

LITEON GROUP

Description

Power Innovations International's (Pii) 3.3 kVA inverter module converts high voltage DC input power to pure sine wave AC power. This inverter module can be configured to produce a 120/240 Vac split-phase voltage source or a 240 Vac single-phase voltage source. Multiple inverter modules can be arranged to operate in parallel, or they can be phase-shifted to create 3-phase power systems. This inverter module supports Modbus RS-485 communication.

Features and Benefits

- 3.3 kVA inverter, with 0.8 to 1.0 power factor
- Configurable via command from a shelf controller:
 - 120, 230, 240, or 277 V single-phase, or
 - 120/240 V split-phase
- Voltage source or current source
 - **Voltage mode:** pure sinewave output, 3% THD
 - **Current mode:** compliant with IEEE 1547
- 400 V nominal DC input
- 95% efficiency at rated power
- Parallelable in power shelves (Pii part number: PF-1103-P20N)
- Modbus RS-485 communication protocol



Specifications

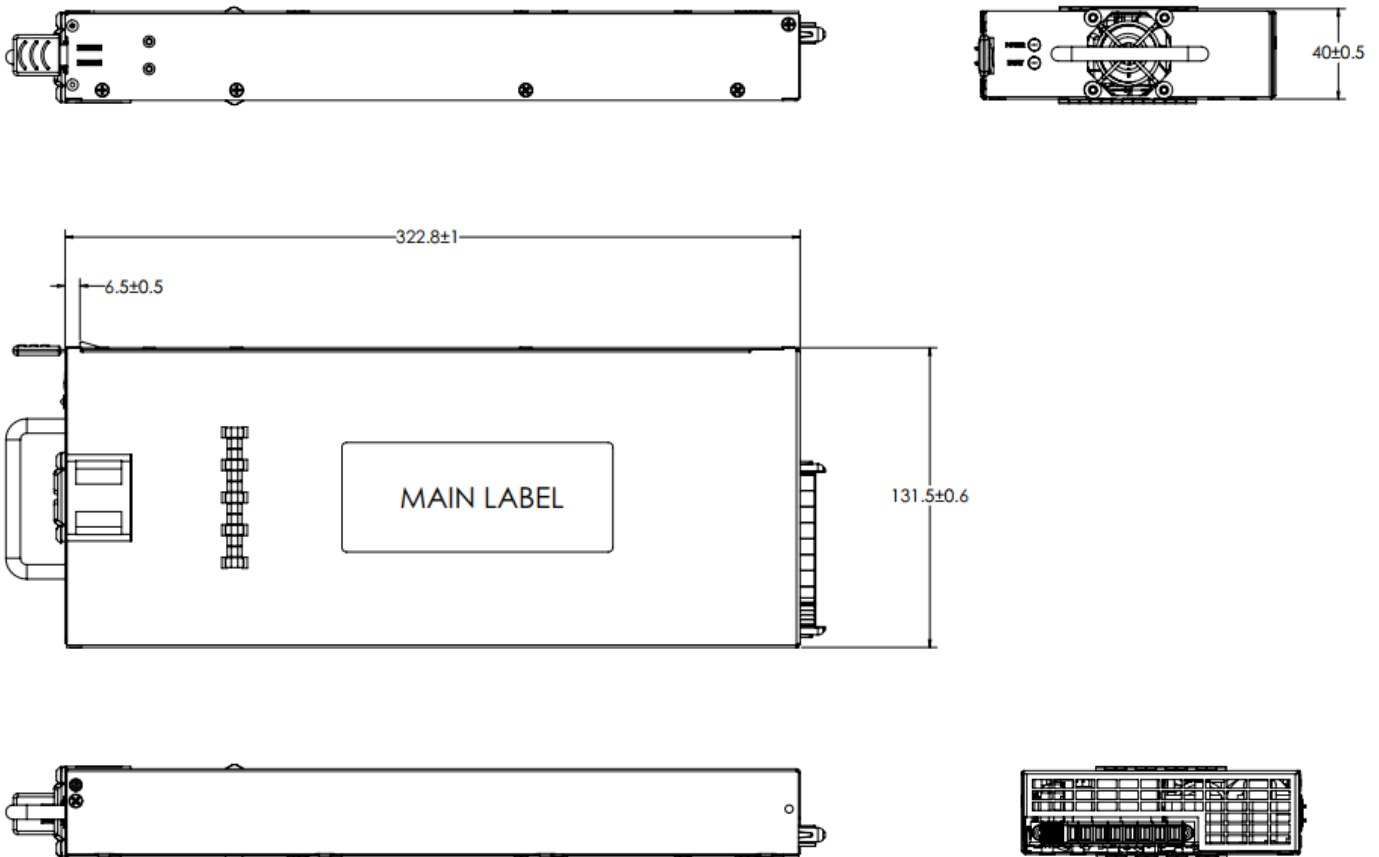
Electrical	
Input Voltage	290 Vdc - 440 Vdc
Input Current	12 A max
Output Power	3.3 kVA (with 0.8 to 1.0 PF)
Output Voltage	120 Vac - 277 Vac single-phase 120/240 V split-phase
Output Current	120 V single-phase: 27.5 A maximum 120 V / 240 V split-phase: 13.75 A maximum on each phase
Efficiency	>95%
THD	Voltage mode: <3% THD with resistive load Current mode: compliant with IEEE 1547
Crest Factor Load	2.5:1 maximum
Isolation	Galvanic isolation from DC input
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)

