# Light is OSRAM

# Product data sheet: OT FIT 20/220-240/500 CS

**Constant Current LED Power Supply** 

250mA - 350mA - 450mA- 500mA

**OPTOTRONIC® LED Power Supply** with high reliability in extra small & compact housing. Equips with 4 selectable currents fits in light fixtures for shop and office lighting.

### **Benefits:**

1 driver with 4 output currents; High quality light with very low ripple; Extra small housing for compact fixture; Long lasting and high reliability Safety ensured by OSRAM (SELV) 5 years guarantee

Applications Downlights, Spotlights and Panels

Approval marks (under preparation if not on label)

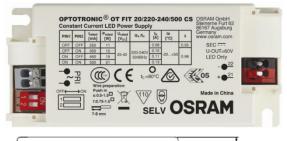


## **Product Features**

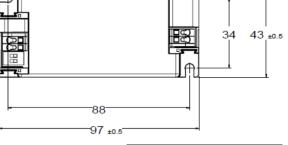
- Output currents: 250/350/450/500 mA
- Output voltage:  $25V_{DC} 42V_{DC}$
- Output power: 6.5 W 21 W
- Suitable for class I and II luminaires
- Fixed Output (no dimming)

- Low ripple, Low THD
- Extra small housing
- Typ. Efficiency: 87%
- SELV
- Up to 50`000 hours lifetime

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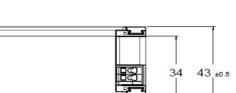


L1

В

B1

Н



97 mm

88 mm

43 mm

34 mm

29.5 mm



## **Electrical Specifications**

	ltem	Value	Unit	Remarks
	Nominal Voltage	220 - 240	V	
	Nominal frequency	50 / 60	Hz	
	AC voltage range	198 – 264	V	AC, Safety voltage range
	DC voltage range	n/a	V	
	Maximum voltage	275	V	2 h
Input	Nominal current	130	mA	230V, Refer to table 1 for details
	Total Harmonic Distortion (THD)	< 10	%	Full load, 230 V, 50 Hz / see graphs
	Power factor	0.98		Full load, 230 V, 50 Hz / see graphs
	Efficiency	87	%	Full load, 230 V, 50 Hz / typical/ see graphs
	No-load power	< 0.5	W	230 V, typical
	Power losses	3	W	At 230 V Input power 24 W max. refer to table 1 for details
	Protection class	11		Suitable for class I and II luminaires
	Inrush current	< 16	А	Th = 100 µs typical (measured at 50% lpeak)
	Max. units per circuit breaker	B16: 50 B10: 30		
	Leakage current	< 0.7	mA	Output floating
Output	Nominal voltage range	25 – 42	V	Refer to table 1 for details
	Maximum voltage	60	Vdc	w/ Open Circuit
	Nominal current range	250/350/450/500	mA	
	Current accurancy	+/- 7.5	%	
	Current ripple	< 5	%	Ripple / average @ 100 Hz
	Nominal power range	6.5 – 21	W	Partial Load. Refer to table 1 for details
	Maximum power	21	W	Refer to table 1 for details
	Galvanic isolation	SELV		Output to mains – touch current < 0.7 mA
	Dimming control	No		Not dimmable
	Dimming range	n/a	%	
Dim	Dimming technique	n/a		
Δ	Frequency	n/a	Hz	
	Galvanic isolation	n/a		
	Ambient temperature range ta	-20+50	°C	Refer to table 1 for details
	Maximum case temperature t <sub>c</sub>	80	°C	Measured on $t_c$ point indicated of the product label
Environment	Max. case temp. in fault condition	110	°C	
	Storage temperature range	-20+80	°C	Cool down before operating
	Relative humidity	585	%	Not condensing
	Surge transient protection	1/2	kV	L/N /LN/PE acc to EN 61547
	Environmental rating	Indoor		
	IP rating	IP 20		
	Mains switching cycles	> 100'000		
	Expected lifetime	50`000	hrs	$t_c$ = 70°C (operating at 10°C below Tc, max. failure rate of 10%

