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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 power management controller (PMC) 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 power management controller (PMC)
- 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 power management 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<br><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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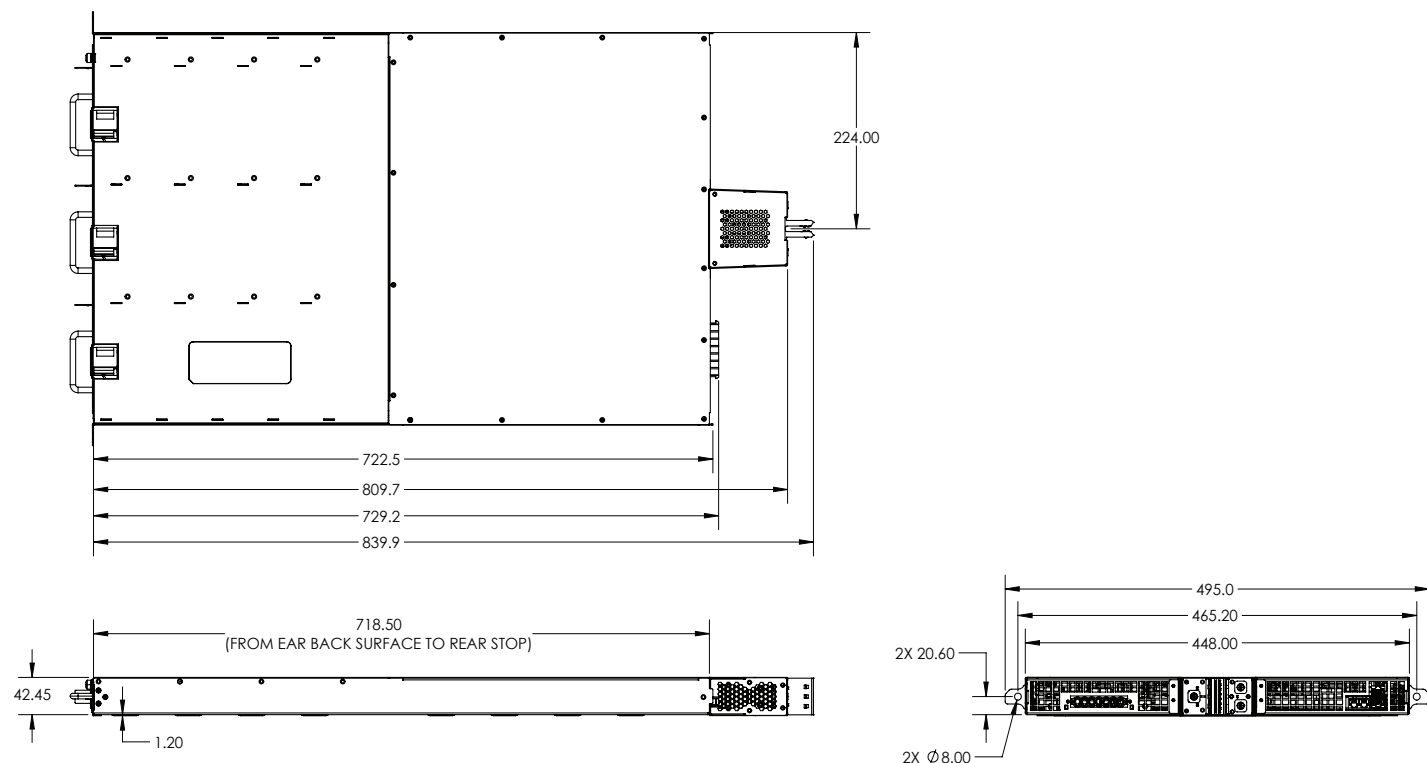
### Environmental

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| 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<br>Storage: 0 m to 15000 m |
| EMI                   | CISPR 22 Class A -6dB                               |

### General

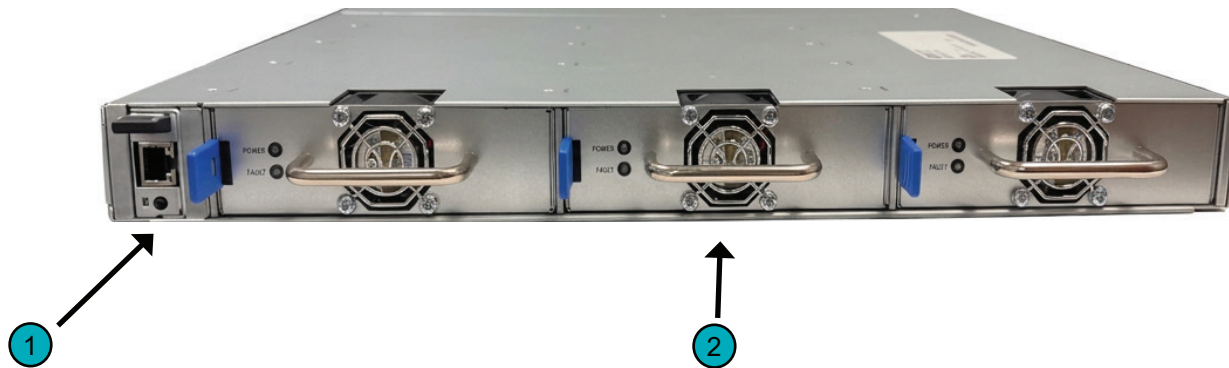
|                  |                                     |
|------------------|-------------------------------------|
| Safety Standards | Conforms to IEC 62368-1; CE marking |
|------------------|-------------------------------------|

### Product Dimensions (mm)



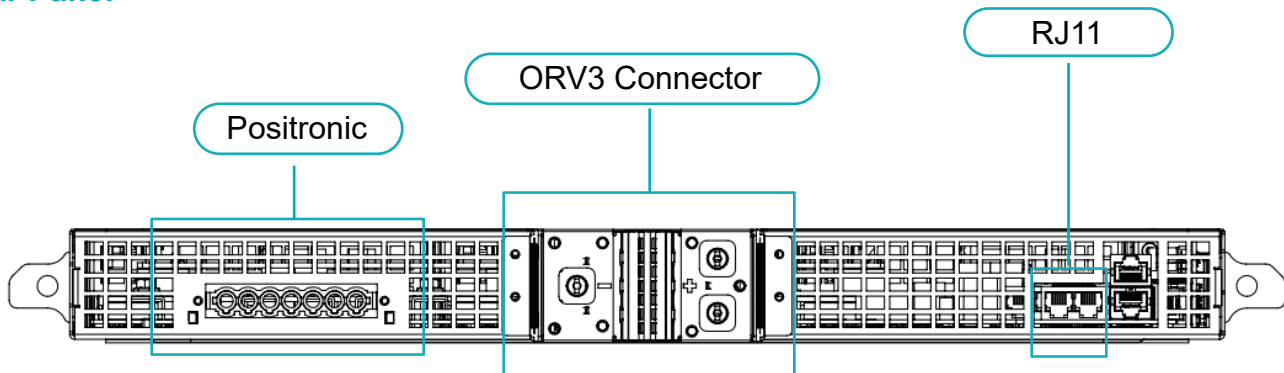
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## Front Panel



|   |                             |                                      |
|---|-----------------------------|--------------------------------------|
| ① | Power Management Controller | Pii PMC Part Number: CM-14CM-1Z      |
| 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.

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**Power Innovations International**  
1305 South 630 East  
American Fork, UT 84003  
United States  
[www.PowerInnovations.com](http://www.PowerInnovations.com)