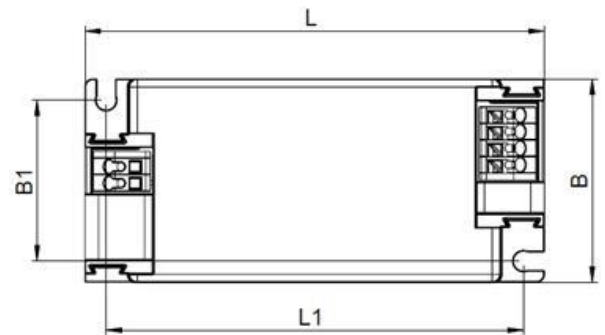
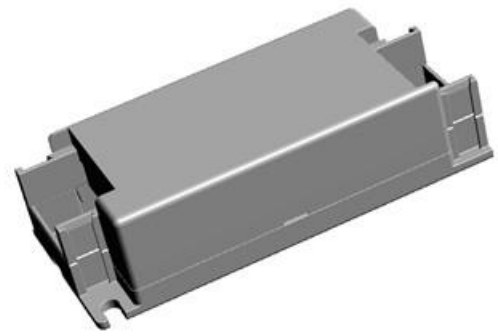


# OT FIT 30/220-240/700 CS

Constant Current LED Power Supply

500mA - 600mA - 650mA- 700mA



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

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 :500/600/650/700mA
- Output voltage : 23V<sub>DC</sub> – 42V<sub>DC</sub>
- Output power : 11.5W – 29.4W
- Suitable for class I and II luminaires
- Fixed Output (i.e. no dimming)
- Low ripple, ;low THD
- Extra small housing
- Typ. Efficiency : 89%
- SELV
- 50'000 hours lifetime

## Electrical Specifications

Item	Value	Unit	Remarks	
INPUT	Nominal voltage	220 – 240	V <sub>AC</sub>	
	Nominal frequency	50 - 60	Hz	
	AC voltage range	198 – 264	V <sub>AC</sub>	Permitted voltage range
	DC voltage range	NA	V	
	Maximum voltage	275	V	2hrs
	Nominal current	160	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	89	%	Full load, 230 V, 50 Hz, typical / see graphs
	No-load power	< 1.5	W	230V, typical
	Stand-by power	NA	W	
	Power loss	3.5	W	at 230V, Input power 34 W max. Refer to Table 1 for details
	Protection class	II		Suitable for class I and class II luminaires
	Inrush current	<16	A	t <sub>width</sub> = 100 µs typical (measured at 50% I <sub>peak</sub> )
	Max. units per circuit breaker	B16: 50; B10: 30		I <sub>max</sub> = 53 A Th = 230 µs
Leakage current	< 0.7	mA	Output floating	
OUTPUT	Nominal voltage range	23 – 42	V <sub>DC</sub>	Refer to Table 1 for details
	Maximum voltage	60	V <sub>DC</sub>	Open circuit
	Nominal current range	500 / 600 /650/700	mA	
	Current accuracy	+/- 7.5	%	
	Current ripple	< 5	%	Ripple / average @ 100 Hz
	Nominal power range	11.5 – 29.4	W	Partial Load. Refer to Table 1 for details
	Maximum power	29.4	W	T <sub>a</sub> ≤ 50°C, Refer to Table 1 for details
	Galvanic isolation	SELV		3,75 kVrms . Output to mains - Touch current < 0.7 mA
DIMMING	Dimming control	No		Not dimmable
	Dimming range	NA	%	
	Dimming technique	NA		
	Frequency	NA	Hz	
	Galvanic isolation	NA		
ENVIRONMENT	Ambient temperature range t <sub>a</sub>	-20 ... +50	°C	Refer to Table 1 for details
	Maximum case temperature t <sub>c</sub>	85	°C	Measured on t <sub>c</sub> point indicated of the product label. Refer to Table 1 for details
	Max. case temp. in fault condition	110	°C	
	Storage temperature range	-20 ... +80	°C	Cool down before operating
	Relative humidity	5 ... 85	%	Not condensing
	Surge transient protection	1   2	kV	L/N   LN/PE acc. IEC 61000-3-2 (ANSI C62.41 Cat.A ...)
	Environmental rating	Indoor		
	IP rating	IP 20		
	Mains switching cycles	> 100'000		
	Expected lifetime	30'000 50'000	hrs	t <sub>c</sub> = 85°C, 10% failure rate t <sub>c</sub> = 75°C, 10% failure rate