#### Protections

Over temperature Automatic, reversible Overload Automatic, reversible No load Yes. Limitation of Output voltage < 60V Short-circuit Automatic, reversible

#### Input overvoltage

Maximum allowed input voltage 275V AC Output overvoltage Yes. Limitation of Output voltage < 60V

## Wiring Diagram

Terminal: Max. cable length Geometry (I x b x h): Weight: Push in terminals 2 m 97 x 43 x 29.5 mm 85 g



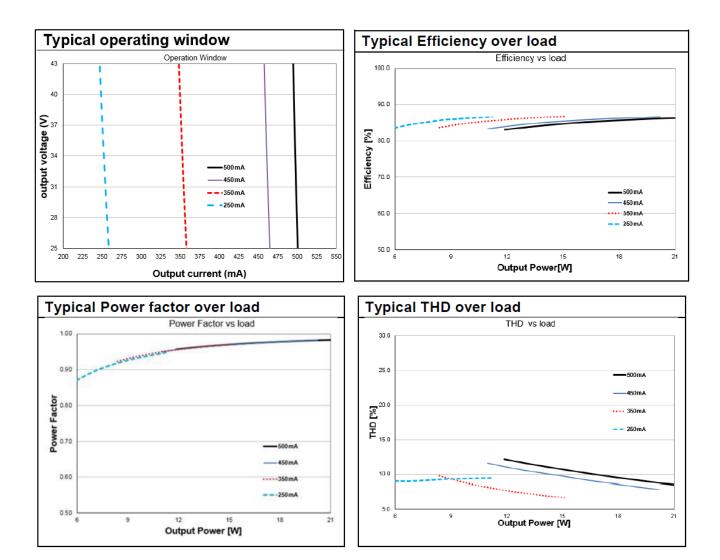
7-8 mm

220-240 V.c 2 2 2 2 2 2 2 40/500 CS 2 2 -LED-MODULE 500mA + 12.5W - 21W

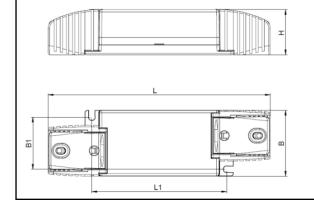
Example with 500mA LED module

For build-in: 0.5-1.5 mm<sup>2</sup>, for independent: 0.75-1.5 mm<sup>2</sup>

Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.



An optional cable clamp is available. This cable clamp can be snapped into the driver and thus converts it into an independent installation.



L	145mm
L1	88mm
В	43mm
B1	34mm
1	29.5mm

Table 1 - Rated output power and current sets					
lout (mA)	250	350	450	500	
U min [V]	25	25	25	25	
U max [V]	42	42	42	42	
P min [W]	6.3	8.8	11.3	12.5	
P max [W]	10.5	14.7	18.9	21	
<b>Та [</b> °С ]	50	50	50	50	
<b>Tc [</b> °C ]	80	80	80	80	
Line Current, nominal@230V mA	80	100	110	130	
Max Power Loss@230V [W]	1.6	2.2	3.0	3.0	
Input Power @230V [W]	12.0	16.9	21.7	24	

Pin1	Pin2	Current
ON	ON	500
ON	OFF	450
OFF	ON	350
OFF	OFF	250

Current selection by DIP-switch

#### Standards

Safety: IEC 61347-1, IEC 61347-2-13 Performance: IEC 62384 Radio interference: CISPR 15 Harmonic content: IEC 61000-3-2 Immunity: IEC 61000-3-3 IEC 61547

Product name	EAN10	EAN40	Pieces / box
OT FIT 20/220-240/500 CS	4052899435612	4052899435629	20
OT Cable Clamp D-style	4052899077904	4052899077911	40

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