

The Philips logo, featuring the word "PHILIPS" in a bold, blue, sans-serif font.

Emergency

UL Type A+B / B



Comprehensive range of emergency lighting solutions for Type B and A+B TLED lamps

Philips Emergency Lighting Inverters are a great solutions for dimmable and non-dimmable bypass Type B and hybrid Type A+B TLED lamps where a standard emergency driver are not compatible. Models are available with and without a conduit (PTB15D) for installation inside or remote from the fixture, and a maximum output power of 50W (PI-50) is capable of driving multiple lamps or multiple fixtures in the emergency mode.

MainsFit and FlexFit Emergency Solutions

PTB15D 15W Phase-Cut Dimmable Inverter

Dimming Application greater ease of installation

The PTB15D features a phase-cut dimming control output similar to the same dimmers used for incandescent and some LED retrofit lamps. This dimming capability allows a lighting load with up to a 15W maximum input power to be dimmed to a 12.5VA maximum emergency output power. The emergency mode output dimming voltage is automatically controlled by the PTB15D electronic circuitry to maintain up to 12.5VA output throughout the loss of AC power. The PTB15D passes the normal room switched/phase-cut AC mains during normal operation (AC mains on) so normal dimming operation of the fixture is not affected.



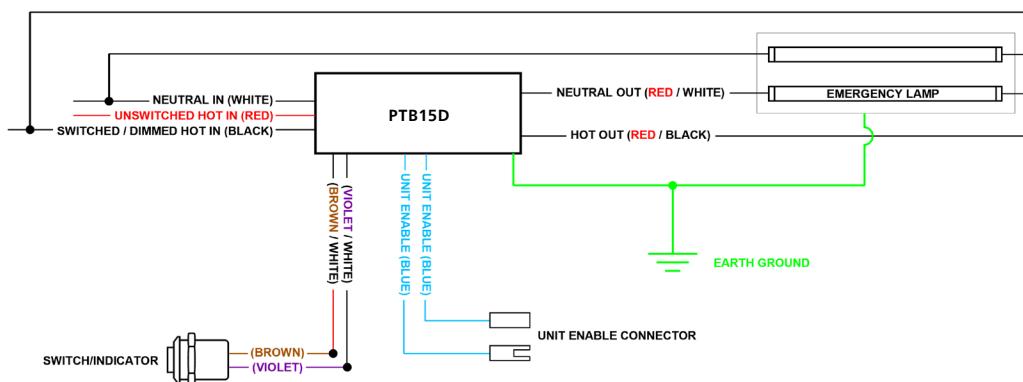
Two Models Available

Part Number	12 NC Number	Description
PTB015B2UK45L1PDI1	913702489401	Metal housing without conduit
PTB015B2UK45C1PDI1	913702489501	Metal housing with conduit

Key Benefits

- Compatible with dimmable Type B TLED lamps (up to 15W)
- With the phase-cut dimming capability, it allows a lighting load with up to a 15W maximum input power to be dimmed to a 12.5VA maximum emergency output power
- The small size helps simplify installation, takes up less space and provides flexibility
- The phase-cut dimming control output is similar to the same dimmers used for incandescent and some LED retrofit lamps
- Works in Type B TLED applications when a standard emergency LED driver will not
- Use in field-installed TLED Type B retro-fit luminaires or factory luminaires
- Meets California Energy Commission Title 20 efficiency requirements
- Remote mounting up to 250 feet