### Protections

#### Over temperature

Automatic, reversible

#### Overload

Automatic, reversible

#### No load

Yes

#### Short-circuit

Automatic, reversible

#### Input overvoltage

Maximum allowed input voltage 275V AC

#### Output overvoltage

Yes, Limitation of Output voltage < 60V

#### Output under voltage

NA

#### LED load protection

NA

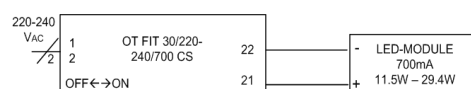
### Wiring Diagram

Terminal:  
Max. cable length - system: 2 m  
Geometry (l x b x h): 97 x 43 x 29.5 mm  
Weight: 90 g

Push in terminals  
2 m  
97 x 43 x 29.5 mm  
90 g

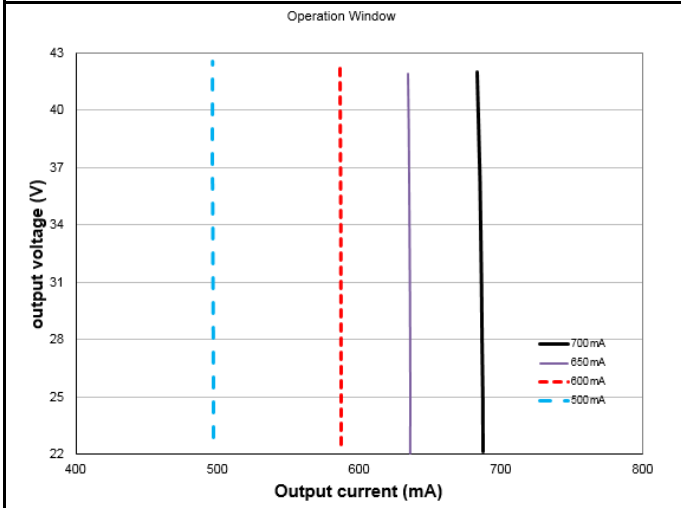
#### Wire preparation:

