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Description

Power Innovations International's (Pii) 3.3 kVA power supply unit (PSU) is a rectifier that converts input power from high voltage DC bus to 48 Vdc or 60 Vdc. The rectifier module can be used to charge low voltage batteries or to provide a stable, low voltage bus to power equipment connected to 60 Vdc bus. Multiple PSUs can be arranged to operate in parallel, and this rectifier module supports Modbus RS-485 communication.

Features and Benefits

- 3.3 kVA power rating
- High-voltage DC input
 - **AC:** 120 V to 305 V
 - **DC:** 300 V to 450 V
- Low voltage DC output
 - **DC:** 60 V
- Active current sharing and droop for fast response
- 95% efficiency at rated power (97% peak)
- Paralleable in power shelves (Pii part number: PF-1103-P22N)
- Constant power and constant current protection
- Modbus RS-485 communication protocol



Specifications

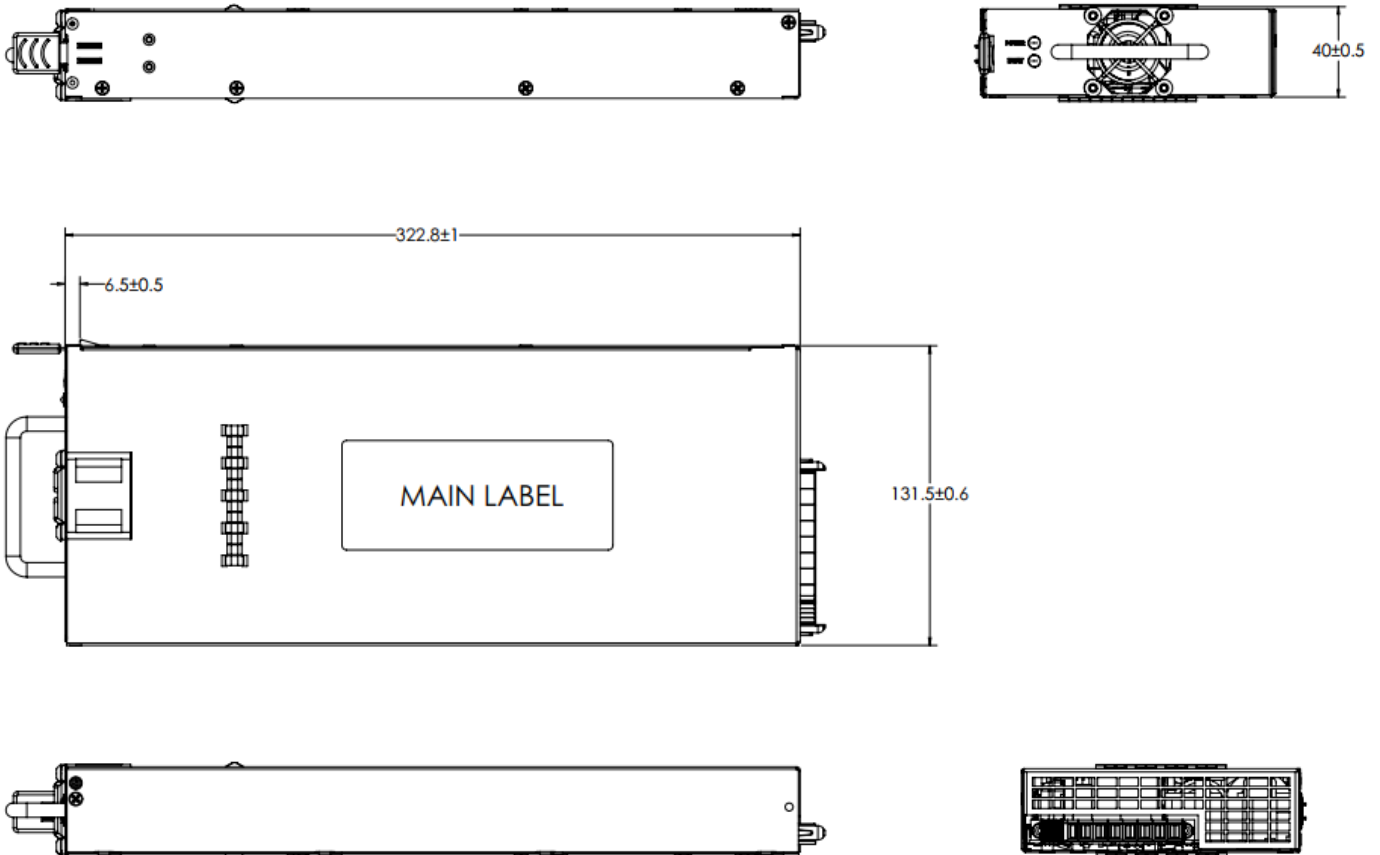
Electrical	
Input Voltage	AC: 120 V to 305 V range DC: 300 V to 450 V range
Input Current	17 A max
Output Power	3.3 kVA
Output Voltage	60 Vdc Range: 42 Vdc to 64 Vdc, adjustable
Output Current	58 A maximum
Efficiency	>95% at full load
Current Share Method	Droop and active current share
Communication Protocol	Modbus RS-485
Auxiliary Standby Supply	12 Vdc / 0.2 A
Mechanical	
Dimensions (W x H x D)	5.18" x 1.57" x 12.71" (131.5 mm x 40 mm x 322.8 mm)
Cooling	Forced air cooling
Weight	5.5 lbs (2.5 kg)

