

PRODUCT DATASHEET

PTi 70/220...240 S

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

TECHNICAL DATA

Electrical data

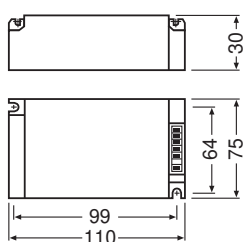
Nominal wattage	79.00 W
Nominal voltage	220...240 V
Nominal output voltage	250 V
Input voltage AC	198...264 V
U-OUT (working voltage)	250 V
Type of current	AC
Inrush current	45 A ¹⁾
Mains frequency	50/60 Hz
Power factor λ	0.95 ²⁾
ECG efficiency	92 %
Max. ECG no. on circuit breaker 10 A (B)	7 ³⁾
Max.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

¹⁾ $t_{width} = 250 \mu s$ (measured at 50 % i_{peak})

²⁾ Minimum

³⁾ Type B

Dimensions & Weight



Length	110.00 mm
Mounting hole spacing, length	99,0 mm
Width	75.00 mm
Height	30.00 mm
Cable cross-section, input side	0,5...2,5 mm ²
Cable cross-section, output side	0,5...2,5 mm ²
Wire preparation length, input side	10...11 mm
Wire preparation length, output side	10...11 mm
Product weight	255.00 g

Colors & materials

Casing material	Metal
Body material	Metal

Temperatures & operating conditions

Ambient temperature range	-25...+55 °C
Maximum temperature at tc test point	85 °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⁾
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¹⁾ At maximum T_c / 10% failure rate

Capabilities

Dimmable	No
Overheating protection	Power reduction and switch off at $T > 85$ °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
Protection class	I
Type of protection	IP20
Energy efficiency class	A2
EEL – 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.