

OPTOTRONIC®
OT 65/220-240/24 3DIM E
Dimmable LED Power Supply
for Outdoor Lighting

**Technical
Information**

Edition:
August 2010
subject to change

3DIM 

Technical data

Reference:	OT 65/220-240/24 3DIM E
For LED modules:	With respect to the output parameters: STREETlight Advanced
Line voltage, nominal:	220 – 240 V _{AC}
Line current, nominal:	0,325 A @ 230V
Line frequency:	50/60 Hz
Protection Class:	II
Output voltage:	DC voltage 24 V, electronically stabilized, line ripple max. - 0,5V/+1,0V
Maximum load	65 W
Partial load:	0 W – 65W
Power factor:	> 0,95 full load @ 230V > 0,90 half load @ 230V
Power losses:	8,5 W max.
Full load efficiency:	89 % @ 230V
Stand by power consumption:	< 0,7 W
Perm. voltage fluctuations:	198 - 264 V _{AC}
DC voltage operation:	No
Inrush current:	50 A @ 180µs
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 +55 °C
Max. case temperature at t _c point:	75°C
Designed ECG Life time:	50.000h (@ t _c max.) ¹⁾
Dimmable:	3DIM via - AstroDIM - StepDIM - DALI

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No-load proof:	Yes
Short circuit protection:	Automatic, reversible
Overload protection:	Automatic, reversible
Overheating protection:	Automatic, reversible
Wire cross section input/output line:	0,5 mm ² – 2,5 mm ² (20 AWG – 12 AWG), solid or flexible
Wire stripping:	10 - 11 mm
Terminal:	Mains (<i>grey/grey</i>) Equipotential Pin (<i>pink</i>) DALI (<i>red/red</i>) StepDIM (<i>white</i>) LEDModule (<i>red/black</i>) PWM Dimming Pin (<i>blue</i>), [Low-Active]
Max. cable length:	10 m
Geometry (l x b x h):	133 x 77 x 48 mm ³
Mounting holes:	123 mm
Weight:	~ 725 g
Casing:	Plastic
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:	IEC 61347-1, IEC 61347-2-13
Performance:	IEC 62384
Radio interference:	EN 55015 (A1: 2009)
Harmonic content:	IEC 61000-3-2
Immunity:	IEC 61547
DALI:	IEC 62386-101, IEC62386-102, IEC 62386-207 device type 6
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 kV _{rms} , SELV-equivalent

Approvals:

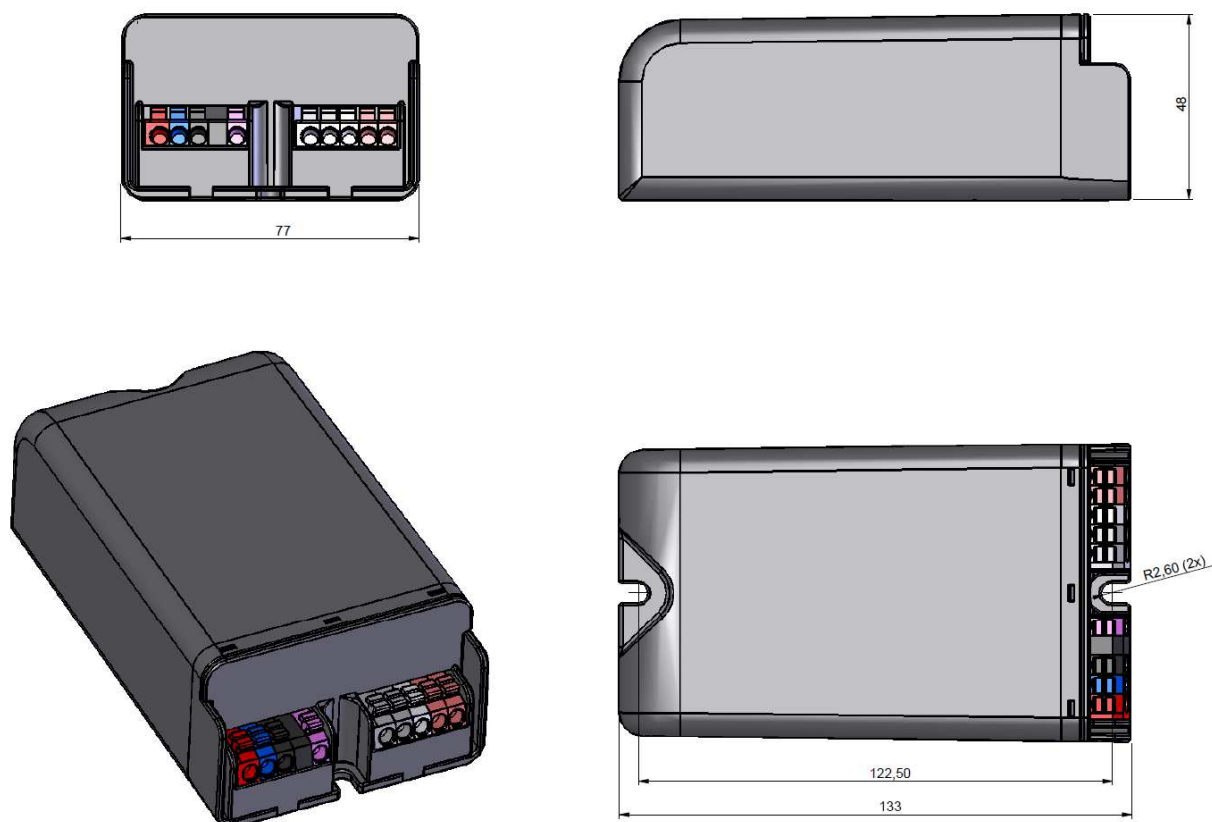


¹⁾ with 10% failure rate

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Geometry



Ordering information

	EAN 10 (1 pc)	EAN 40 (20 pcs)
OT 65/220-240/24 3DIM E	4008321964403	4008321964410

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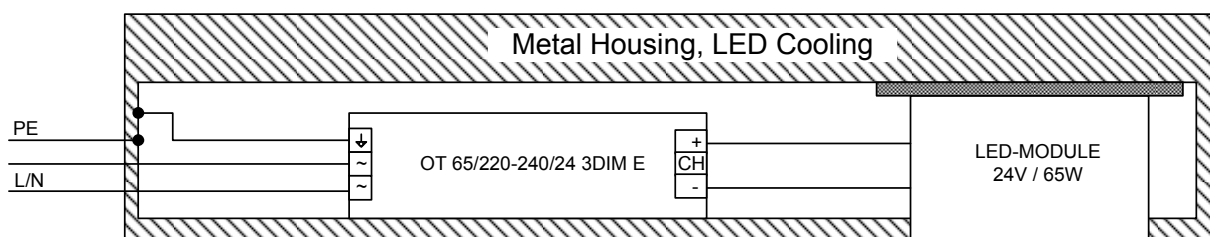
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Technical Information

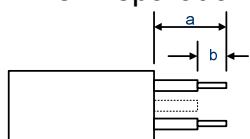
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Installation notes

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. The OT 65/220-240/24 3DIM E is equipped with an equipotential pin (pink color) for improved reliability in protection class I luminaires with grounded heat sinks. In this configuration a connection should be made from protective earth to the equipotential pin 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.