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)
- Parallelable in power shelves (Pii part number: PF-1103-P22N)
- Constant power and constant current protection
- Modbus RS-485 communication protocol
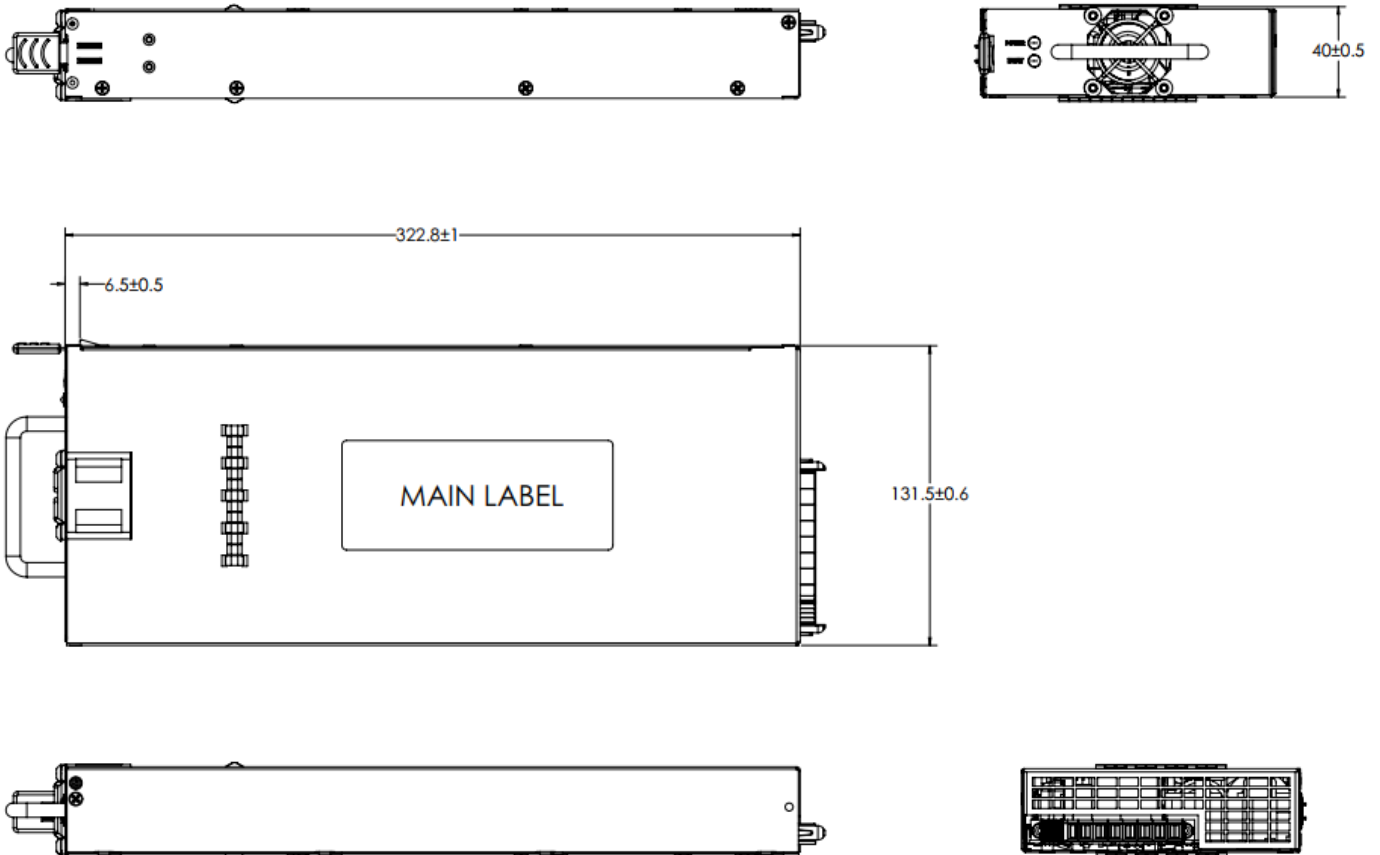
Specifications

Electrical	
Input Voltage	**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)

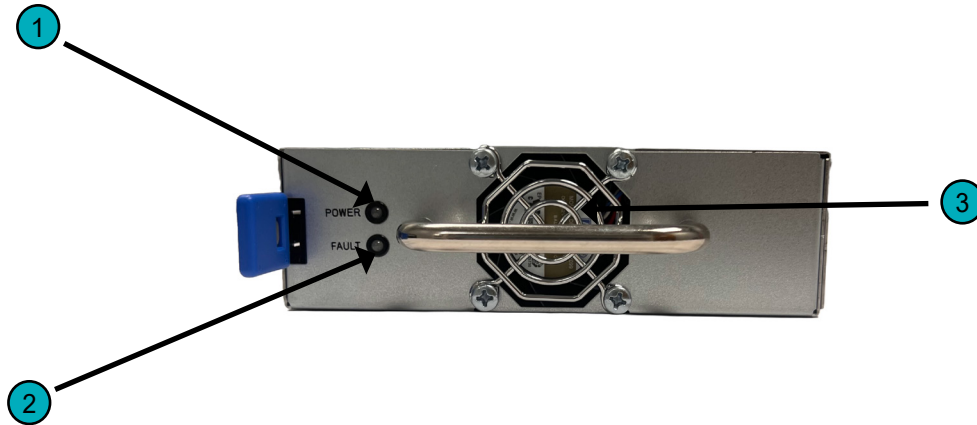## Specifications (continued)

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)

POWER INNOVATIONS INTERNATIONAL

LITEON GROUP

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**

Document No.: DATA130
Last Updated: February 24, 2025