

LITEON GROUP

Description

Power Innovations International's (Pii) 3.3 kW power supply unit (PSU) is a rectifier that converts photovoltaic (PV) input power to 48 Vdc or 60 Vdc. 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 or DC/DC converters. Multiple PSUs can be arranged to operate in parallel, and this rectifier module supports Modbus RS-485 communication.

Features and Benefits

- 3.3 kW PSU, with 0.8 to 1.0 power factor
- High-voltage DC input
 - 120 to 400 Vdc (**MPPT range**)
 - 150 to 450 Vdc (**Open Circuit Voltage range**)
- Active current sharing and droop for fast response
- 95% efficiency at rated power (97% peak)
- Parallelable in power shelves (Pii part number: PF-1103-P22N)
- Constant power and constant current protection
- Modbus RS-485 communication protocol



Specifications

Electrical	
Input Voltage	150 to 450 Vdc (Open Circuit Voltage range) 120 to 400 Vdc (MPPT range)
Input Current	16.5 A max
Output Power	3.3 kW
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)

LITEON GROUP

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

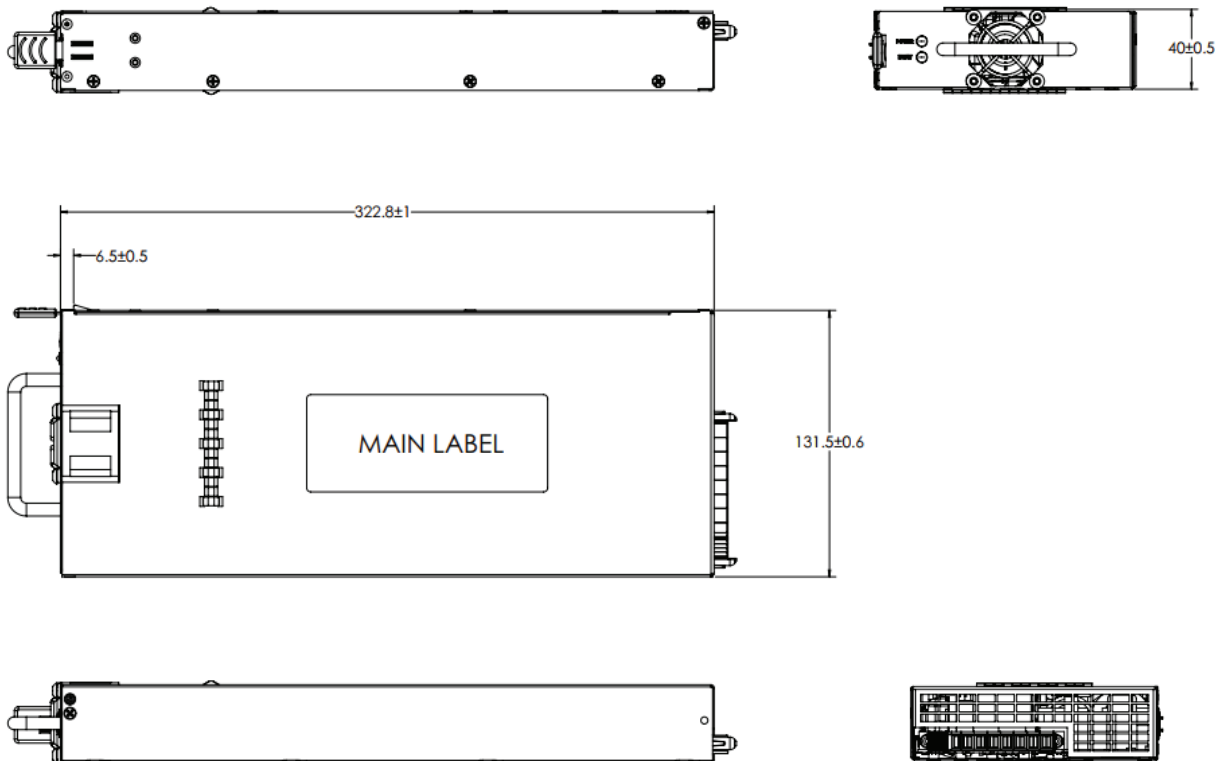
Configurations

PS-2332-02P3-LF	Tab color: Yellow Handle color: Silver Airflow direction: Front-to-back airflow
PS-2332-02P4-LF	Tab color: Yellow Handle color: Black Airflow direction: Back-to-front airflow

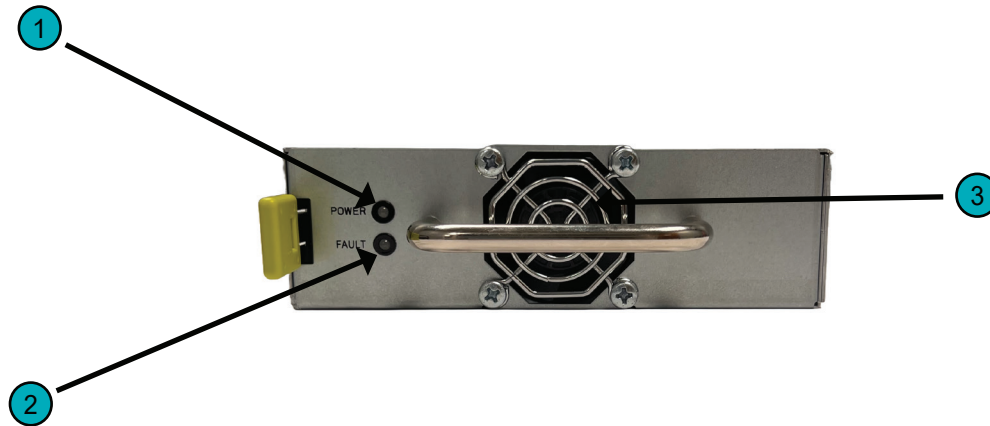
General

Safety Standards	Conforms to IEC/UL 62109-1
------------------	----------------------------

Product Dimensions (mm)



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.