PRODUCT DATASHEET
PTi 70/220…240 I

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



Areas of application

- Shop lighting
- Health and fitness areas (in luminaires with protection class IP66 or higher)
- 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

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TECHNICAL DATA

Electrical data

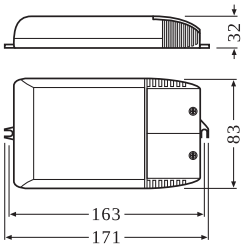
Nominal wattage	79.00 W
Nominal voltage	220…240 V
Nominal output voltage	250 V
Input voltage AC	198…264 V
U-OUT (working voltage)	250 V
Type of current	AC
Inrush current	45 A [1)]
Mains frequency	50/60 Hz
Power factor λ	0.95 [2)]
ECG efficiency	92 %
Max. ECG no. on circuit breaker 10 A (B)	7 [3)]
Max. ECG no. on circuit breaker 16 A (B)	13 [3)]
Operating frequency	0.200…0.240 kHz

1) t_{width} = 250 µs (measured at 50 % I_{peak})

2) Minimum

3) Type B

Dimensions & Weight



Length	171.00 mm
Mounting hole spacing, length	163,0 mm
Width	83.00 mm
Height	32.00 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

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Wire preparation length, output side	10…11 mm
Product weight	290.00 g

Colors & materials

Casing material	Plastic
Body material	Plastic

Temperatures & operating conditions

Ambient temperature range	-25…+50 °C
Maximum temperature at tc test point	80 °C
Max.housing temperature in case of fault	110 °C
Permitted rel. humidity during operation	5…85 % [1)]

1) Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 h [1)]

1) At maximum Tc / 10% failure rate

Capabilities

Dimmable	No
Overheating protection	Power reduction and switch off at T > 80 °C at the tc point
Max. cable length to lamp/LED module	1.5 m
Suitable for fixtures with prot. class	I
Suitable for emergency lighting	No

Certificates & Standards

Approval marks – approval	ENEC 10 / VDE / VDE-EMC / EAC / C-Tick
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
Protection class	I
Type of protection	IP20
Energy efficiency class	A2
EEI – Energy Label	A2

LOGISTICAL DATA

Temperature range at storage	-40…+85 °C

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Safety advice

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 of the ECG does not exceed the maximum value.

Attention!

For safety reasons disconnect the device before replacing the lamp!

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	334206_Technical guide - POWERTRONIC for HID-lamps (GB)
PDF	User instruction / safety instructions	590731_EAC - PTI I / PT-FIT I
PDF	Declarations of conformity	339884_Tender Document for POWERTRONIC EVG.eng
PDF	Declarations of conformity	VD EMC Certificate 40025469
PDF	Declarations of conformity	EU Declaration of Conformity 3363432
PDF	Certificates	VDE ENEC Certificate 40035813
PDF	Certificates	554891_EAC PT family

	CAD/BIM files	Document name
PDF	CAD data 3D PDF	313385_155x83x32 9900003

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4008321099501	Unpacked 1	165 mm x 31 mm x 83 mm	290.00 g	0.42 dm^3
4008321099518	Shipping box 20	436 mm x 110 mm x 374 mm	6207.00 g	17.94 dm^3

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.

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