

# OT 130/220-240/24 P

## Benefits

- Slim form factor for mounting on the cove or into linear luminaires
- EL compliant
- Versatile scope of application due to output power range of up to 130W
- Suitable for installation under Sunlight
- Salt mist resistant



## Applications

- In areas as hotels, luminous Signage, cruises ship, Public squares and architecture lighting
- Suitable for indoor and outdoor SELV installations

L	220 mm
L1	207 mm
B	63 mm
H	37 mm

## Approvals



In preparation, if not already printed on product label

### Product Features

- Suitable for Class I/II luminaire
- SELV
- Wide  $t_a$  range -30 °C ... +55 °C
- Driver with output power range of up to 130 W
- High efficiency up to 90,5 %
- Smart Power Supply
- High IP protection (IP67)
- High surge protection: up to 4 kV (L-N) / 6 kV (L/N-PE)
- Mains voltage: 220 – 240 V<sub>AC</sub> / 176 – 250 V<sub>DC</sub>
- Overload protection
- Over temperature protection
- Short circuit protection
- $t_c$  max = +80 °C
- 50'000 h lifetime at  $t_c$  max
- 5 years guarantee\*

\*10% cumulated failure

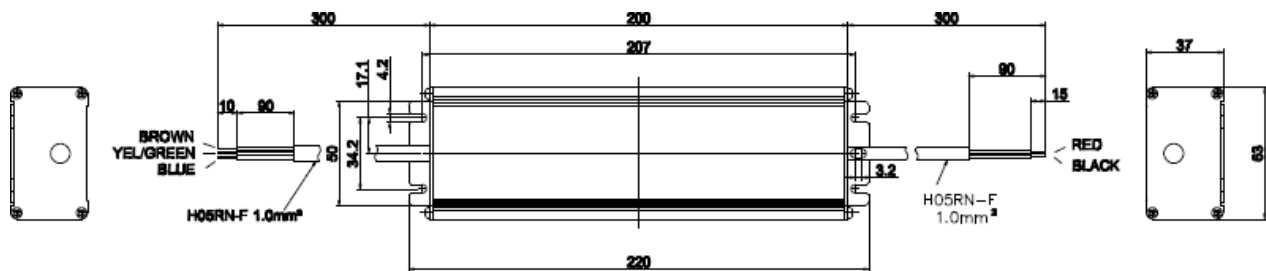
## Electrical specification

	Item	Value	Unit	Remarks
Input	Nominal voltage	220 – 240	V	
	Mains frequency	50 / 60	Hz	
	Input voltage AC	198-264	V	
	Input voltage DC	176-250	V	
	Nominal current	0,67	A	Full load, 230 Vac, 50 Hz
	Total Harmonic Distortion (THD)	<15	%	Full load, 230 Vac, 50 Hz / 60 Hz
	Power factor $\lambda$	0,95		Typical, Full load, 230 Vac, 50 Hz / 60 Hz,
	Efficiency in full load	90.5	%	Typical, Full load, 230Vac, 50Hz,
	Device power loss	14,7	W	
	Protection class	I		
	Suitable for fixtures with prot. Class	I / II		
	Inrush current	60	A	At Full Load ,240VAC, Cold Start Duration=550uS 50%Ipk—50%Ipk
	Max. ECG no. on circuit breaker 10 A (B)	8		
	Max. ECG no. on circuit breaker 16 A (B)	13		
	Max. ECG no. on circuit breaker 25 A (B)	20		
Max. ECG no. on circuit breaker 10 A (C)	10			
Max. ECG no. on circuit breaker 16 A (C)	17			
Ou	Nominal output voltage	24,2	V	
	Voltage accuracy	+/- 2	%	
	Voltage ripple	< 1,5	%	Vpk-pk at 100 Hz; Full load
	Nominal output power	70-130	W	
	Maximum output power	130	W	At steady state
	Capacitive load	1	uF/A	Linear modules allowed
	Galvanic isolation	SELV		
	U-OUT (working voltage)	30	V	
Environmental	Ambient temperature range	-30°C...+55°C	°C	
	Max. temperature at $t_c$ test point	80	°C	Measured on $t_c$ point. $t_a$ not exceeded
	Storage temperature range	-40°C...+85°C	°C	
	Permitted rel. humidity during operation	5 – 85	%	Not condensing
	Surge capability (L/N)	4 (L/N) / 6 (L-N/PE)	kV	L/N acc to. EN 61547
	Environmental rating	Outdoor		
	IP protection class	IP 67		
	Mains switching cycles	> 100'000	cycles	At $T_a=25^\circ\text{C}$
	Expected ECG lifetime	50'000	h	$t_c = 85^\circ\text{C} - 0,2\% / 1'000 \text{ h failure rate}$
	No-load proof	Yes		
	Intended for no-load operation	No		Secondary switching not allowed
	Overheating protection	Yes		Auto recovery
	Overload protection	Yes		Auto recovery
	Short-circuit protection	Yes		Auto recovery
	Type of connection, output side	Cables		Min 0,75 mm <sup>2</sup>
Dimension	Height	37	mm	
	Length	220	mm	
	Width	63	mm	
	Weight	943	g	
	Casing material	Metal		
	Wire prep. length, input side	5	mm	
	Wire prep. length, output side	5	mm	
	Mounting hole spacing, length	207	mm	

