# **Light is OSRAM**

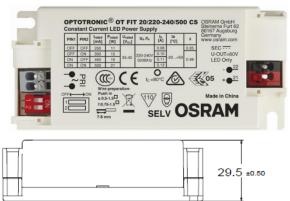


# Product data sheet: OT FIT 20/220-240/500 CS

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.

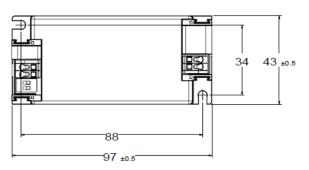


### Benefits:

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



# L 97 mm L1 88 mm B 43 mm B1 34 mm H 29.5 mm

### Approval marks (under preparation if not on label)









### **Product Features**

Output currents: 250/350/450/500 mA
 Low ripple, Low THD

Output voltage: 25V<sub>DC</sub> – 42V<sub>DC</sub>
 Extra small housing

Output power: 6.5 W – 21 W
 Typ. Efficiency: 87%

Suitable for class I and II luminaires – SELV

Fixed Output (no dimming)
 Up to 50`000 hours lifetime

## **Electrical Specifications**

	Item	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
	Nominal current	130	mA	230V, Refer to table 1 for details
=	Total Harmonic Distortion (THD)	< 10	%	Full load, 230 V, 50 Hz / see graphs
Input	Power factor	0.98		Full load, 230 V, 50 Hz / see graphs
드	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	II		Suitable for class I and II luminaires
	Inrush current	< 16	Α	Th = 100 µs typical (measured at 50% lpeak)
	Max. units per circuit breaker	B16: 50 B10: 30		
	Leakage current	< 0.7	mΑ	Output floating
	Nominal voltage range	25 – 42	V	Refer to table 1 for details
	Maximum voltage	60	Vdc	w/ Open Circuit
۔ ا	Nominal current range	250/350/450/500	mA	
Output	Current accurancy	+/- 7.5	%	
#	Current ripple	< 5	%	Ripple / average @ 100 Hz
ō	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		
	Frequency	n/a	Hz	
	Galvanic isolation	n/a		
	Ambient temperature range t <sub>a</sub>	-20+50	°C	Refer to table 1 for details
	Maximum case temperature t <sub>c</sub>	80	°C	Measured on t <sub>c</sub> point indicated of the product label
=	Max. case temp. in fault condition	110	°C	
Jer	Storage temperature range	-20+80	°C	Cool down before operating
ויי	Relative humidity	585	%	Not condensing
<u> </u>	Surge transient protection	1 / 2	kV	L/N /LN/PE acc to EN 61547
Environment	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 <  $60 \lor$ 

Short-circuit
Automatic, reversible

Input overvoltage

Output overvoltage

Yes. Limitation of Output voltage < 60V

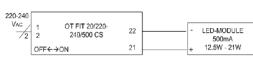
### **Wiring Diagram**

Terminal: Push in terminals Max. cable length 2 m

Geometry (l x b x h): 97 x 43 x 29.5 mm

Weight: 85 g

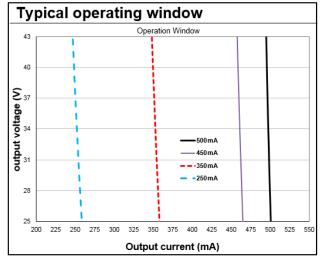
Wire preparation:
Push in
s:0.5-1.5
f:0.75-1.5

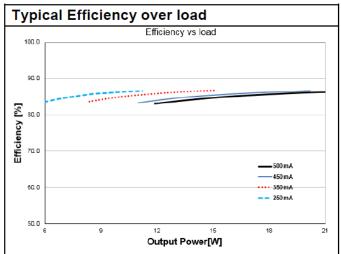


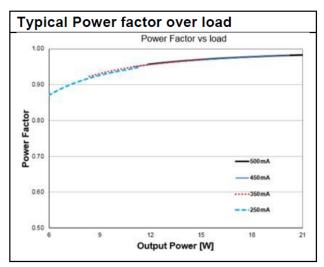
Example with 500mA LED module

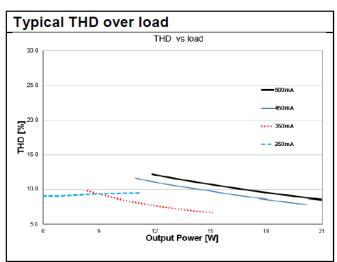
For build-in: 0.5-1.5 mm<sup>2</sup>, for independent: 0.75-1.5 mm<sup>2</sup>

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

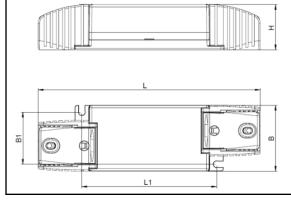








An optional cable clamp is available. This cable clamp can be snapped into the driver and thus converts it into an independent installation.



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>Ta [</b> °C ]	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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