

PHILIPS

Emergency Inverter

PI-50

Auto-dimming 50 VA Inverter



Leading the way in innovative design and greater ease of installation

Philips PI-50 is an emergency inverter designed for luminaires where installation of a standard emergency driver isn't practical. The slim form factor (21.90" x 3.58" x 1.32") and simple wiring allows for easy installation. Sinusoidal output voltage and automatic dimming of luminaires up to 300 W means exceptional compatibility and flexibility. The PI-50 emergency lighting inverter works in conjunction with non-dimmable luminaires up to 50 VA or 0-10V dimmable luminaires up to 300 W to create an emergency lighting system when a standard emergency driver will not.

PI-50 50 VA Sinusoidal Output Auto-Dimming Inverter

Dimming Application greater ease of installation

The PI-50 features automatic 0-10V dimming control. This patented dimming capability allows a lighting load with up to a 300 W maximum input power to be dimmed to a 50 VA maximum emergency output power. The emergency mode output dimming voltage is automatically controlled by the PI-50 electronic circuitry to maintain up to 50 VA output during the loss of AC power. The PI-50 passes through the normal room switched AC mains and dimming controls during normal operation (AC mains on) so normal dimming operation of the fixture is not affected.



Key Benefits

- Automatic dimming (0 to 10V) of connected load
- Automatic code-compliant testing (Self-testing)
- Automatic load monitoring after commissioning (new UL 924 requirement)
- Meets CEC Title 20 (California Energy Commission) efficiency standards.
- Works with LED and fluorescent fixtures
- Ideal for (but not limited to) UFO highbay luminaires
- Compatible with AC (line voltage) driven TLED lamps
- Remote-mounting up to 250 feet maximum

Dimensions

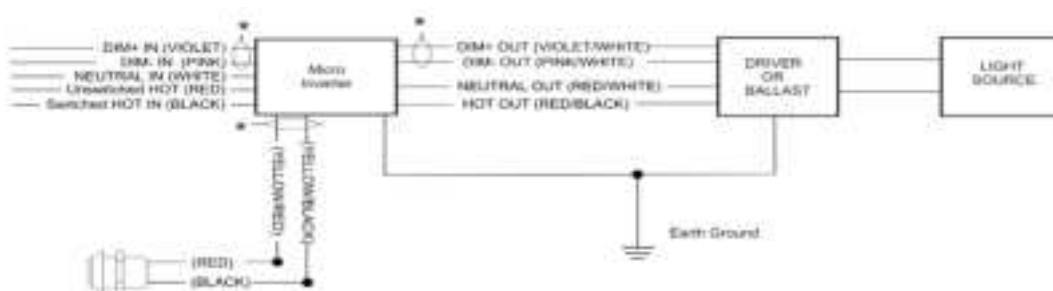
21.90" x 3.58" x 1.32" (556 mm x 91 mm x 33.5 mm)

Mounting center 21.50" (546 mm)

Flexible Conduit - 24" length; 3/8" Trade Size



Wiring Schematic



PI-50 50 VA Sinusoidal Output Auto-Dimming Inverter

Relevant Part Numbers

Part Number	12 NC Number	Description
PI50J1UK50C1ADI1	913702494301	Metal housing with conduit
PMBPI2550	913702494401	Optional Mounting Bracket



Specifications

UL Listed for US and Canada	Listed to UL924 and tested to CSA 22.2, No. 141. For Field or Factory Installation (Indoor and Damp)
Maximum Connected Load	300 W (0-10V dimmable) / 50 VA (non-dimmable)
Maximum Output Power	50 VA into load
Illumination Time	90 Minutes
AC Input Voltage and Current	120 through 277VAC, 50/60 Hz, 100 mA (charging)
Surge Withstand	4 kV (ANSI C82.77-5)
Recharge Time	36 Hours
Charging Indicator Light / Test Switch	Bi-color Plenum Rated Integrated LED Test Switch
Battery	Maintenance-Free Li-ion Battery
Output Voltage, Emergency	120 VAC \pm 10%
Output Frequency	60 Hz, \pm 5%
Dimming	0-10V
Transfer Time	Approximately 2 to 5 seconds
Temperature Rating (Ambient)	32 to 122°F (0-50°C)
Temperature Rating (Tcase)	Case Tc (max): 65°C
Dimensions	21.90" x 3.58" x 1.32" (556 mm x 91 mm x 33.5 mm) Mounting center 21.5" (546 mm)
Weight	6.0 lbs. (2.72kg)
Warranty	5 years (NOT pro-rata)

Compatible TLEDs

The PI-50 is compatible with all Philips TLED Mains Fit (Type B) lamp, regardless of style and dimming type, provided the total lamp load remains under the inverter's Maximum Output Power rating (non-dimming).

Compatible Luminaires

The PI-50 is compatible with many Lightolier 3D Printed luminaires including the IHB, PM and BAL Series. Check the specific luminaire power rating to confirm compatibility for your application.

For more information please visit www.philips.com/ledlamps or www.3dprinted.lighting.lightolier.com/en/us/.



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Signify North America Corp.
400 Crossing Boulevard,
Bridgewater, NJ 08807
Telephone 800-555-0050

Signify Canada Ltd.
281 Hillmount Road,
Markham, ON, Canada L6C 2S3
Telephone 800-668-9008

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