Wiring Schematic



MainsFit and FlexFit Emergency Solutions

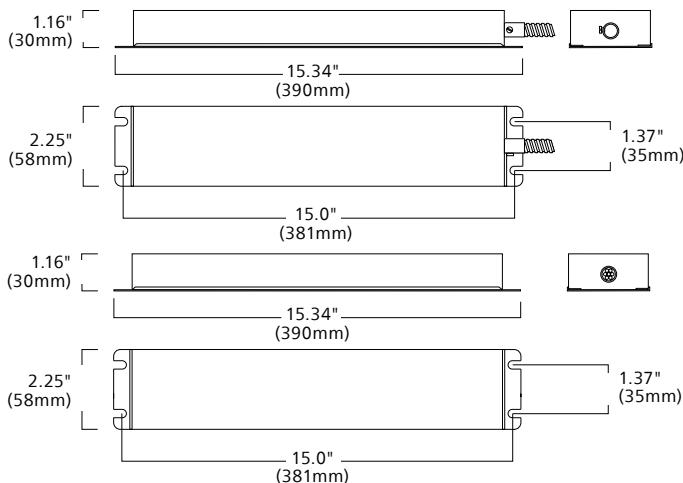
PTB15D 15W Phase-Cut Dimmable Inverter

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	15W
Maximum Output Power	12.5VA into load
Illumination Time	90 Minutes
AC Input Voltage and Current	120 through 277VAC, 50/60 Hz, 80 mA (charging)
Recharge Time	24 Hours
Charging Indicator Light / Test Switch	Integrated LED Test Switch
Battery	Maintenance-Free Li-ion Battery
Output Voltage, Emergency	120 VAC +/- 10%
Output Frequency	60 Hz, ± 5%
Dimming	Reverse Phase-Cut Type
Transfer Time	Up to 5 seconds
Temperature Rating (Ambient)	32° F to 113° F (0° C to 45° C)
Dimensions	15.34" L x 2.25" W x 1.16" H (390mm x 58mm x 30mm) Mount center - 15.0" (381mm)
Weight	2.72 lbs. (1.23kg)
Warranty	5 years (NOT pro-rata)

Dimensions

15.34" x 2.25" x 1.16" (390mm x 58mm x 30mm) /
mounting center - 15.0" (381mm)



Compatible TLEDs

6NC	Product Description	Model No.
588624	7.5T8/COR/24-5CCT/FF11/G/DIM 25/1	929003794504
588632	10.5T8/COR/36-5CCT/FF15/G/DIM 25/1	929003794604
588640	12T8/COR/48-5CCT/FF18/G/DIM 25/1	929003794704
589788	16PL-C/T/COR/42HV-5CCT/FF18/4P 50/1	929003807304
590224	9.5T8/MAS/48-835/MF17/G/DIM UE 25/1	929003794804
588608	9.5T8/MAS/48-840/MF17/G/DIM UE 25/1	929003794904
588616	9.5T8/MAS/48-850/MF17/G/DIM UE 25/1	929003795004
579672	14.5T8/COR/48-5CCT/MF18/G/DIM 25/1	929003540104
563452	9.9T8/COR/48-835/MF15/G 10/1	9290024837
563460	9.9T8/COR/48-840/MF16/G 10/1	9290024838
563478	9.9T8/COR/48-850/MF16/G 10/1	9290024839
563486	12T8/COR/48-830/MF17/G 10/1	9290024840
563494	12T8/COR/48-835/MF17/G 10/1	9290024841
563502	12T8/COR/48-840/MF18/G 10/1	9290024842
563510	12T8/COR/48-850/MF18/G 10/1	9290024843
563528	14.5T8/COR/48-830/MF20/G 10/1	9290024844
563536	14.5T8/COR/48-835/MF20/G 10/1	9290024845
563544	14.5T8/COR/48-840/MF21/G 10/1	9290024846
563551	14.5T8/COR/48-850/MF21/G 10/1	9290024847
575480	10.5T8/MAS/48-835/MF15/P 10/1	9290023251
575498	10.5T8/MAS/48-840/MF16/P 10/1	9290023252
575506	10.5T8/MAS/48-850/MF16/P 10/1	9290023253
575514	14.5T8/MAS/48-830/MF20/P 10/1	9290023254
575522	14.5T8/MAS/48-835/MF20/P 10/1	9290023255
575530	14.5T8/MAS/48-840/MF21/P 10/1	9290023256
575548	14.5T8/MAS/48-850/MF21/P 10/1	9290023257

Please refer to www.philips.com/ledlamps for more information.

For more information on Philips' limited warranty please visit www.philips.com/warranties.

MainsFit and FlexFit Emergency Solutions

PI-25 & PI-50 Sinusoidal Output Auto-Dimming Inverters

Exceptional Compatibility, power, and flexibility

The PI-25 and PI-50 features a pure sinusoidal 120Vac, 60 Hz output, making them exceptionally compatible with any UL Type B or A+B TLED lamp load. High output power and long remote mounting distance make them an ideal solution for multiple lamps in a single luminaire or multiple lamps across many luminaires.

Additionally, for 0-10V dimming applications, the patented automatic dimming capability allows connection of a lighting load with up to a 320 W maximum to be dimmed to 50 VA during a power failure. Under normal conditions, normal AC and dimming controls are passed through so normal operation of the fixture(s) is not affected.