Input	Colour L and N	Blue / Brown		
	Cable cross selection	1,0	mm <sup>2</sup>	H05RN-F/3x1.0 mm <sup>2</sup>
	Wire preparation length	90	mm	
	Wire peeling length	10	mm	
	Lead length	300	mm	
Output	Colour + and -	Red / Black		
	Cable cross selection	1,0	mm <sup>2</sup>	H05RN-F/2x1.0 mm <sup>2</sup>
	Wire preparation length	90	mm	
	Wire peeling length	15	mm	
	Lead length	300	mm	

## Protection

Over temperature, Overload, Short-circuit, open-circuit, Reversible!



## Remarks

- **Output under power operation:** the output setting is still effective if the load is below the minimum output power without any safety issue, but normal performance such as THD, EMI, etc.. is not guaranteed. See typical operation window graph for details.
- **Output short circuit protection:** short circuit current is limited without damage to the unit. Be sure the load is designed to withstand the short circuit current as well. See typical operation window graph for details. The protection is self-restoring.
- **Output overload protection:** In case of heavy output power of the load (above about 120% of full load), the unit switches off. The protection is self-restoring.
- **Over temperature protection:** the driver is protected against temporary overheating when it exceeds. The protection is self-restoring.
- **No load operation:** do not put a switch between load and unit at DC condition for Erp consideration.
- Intended for use with LED modules.
- The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.
- **Touch current:** lower than 0.7 mA, according to EN 60598-1 ann. G and EN 61347-1 ann. A.
- **Earthing:** The protective earth (PE) wire must be connected to the heat sink of the LED module to improve the surge withstand capability of the system and EMI in critical luminaries. the LED drivers are not permitted to use the control gear also without connection to earth.
- **Startup time:** The startup time to reach the set output current is less than 1 s at full load.
- **External flexible cable or cord:** The external flexible cable or cord of the LED driver cannot be replaced; if the cord is damaged, the LED driver shall be destroyed.
- **Waterproof:** the driver is designed for outdoor installation with IP67 waterproof, during and after installation, the connection of input terminal and output terminal should be enclosed to far away from water source. Terminal block need provide IP67 waterproof if IP67 application needed.

- **Installation:** The wire connection should be installed by professional person, to provide reinforced insulation between L/N terminal block and accessible part, suggest to use terminal block which conform to EN60998-2-1 or EN60998-2-2, and with effective fixing, such as buckle. The terminal block for the supply can be:
  - Screw or screwless;
  - Three terminals
  - Min. 250 V, 0.75 mm<sup>2</sup> – 2.5 mm<sup>2</sup>;
  - Skinning about 10 mm at the ends of all conductors.
- **WEEE:** Electrical products must not be thrown out with domestic waste. They must be taken to a communal collecting point for environmentally friendly disposal in accordance with local regulations. Contact your local authorities or stockiest for advice on recycling. The packaging material is recyclable. Dispose of the packaging in an environmentally friendly manner and make it available for the recyclable material collection-service.
- **Ecodesign regulation information:** Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.
- For further details please consult the application note

## Standards

EN 61347-1

EN 61347-2-13

EN 55015

EN 61547

EN 61000-3-2

EN 61000-3-3

EN 60598-1

EN 62384

## Ordering information

Product name	EAN 10	EAN 40	Pieces / Box
OT 130/220-240/24 P	6937186114990	6937186115003	20

### Inventronics S.r.l.

Via Castagnole 65/A

31100 Treviso

Italy

www.inventronicsglobal.com

