

PTi 50/220...240 I

POWERTRONIC INTELLIGENT PTi I | ECG for HID lamps, with cable clamp



Areas of application

- Shop lighting
- Health and fitness areas (in dry, corrosion-protected place)
- Effect and accent lighting

Product benefits

- Extended terminal section enables mains looping
- Screw-down cable clamps for reliable strain relief
- Long reliable life at maximum permitted temperatures
- Automatic safety shutdown of lamps in the event of a defect or at end of life (EoL)

Product features

- Energy Efficiency Index EEI: A2
- Supply voltage: 220...240 V
- Line frequency: 50...60 Hz
- RI suppression: to EN 55015/CISPR 15
- Safety: to EN 61347-2-12
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547

Product datasheet

Technical data

Electrical data

Lamp wattage	50 W
Line current	0.24 A ¹⁾
Ignition voltage	4.5 kVp
Operating frequency	0.200...0.240 kHz
System wattage	54.50 W
ECG efficiency	92 %
Input voltage	220...240 V
Voltage range	198...264 V
Mains frequency	50...60 Hz
Power factor λ	0.95 ²⁾
Inrush current	45 A ³⁾
Max. no. of ECGs on circuit breaker 10 A	7 ⁴⁾
Max. no. of ECGs on circuit breaker 16 A	13 ⁴⁾
Max. no. of ECGs on 16A MCB with EBN-OS	32 ⁴⁾
Maximum current for mains looping	16 A
Protective conductor current	0.3 mA
U-OUT	250 V
Max. working voltage between LH and LL	250 V
Max. working voltage betw. LL/LH & earth	250 V
Max. capacitance of wire ECG/lamp	120 pF

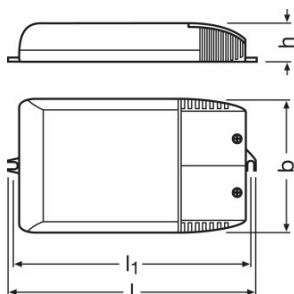
1) At 230 V_{AC}

2) Minimum

3) $t_{width} = 250 \mu s$ (measured at 50 % I_{peak})

4) Type B

Dimensions & weight



Length	171.0 mm
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Product datasheet

Width	83.0 mm
Height	32.0 mm
Mounting hole spacing, length	163.0 mm
Cable cross-section, input side	0.75...2.5 mm ²
Cable cross-section, output side	0.75...2.5 mm ²
Wire preparation length, input side	10...11 mm
Wire preparation length, output side	10...11 mm
Product weight	290.00 g

Colors & materials

Casing material	Plastic
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Temperatures

Ambient temperature range	-25...+55 °C
Maximum temperature at tc test point	80 °C

Lifespan

ECG lifetime	50000 h ¹⁾
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¹⁾ At maximum T_c / 10 % failure rate

Additional product data

Design / version	With cable clamp
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Capabilities

Maximum wiring length ECG/lamp	1.5 m
Overheating protection	Power reduction and switch off at T > 80 °C at the tc point
Overvoltage protection at 275...300 V	48 h ¹⁾
Overvoltage protection at 300...320 V	2 h ¹⁾
Overvoltage protection at 320...350 V	5 min ²⁾
ECG reset time	> 0.5 s
Cable types, input side	NYM-J 3x1.5 / NYM-J 3x2.5 / H05VV-F 3x1.5 / NHXMH-J 3x1.5 mm ²
Cable types, output side	SIHF-J 3x1.5 / SIHF-J 3x2.5 / SIHSI 3x1.0 mm ²
Dimmable	No
Restriction on ignition time	20 min
Suitable for fixtures with prot. class	I

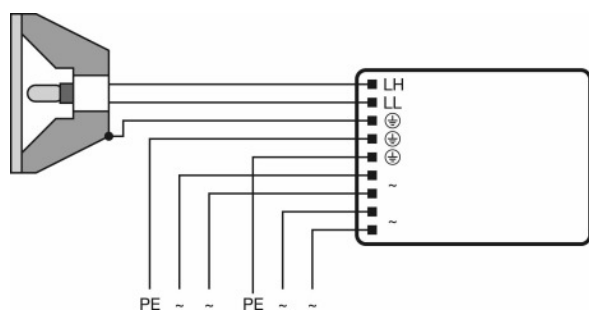
¹⁾ Control gear switches off after 40 s

²⁾ Control gear switches off or does not start

Certificates & standards

Approval marks – approval	ENEC 10 / VDE / VDE-EMC / GOST / C-Tick
Type of protection	IP20
EEL – Energy Label	A2
Standards	acc. to EN 61347-2-12/acc. to EN 55015/acc. to EN 61000-3-2/acc. to EN 61547/acc. to EN 62493

Wiring Diagram



Wiring diagram

Thermal characteristics

Ballast losses and lamp heat radiation can lead to heat accumulation in a completely closed case. Therefore it is necessary to ensure that the temperature at the measuring point t_c of the ECG does not exceed the maximum value.







Attention!

For safety reasons disconnect the device before replacing the lamp!

Download Data

File

Product datasheet

	Tender Documents Tender Document for POWERTRONIC EVG.eng
	Certificates PTi - PTo - PTg VDE-ENEC-Cert
	Declarations of conformity Declaration of conformity PTi 35, PTi 70
	Declarations of conformity VDE Declaration
	Declarations of conformity EC-Declartion of Conformity
	Declarations of conformity VDE Declaration of conformity

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321955869	PTi 50/220...240 I	Shipping carton box 20	436 mm x 374 mm x 110 mm	17.94 dm ³	6530.00 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.