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Specifications (continued)

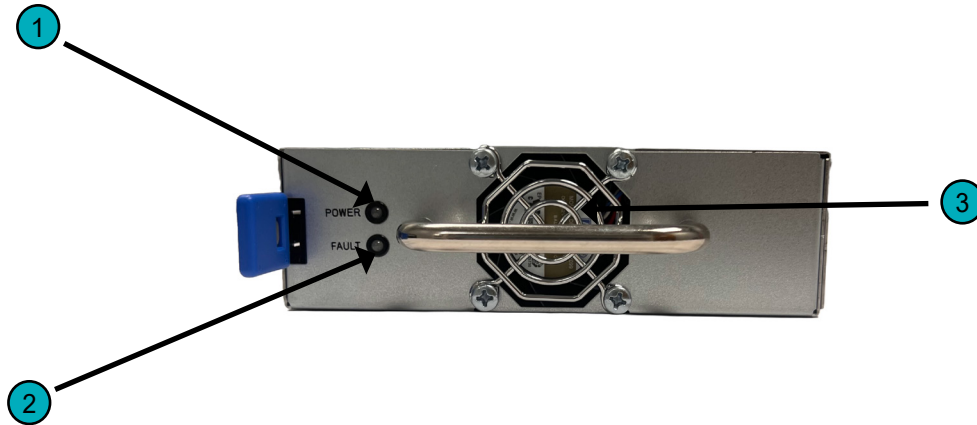
Environmental	
Operating Temperature	-40 °C to +65 °C at full load; de-rated from +65 °C to +85 °C
Storage Temperature	-40 °C to +85 °C
Humidity	10% to 90% relative (non-condensing)
Altitude	Operating: 0 m to 3000 m Storage: 0 m to 15000 m
EMI	CISPR 22 Class A -6dB
Configurations	
PS-2332-02P1-LF	Tab color: Light blue Airflow direction: Front-to-back airflow
PS-2332-02P2-LF	Tab color: Red Airflow direction: Back-to-front airflow
General	
Safety Standards	Conforms to IEC 62368-1; CE marking

Product Dimensions (mm)



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Front Panel



1	“POWER” LED	Output power indicator: green-colored LED
2	“FAULT” LED	PSU fault indicator: amber-colored LED
3	Fans	Cooling fans

Front Panel LED Status

Status	LED Green: Power	LED Amber: FAULT
Output Normal	Solid Green	Off
Storage Temperature	Blinking Green @ 2 Hz	Off
Output Disable/Fault	Off	Solid Amber
Output Disable/Firmware Update	Off	Blinking Amber @ 2 Hz

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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