# PRODUCT DATASHEET
# PTi 35/220…240 S MINI

## POWERTRONIC® INTELLIGENT PTi S | ECG for HID lamps, for installation in luminaires




### Areas of application

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

### Product benefits

- Long reliable life at maximum permitted temperatures
- Compact dimensions and low weight for small luminaire designs
- Excellent thermal behavior for very high limit temperatures $t_c$ and $t_a$
- 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

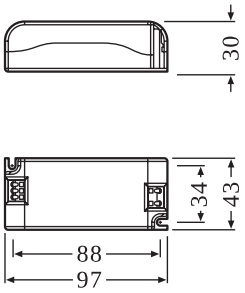
| | |
|---|---|
| Nominal wattage | 43.00 W |
| Nominal voltage | 220…240 V |
| Nominal output voltage | 250 V |
| Input voltage AC | 198…264 V |
| U-OUT (working voltage) | 250 V |
| Type of current | AC |
| Inrush current | 20 A [1)] |
| Mains frequency | 50/60 Hz |
| Power factor λ | 0.95 [2)] |
| ECG efficiency | 90 % |
| Max. ECG no. on circuit breaker 10 A (B) | 17 [3)] |
| Max. ECG no. on circuit breaker 16 A (B) | 28 [3)] |
| Operating frequency | 0.100…0.120 kHz |

1) $t_{width}$ = 170 µs (measured at 50 % $I_{peak}$)

2) Minimum

3) Type B

## Dimensions & Weight




| | |
|---|---|
| Length | 97.00 mm |
| Mounting hole spacing, length | 88,0 mm |
| Width | 43.00 mm |
| Height | 29.99 mm |
| Cable cross-section, input side | 0.5…1.5 $mm^2$ |
| Cable cross-section, output side | 0.5…1.5 $mm^2$ |


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| | |
|---|---|
| Wire preparation length, input side | 8.5…9.5 mm |
| Wire preparation length, output side | 8.5…9.5 mm |
| Product weight | 105.00 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 | 0,5 m |
| Suitable for fixtures with prot. class | I / II |
| 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 |
| 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!
Any conductive material must have a minimum distance of 4 mm to the front of the terminal block.
Installation by qualified electrician only.
Terminals for protective earth not suitable for any through connection.

## 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 | 590729_EAC - PTI S / PT-FIT S |
| PDF | Declarations of conformity | 339884_Tender Document for POWERTRONIC EVG.eng |
| PDF | Declarations of conformity | EU Declaration of Conformity 3363432 |
| PDF | Declarations of conformity | VD EMC Certificate 40025469 |
| PDF | Certificates | VDE ENEC Certificate 40035813 |
| PDF | Certificates | 554891_EAC PT family |

## LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4008321955906 | Unpacked<br>1 | 98 mm x 42 mm x 31 mm | 105.00 g | 0.13 $dm^3$ |
| 4008321955982 | Shipping box<br>20 | 228 mm x 78 mm x 208 mm | 2106.00 g | 3.70 $dm^3$ |

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

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