OPTOTRONIC®

OT 42/220-240/350 E

Electronically stabilized 350mA constant current LED power supply

Technical Information

Edition:
October 2010
subject to change

Technical data

Reference:	**OT 42/220-240/350 E**
For LED modules:	350 mA LED
Line voltage, nominal:	220 – 240 V_{AC}
Line current, nominal:	0,21 A @ 230V
Line frequency:	50/60 Hz
Protection Class:	II
Nominal output current:	350 mA_{DC} +/- 5%
Output voltage:	< 120 V_{DC}
Maximum load:	42 W
Partial load:	15W – 42W
Power factor:	> 0,95 (full load) @ 230V > 0,90 (half load) @ 230V
Power losses:	6W max.
Full load efficiency:	87 % @ 230V
Stand by power consumption:	< 1 W
Perm. voltage fluctuations:	195 - 264 V_{AC}
DC voltage operation:	No
Inrush current:	33 A
Max. no. of ECG @ circuit breakers 10 A (B type):	7
Max. no. of ECG @ circuit breakers 16 A (B type):	12
Max. no. of ECG @ circuit breakers 16 A (B type): in combination with EBN-OS	30
Ambient temperature range, t_a:	-25 °C to +60 °C
Max. case temperature at t_c point:	80 °C
Designed ECG Lifetime:	50.000h (@ tc max) [1)]
Dimmable:	No

No-load proof:	Yes
Short circuit protection:	Automatic, reversible
Overload protection:	Automatic, reversible
Overheating protection:	Automatic, reversible
Wire cross section input/ouput line:	0,5 mm² – 2,5 mm² (20 AWG – 12 AWG), solid or flexible
Wire stripping:	10 - 11 mm
Terminal:	Mains (*grey/grey*) Equipotential Pin (*pink*) LEDModule (*red/black*)
Max. cable length:	2 m
Geometry (l x b x h):	133 x 77 x 48 mm³
Mounting holes:	123 mm
Weight:	~ 725 g
Fixture IP rating :	≥ IP 54 recommended (ECG compartment)
Fixture protection class:	Suitable for class I and class II fixtures
ECG outdoor protection against humidity:	PCB fully encapsulated + dust proof plastic housing
Safety: Performance: Radio interference: Harmonic content: Immunity:	IEC 61347-1, IEC 61347-2-13 IEC 62384 EN 55015:2006+A1:2007+A2:2009 IEC 61000-3-2 IEC 61547:1995+A1:2000
Vibration tested:	5 -150 Hz sine sweep, 2g acceleration
Surge:	L-N: 3kV, L/N – Ground: 4kV;
Galvanic insulation between primary and secondary side:	3,75 kVrms, SELV-equivalent
Approvals:	 