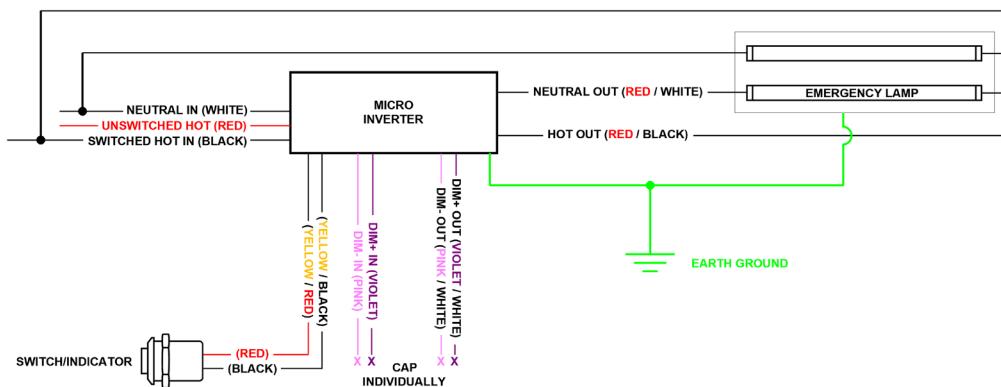


Part Number	12 NC Number	Description
PI25J1UK50C1ADI1	913702493701	25 VA EM Lighting Inverter, metal housing with conduit
PI50J1UK50C1ADI1	913702494301	50 VA EM Lighting Inverter, metal housing with conduit

Key Benefits

- Compatible with UL Type B or Type A+B TLED lamps loads up to 25 or 50 VA (PI-25 or PI-50 respectively)
- Also ideal for UFO highbay luminaires and other LED or fluorescent fixtures up to 200 W (PI-25) or 320 W (PI-50) (w/0-10V dimming).
- Automatic dimming of connected load when 0-10V dimming is used
- Automatic code-compliant testing (self-testing) with automatic load monitoring after commissioning (new UL 924 requirements)
- Meets CEC Title 20 (California Energy Commission) efficiency standards.
- Remote-mounting up to 250 feet maximum

Wiring Schematic (additional wiring diagrams on page 7)



MainsFit and FlexFit Emergency Solutions

PI-25 & PI-50 Sinusoidal Output Auto-Dimming Inverters

Specifications

PI-25

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	200 W (0-10V dimmable) / 25 VA (non-dimmable)
Maximum Output Power	25 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	24 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 +/- 10%
Output Frequency	60 Hz, ± 5%
Dimming	0-10V
Transfer Time	Approximately 2 to 5 seconds
Temperature Rating (Ambient)	32° F to 122° F (0° C to 50° C)
Temperature Rating (Tcase)	Case Tc (max): 65°C
Dimensions	15.0" x 3.58" x 1.32" (381 mm x 91 mm x 33.5 mm) Mounting center 14.55" (370 mm)
Weight	5.0 lbs. (2.27kg)
Warranty	5 years (NOT pro-rata)

PI-50

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	320 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 ± 10%
Output Frequency	60 Hz, ± 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-25 and PI-50 are compatible with all Philips MainsFit (ballast bypass UL Type B) and FlexFit (hybrid UL Type A+B) lamps, regardless of style and dimming type, so long as the total lamp load remains under the inverter's Maximum Output Power rating.

MainsFit and FlexFit Emergency Solutions

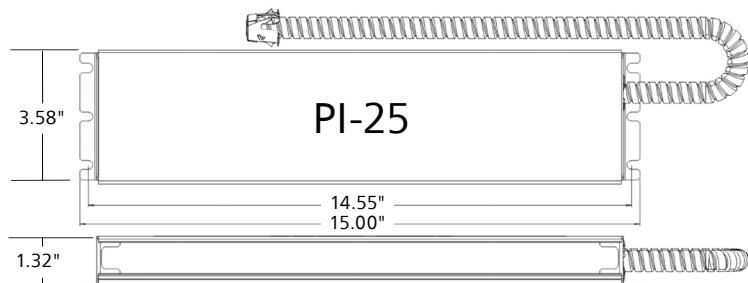
PI-25 & PI-50 Sinusoidal Output Auto-Dimming Inverters

Dimensions

PI-25

15.0" x 3.58" x 1.32" (381 mm x 91 mm x 33.5 mm)
Mounting center 14.55" (370 mm)

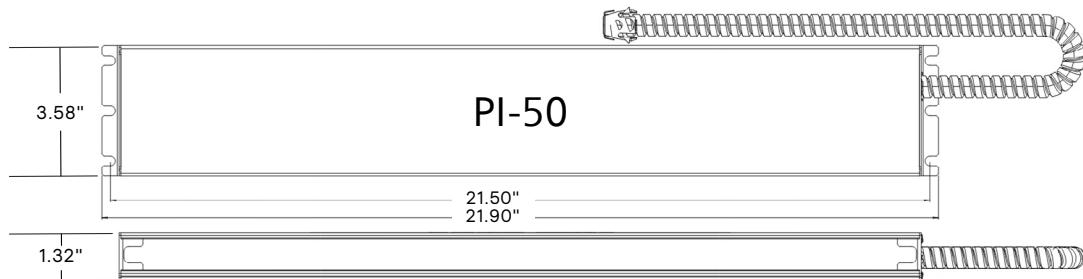
Flexible Conduit - 24" length; 3/8" Trade Size



