

LITEON GROUP

## Description

Power Innovations International's (Pii) 3.3kVA Power Supply Unit (PSU) is a rectifier that converts AC input power to 350Vdc bus or 700Vdc bus. The rectifier module can be used to charge batteries or to provide a stable high voltage bus for other downstream power conversion, such as inverters. Multiple PSUs can be arranged to operate in parallel. Rectifier module supports Modbus RS-485 communication.

## Features and Benefits

- 3.3 kVA, with 0.8 to 1.0 power factor
- Single-phase AC input
  - **AC:** 208, 240 or 277 V nominal
- Two configurable output voltages: 350 V or 700 V nominal
- Output voltage droop for current sharing between PSU in large power systems (up to 200 kW)
- 95% efficiency at rated power (97% peak)
- Parallelable in power shelf (Pii part number: PF-1103-P22N)
- Constant power and constant current protection
- Modbus RS-485 communication protocol



## Specifications

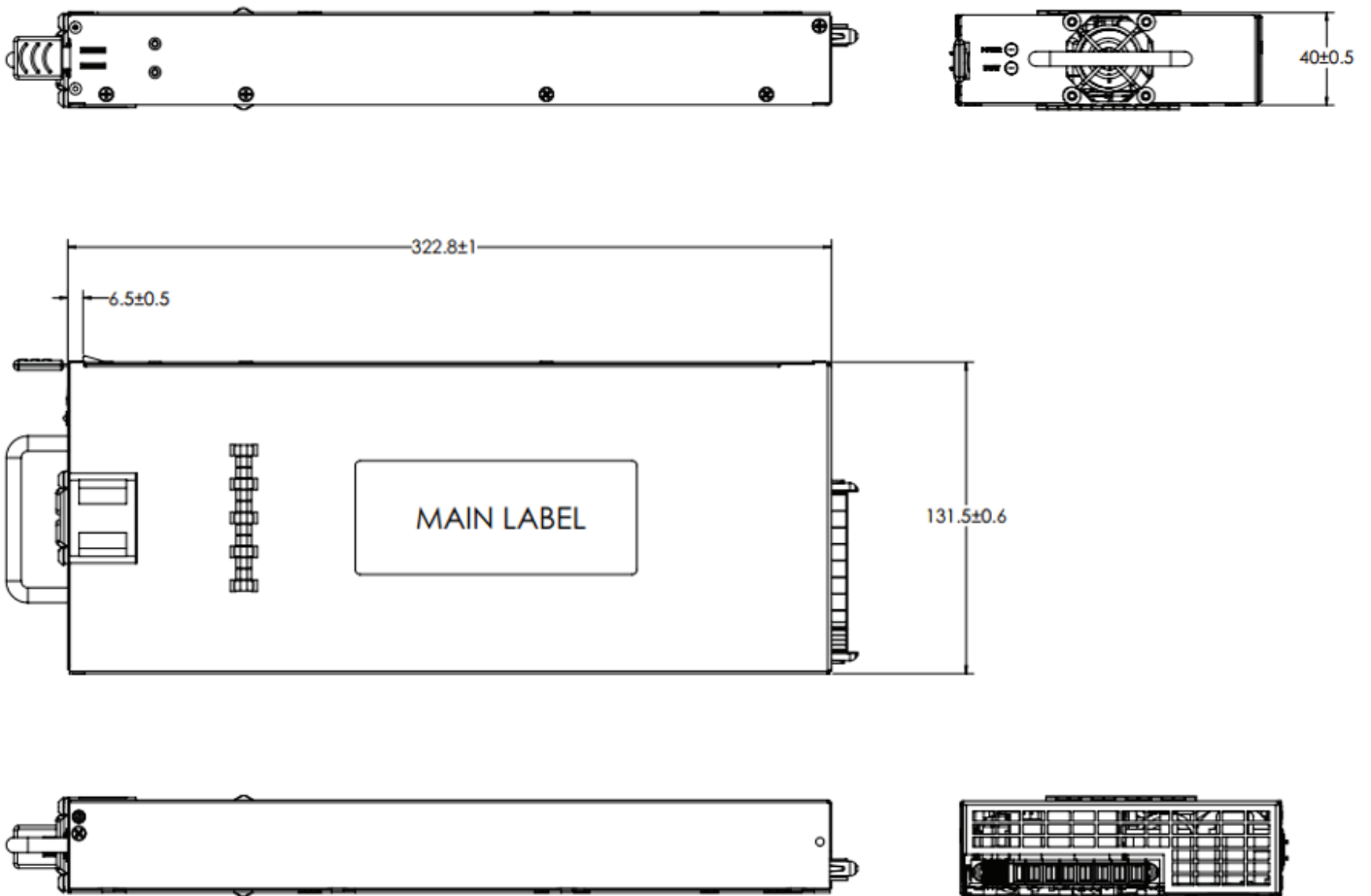
Electrical	
Input Voltage	AC: 120, 208 to 277 V nominal (120 – 305 Vac operating range)
Input Frequency	50 / 60 Hz; auto sensing
Input Power Factor at Full Load	> 0.99
Input Current	16.5 A max
Output Power	3.3 kVA
Output Voltage	250 – 770 Vdc
Output Current	10.5 A maximum at 350 Vdc range 5.25 A maximum at 700 Vdc range
Efficiency	>95% at full load
Current Share Method	Droop
Communication Protocol	Modbus RS-485
Auxiliary Standby Supply	12 V / 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)

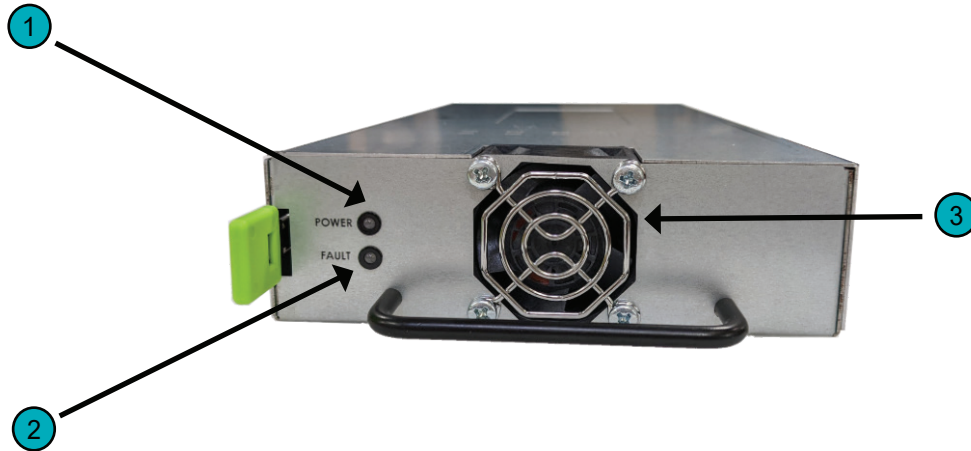
Environmental	
Operating Temperature	-40 °C to +55 °C at full load; de-rated from +55 °C to +85 °C
Storage Temperature	-40 °C to +85 °C
Humidity	10% to 90% relative (non-condensing)
Altitude	Operating: 0 m to 3000 m Storage: 0 m to 15000 m
EMI	CISPR 22 Class A -6dB
General	
Safety Standards	UL & CSA 62368-1 (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	<b>Solid Green</b>	Off
Output Disable/No Fault	<b>Blinking Green @ 2 Hz</b>	Off
Output Disable/Fault	Off	<b>Solid Amber</b>
Output Disable/Firmware Update	Off	<b>Blinking Amber @ 2 Hz</b>

**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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