[1)] 10% failure rate

OPTOTRONIC®

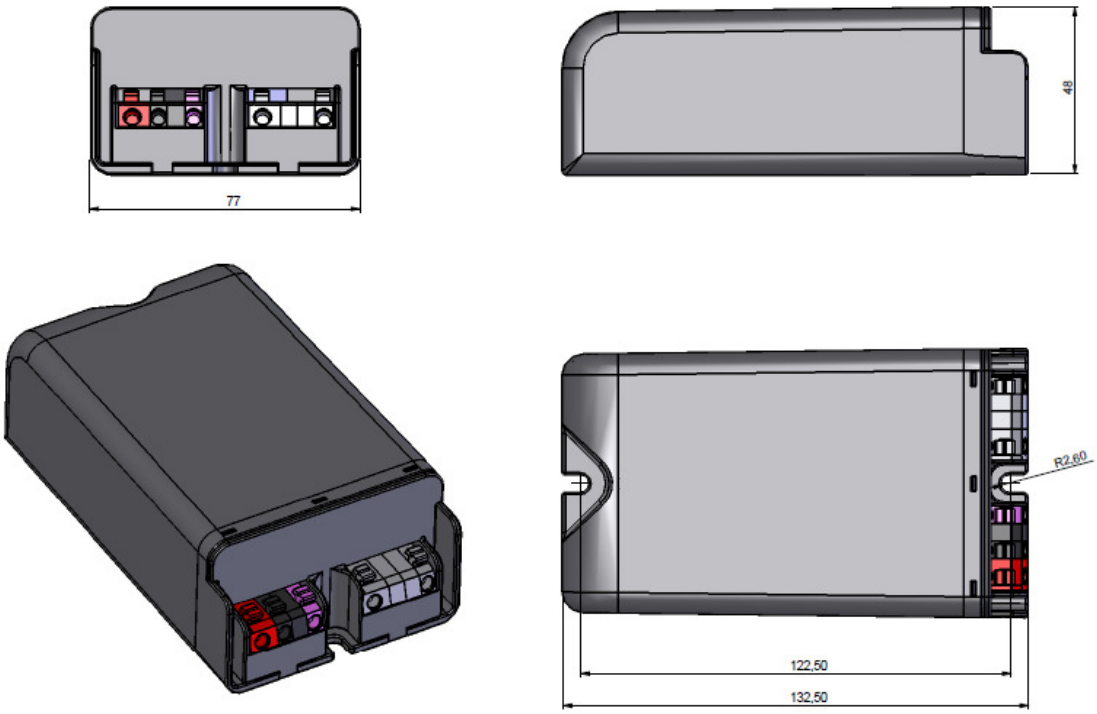
OT 42/220-240/350 E

Electronically stabilized 350mA constant current LED power supply

Technical Information

Edition:
October 2010
subject to change

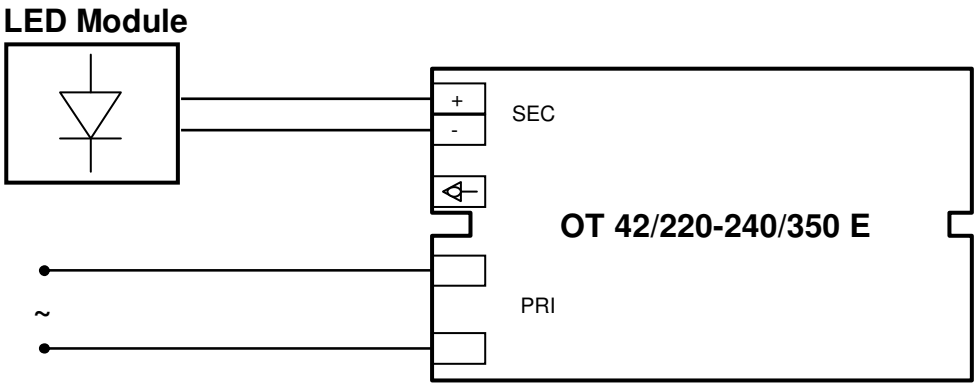
Geometry



Ordering information

	EAN 10 (1 pc)	EAN 40 (20 pcs)
OT 42/220-240/350 E	4008321421678	4008321421685

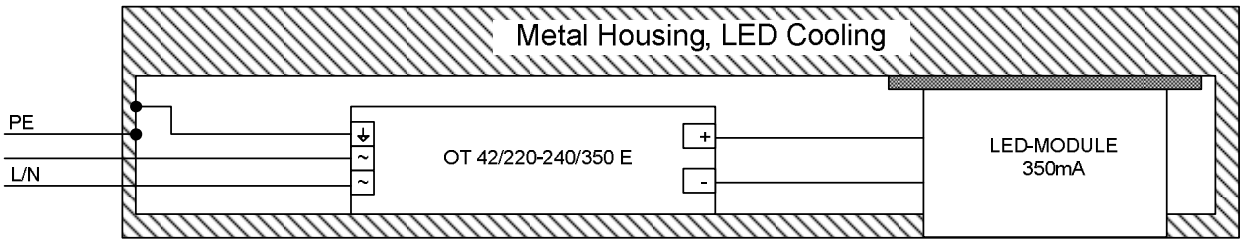
Wiring diagram



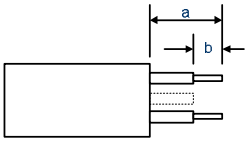
Installation notes

1. Live parts of the ECG are separated by double/reinforced insulation against the outer surfaces of the ECG except in the area around the terminals. The compliance with relevant creepage distances and clearances according to IEC 60598 in this area must be guaranteed by the fixture.
   The luminaire manufacturer is responsible for providing the required clearances and creepage distances and also for the protection against electrical shock, especially for the line and load wires.

2. This control gear is equipped with an equipotential terminal (pink color) for improved reliability in protection class I luminaires with grounded heat sinks. In this configuration a short as possible connection should be made from protective earth to the equipotential terminal of the device for best reliability.



3. Wire Preparation:



a: n/a, b: 10-11mm

4. Ballast losses and LED Module heat radiation can lead to heat accumulation in a complete closed case. Therefore it is necessary to ensure, that the temperature at the measuring point t_c does not exceed the maximum value.

Instruction sheet

Please consult the instruction sheet for further important information on e.g. wire stripping and wiring limitations in system installations. The instruction sheet is enclosed with the device or available upon request.