PI-50

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

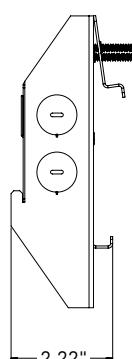
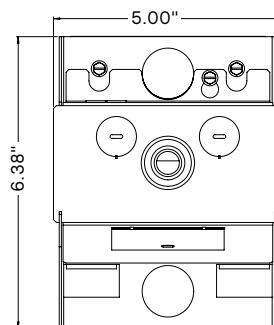


Optional Accessory

Mounting Bracket



Dimensions:



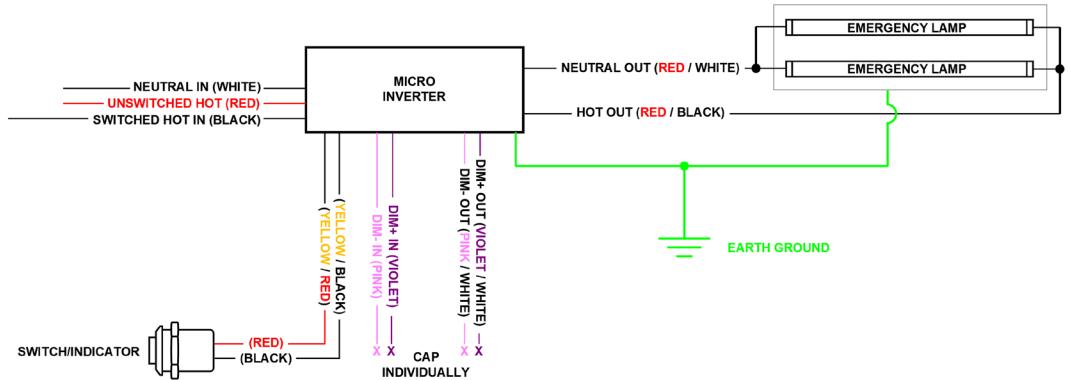
Part Number	12 NC Number	Description
PMBPI2550	913702494401	Optional Mounting Bracket

MainsFit and FlexFit Emergency Solutions

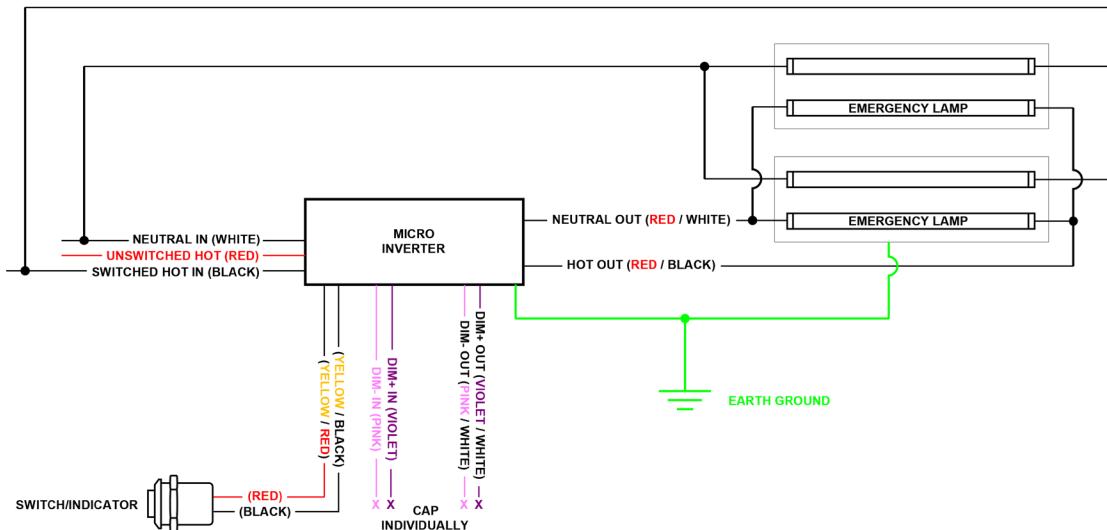
PI-25 & PI-50 Sinusoidal Output Auto-Dimming Inverters

Additional Wiring Schematic

2-Lamp Emergency



1 Inverter / 2 Luminaires / 1-Lamp Emergency per Luminaire



Please refer to www.philips.com/ledlamps for more information.

For more information on Philips' limited warranty please visit www.philips.com/warranties.

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