to provide the necessary communication for the modules within the shelf as well as an upstream controller. It is designed to be capable of physically stacking multiple units in parallel to achieve higher power and/or expanded system functions.

### Features and Benefits

- Holds three power modules per shelf, along with one shelf controller (SC)
- Has a built-in capability to parallel multiple power shelves to achieve higher power and/or expanded system functions
- 1RU height, 19" (MGX-style) wide; rack-mounted



*\*Shelf shown here populated with PSU and shelf controller*

### Specifications

Electrical	
Input Voltage	190 - 305 Vac and 300 - 440 Vdc for each phase to return. Can accommodate Wye, Delta, Single Phase or DC inputs, depending on the wiring of the 7 pin input cable whip.
Input Current	16 A per pin within input connector
Output Current	174 A maximum
Output Voltage	60 Vdc <b>Range:</b> 42 Vdc to 64 Vdc, adjustable
Mechanical	
Dimensions (W x H x D)	19.49" x 1.67" x 33.07" (495 mm x 42.45 mm x 839.9 mm)
Form Factor	1 Rack Unit (RU) height, 19" rack mount width
Cooling	Forced air cooling, front to back airflow*
Weight	34 lbs (15.4 kg) without modules and shelf controller
Connections	
Input Connector	Positronic SP10RSSS1M2001/AA-2268
Output Connector	ORV3 150 A power clip

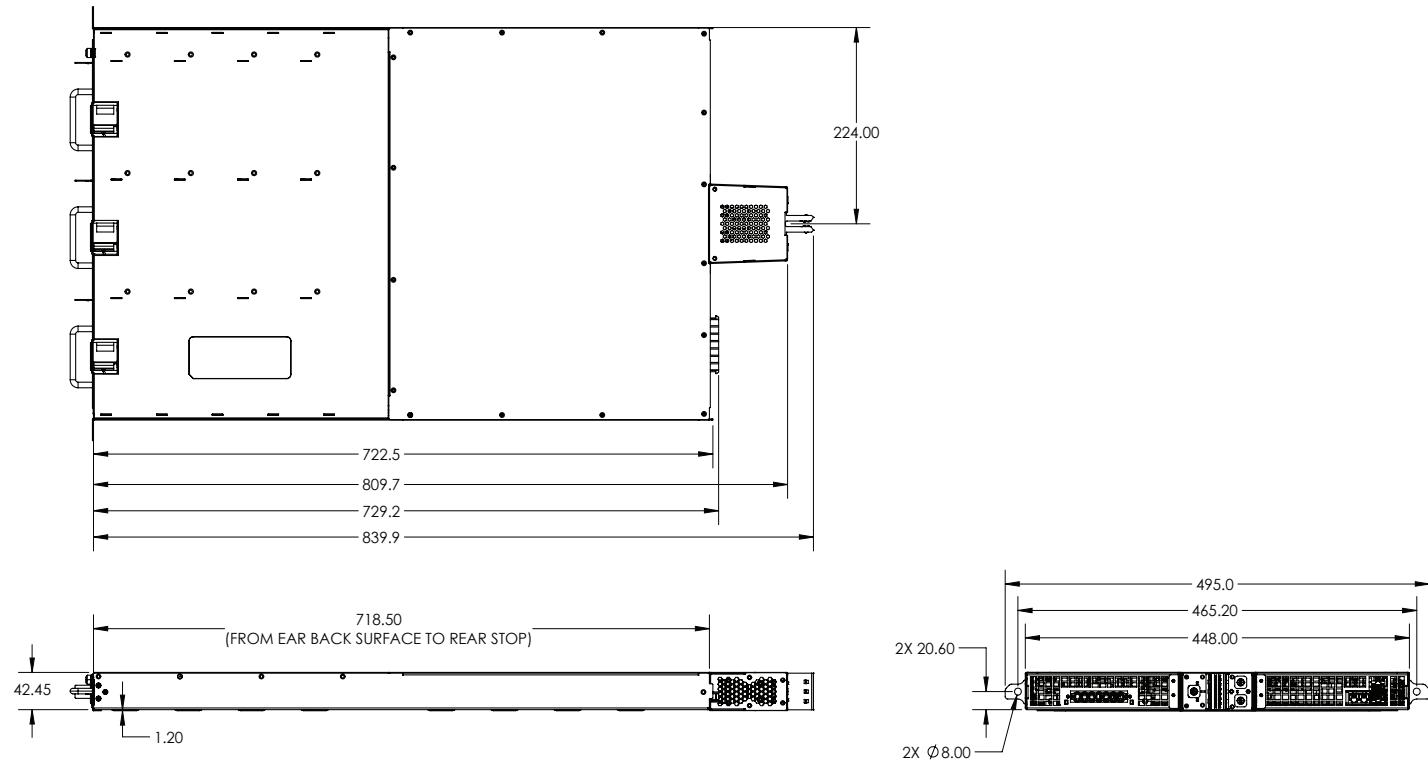
*\*Contact Power Innovations International for reverse airflow capability*

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**Environmental**

Operating Temperature	-40 °C to +50 °C
Storage Temperature	-40 °C to +85 °C
Humidity	10% to 90% relative (non-condensing)
Altitude	Operating: 0 m to 3000 m Storage: 0 m to 15000 m
EMI	CISPR 22 Class A -6dB

**General**

Safety Standards	Conforms to IEC 62368-1; CE marking
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**Product Dimensions (mm)**


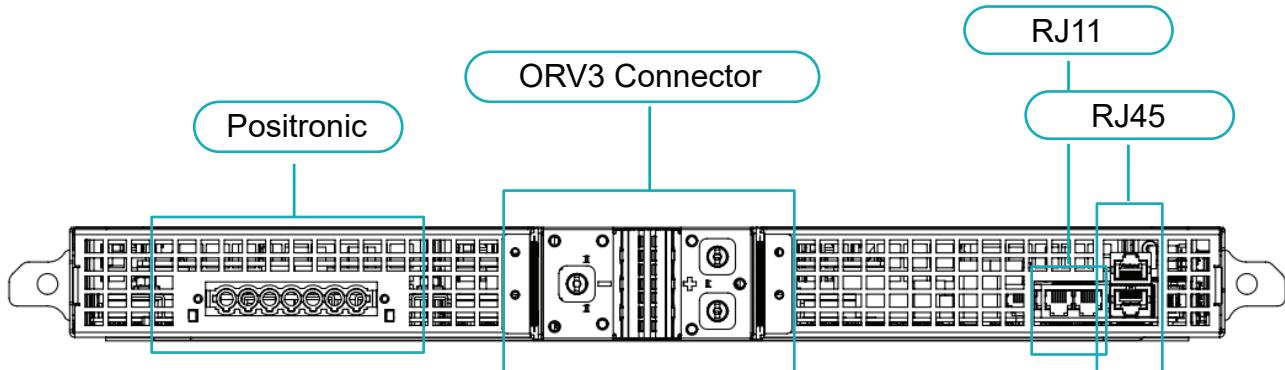
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## Front Panel



1	Shelf Controllers	Pii Shelf Controller Part Number: CM-12CM-P10U
2	PSU Modules	Pii PSU Part Number: PS-2332-02P1-LF

## Rear Panel



**Life Support Policy:** Power Innovations International (Pii) does not authorize the use of any of its products for use in life support devices or systems without the express written approval of an officer of the Company. Life support systems are devices which support or sustain life, and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

Pii reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Pii also reserves the right to change or update, without notice, any technical information contained in this bulletin.