LITEON GROUP

Specifications (continued)

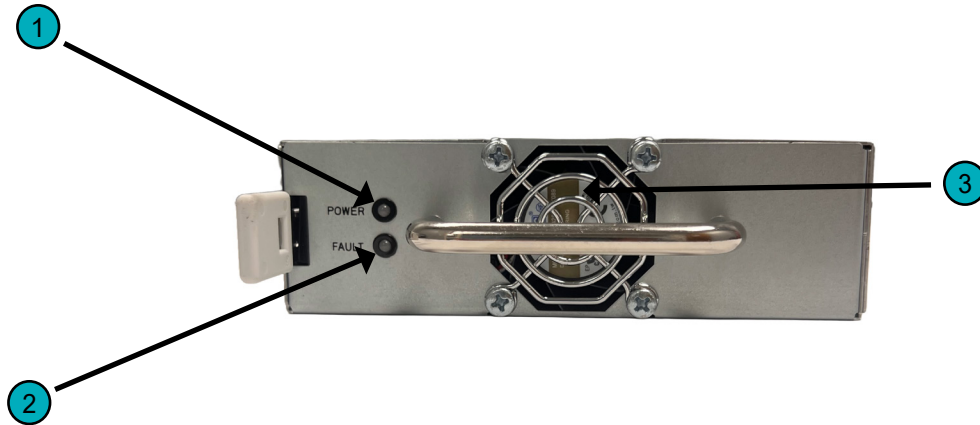
Environmental	
Operating Temperature	-40 °C to +55 °C at full load; de-rated from +55 °C to +85 °C
Storage Temperature	-40 °C to +85 °C
Humidity	10% to 90% relative (non-condensing)
Altitude	Operating: 0 m to 3000 m Storage: 0 m to 15000 m
EMI	CISPR 22 Class A -6dB
Configurations	
IM-2332-01P1-LF	Tab color: Black Airflow direction: Front-to-back airflow
IM-2332-01P3-LF	Tab color: White Airflow direction: Back-to-front airflow
General	
Safety Standards	Conforms to UL1741; CE marking

Product Dimensions (mm)



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

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.

Document No.: DATA119
Last Updated: February 24, 2025

Power Innovations International
1305 South 630 East
American Fork, UT 84003
United States
www.PowerInnovations.com