

LITEON GROUP

**Description**

Power Innovations International's (Pii) 19" MGX 6.6 kVA inverter shelf accepts two of Pii's DC/DC converters and two of Pii's inverters to create a single 6.6 kVA rated power unit in 1RU height, 19" MGX-style rack enclosure. It can also fit within a standard ORV3 rack. This inverter shelf also holds Pii's power management controller (PMC) to provide the necessary communication for the modules within the shelf. 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**

- AC output of two inverters can be paralleled or independent
  - AC output is galvanically isolated from DC input
- Holds two 48 V to 350 V DC/DC converters and two inverters in series per shelf, along with one PMC
- Built-in capability to parallel multiple inverter shelves to achieve higher power and/or expand system functions
- Inrush control keeps disturbance on the 48V rail to a minimum during insertion
- 1RU height, 19" (MGX-style) wide; rack-mounted



*\*Shelf shown here populated with inverters, converters, and shelf controller*

**Specifications**

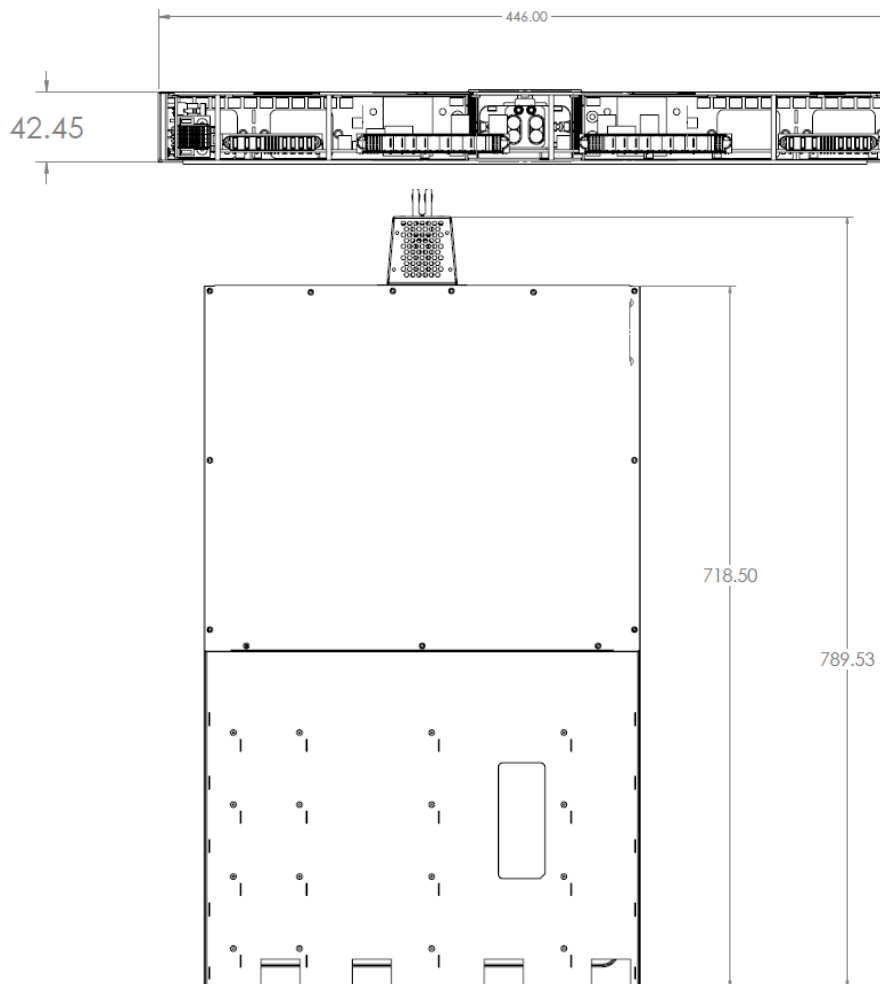
<b>Electrical</b>	
Input Voltage	48 Vdc nominal <b>Range:</b> 44 Vdc to 60 Vdc operating
Input Current	170 A Max
Output Power	6600 VA total power output (3.3 kVA for each inverter) 0.5 to 1.0 power factor
Output Voltage	240 Vac nominal <b>Range:</b> 200 Vac to 300 Vac adjustable
Output Current	28 A per shelf 14 A per inverter
Frequency	50 Hz or 60 Hz
Communication Protocol	Modbus RS-485 to devices within the shelf
<b>Mechanical</b>	
Dimensions (W x H x D)	17.55" x 1.87" x 28.54" (446 mm x 44.4 mm x 725 mm)
Cooling	Forced air cooling
Weight	34 lbs (15.4 kg) without DC/DC, inverters, or shelf controller
<b>Configurations</b>	
PF-2662-P20N	Holds Pii Power Management Controller (Part Number: CM-14CM-P10U)
<b>General</b>	
Safety Standards	Conforms to UL62368-1

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**Specifications (continued)**

Environmental	
Operating Temperature	-40 °C to +45 °C (at full load)
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
Connections	
Input	ORV3 150 A power clip
Output	Two C19 outlets for each inverter (four C19 outlets total) Protected by one 20 A circuit breaker for each inverter (two circuit breakers total)

**Product Dimensions (mm)**

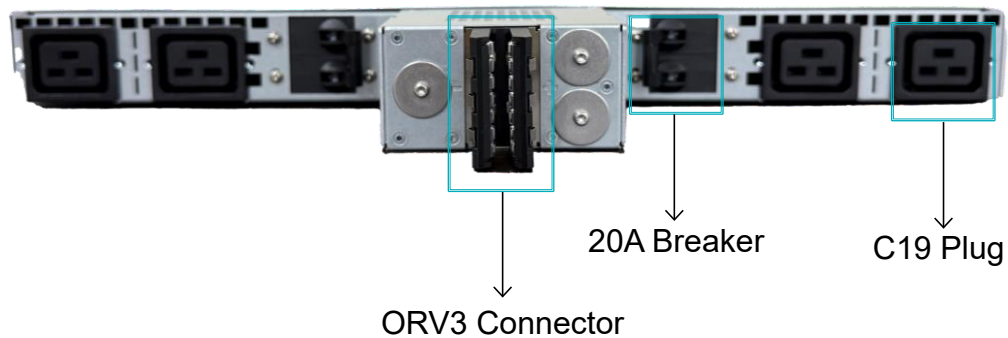


**Front Panel**



1	Shelf Controller	Pii Power Management Controller Part Number: CM-14CM-P10U
2	Inverter Modules	Pii Inverter Part Number: IM-2332-01P1-LF
3	DC/DC Modules	Pii DC/DC Part Number: DD-2352-01P1-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)