

LITEON GROUP

Description

Power Innovations International's (Pii) 800 V 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
- 800 V nominal DC input
- 95% efficiency at rated power
- Parallelable in power shelves (Pii part number: PF-1103-P21N) for UL 1741
- Modbus RS-485 communication protocol



Specifications

Electrical	
Input Voltage	520 Vdc - 900 Vdc
Input Current	6 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)

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Specifications (continued)

Environmental

Operating Temperature	-40 °C to +50 °C at full load; de-rated from +50 °C to +75 °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

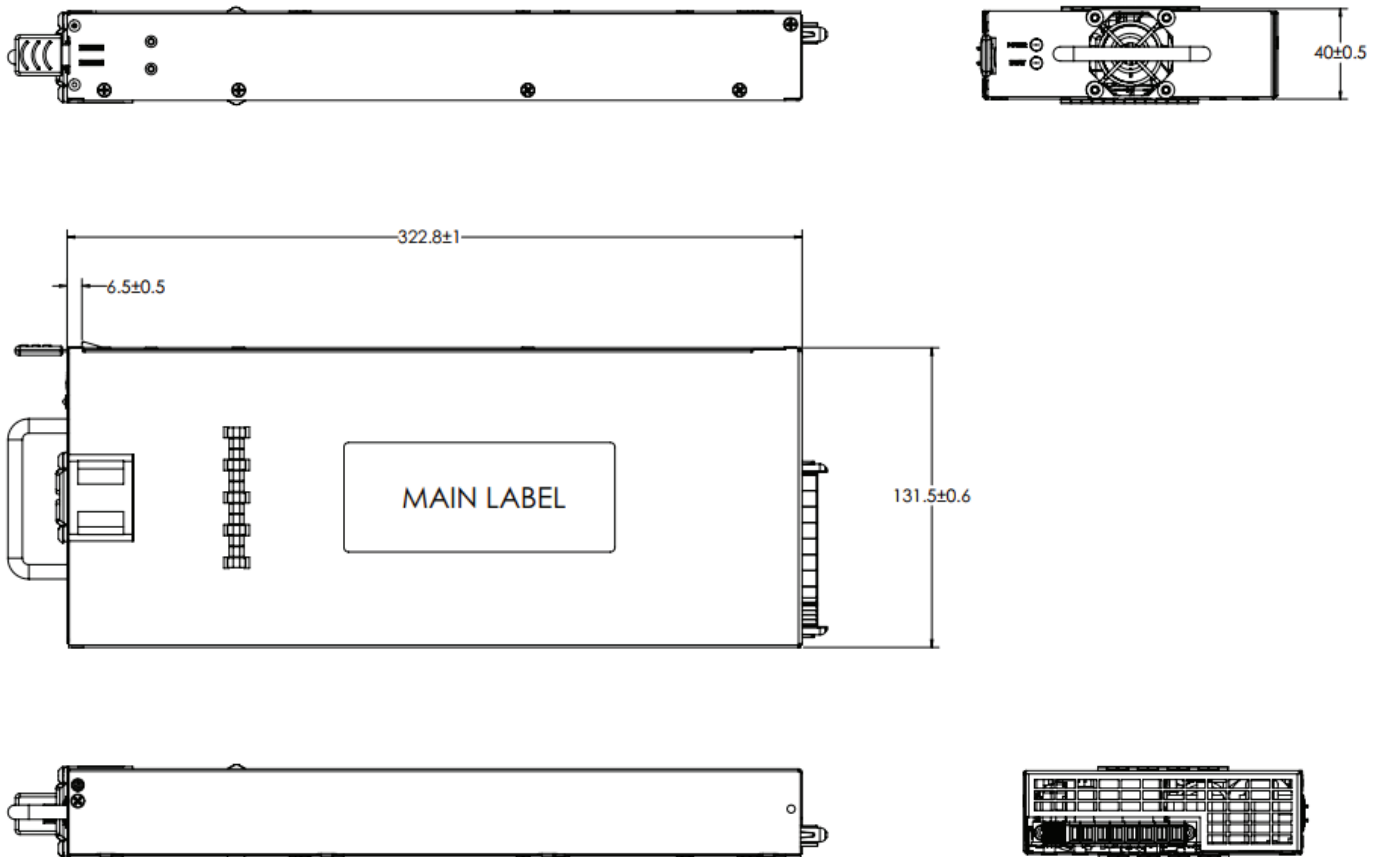
Configurations

IM-2332-01P2-LF	Tab color: Green Airflow direction: Front-to-back airflow
IM-2332-01P4-LF	Tab color: Blue Airflow direction: Back-to-front airflow

General

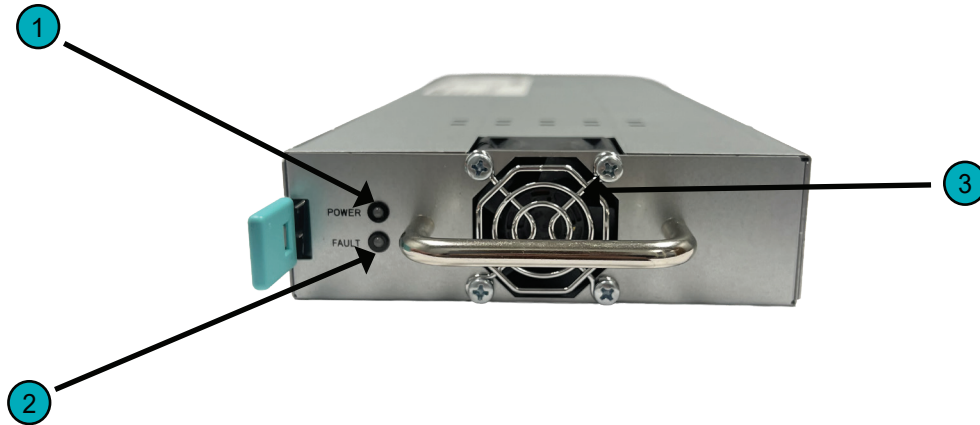
Safety Standards	Conforms to UL1741; CE marking
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Product Dimensions (mm)



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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

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