Push in  
s: 0.5-1.5  
f: 0.75-1.5  
8-9 mm

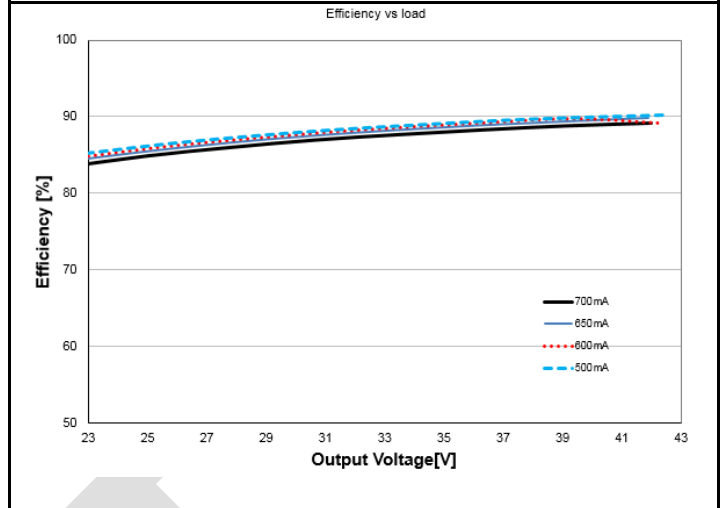


Example with 700mA LED module

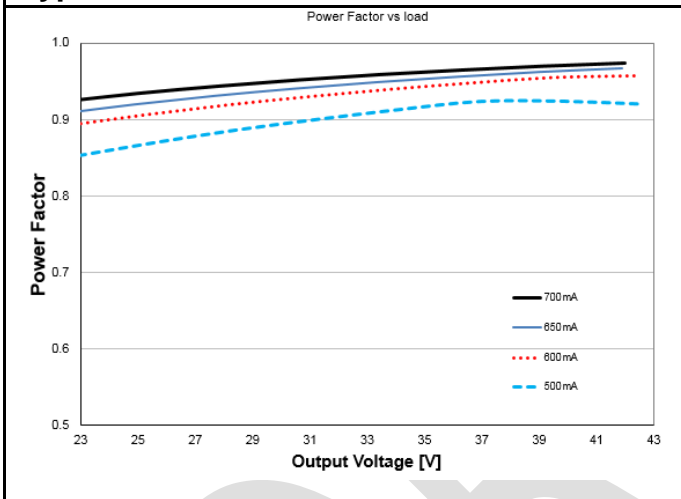
**Typical Operating window**



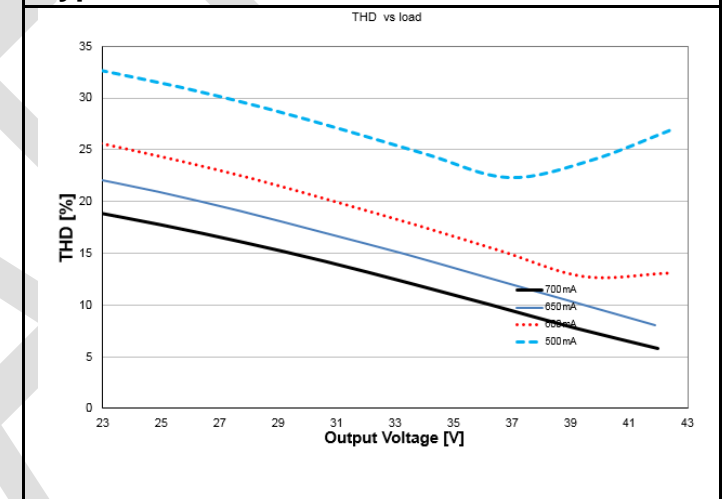
**Typical Efficiency over load**



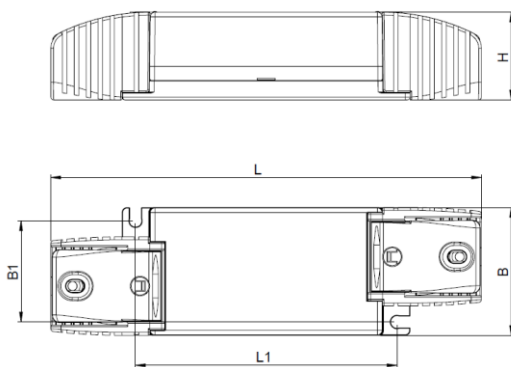
**Typical Power factor over load**



**Typical THD over load**



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



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

Table 1 - Rated output power and current sets					
<b>I<sub>out</sub> (mA)</b>	<b>500</b>	<b>600</b>	<b>650</b>	<b>700</b>	
<b>U<sub>min</sub> [V]</b>	23	23	23	23	
<b>U<sub>max</sub> [V]</b>	42	42	42	42	
<b>P<sub>min</sub> [W]</b>	11.5	13.8	15	16.1	
<b>P<sub>max</sub> [W]</b>	21	25.2	27.3	29.4	
<b>T<sub>a</sub> [°C]</b>	50	50	50	50	
<b>T<sub>c</sub> [°C]</b>	85	85	85	85	
<b>Line Current, nominal@230V mA</b>	120	140	150	160	
<b>Max Power Loss@230V [W]</b>	2.5	3.0	3.4	3.5	
<b>Input Power @230V [W]</b>	23.5	28.2	30.7	33	

Pin1	Pin2	Current
ON	ON	700
ON	OFF	650
OFF	ON	600
OFF	OFF	500

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 30/220-240/700 CS	TBD	TBD	20
OT Cable Clamp D-style	4052899077904	4052899077911	20

#### Manufacturer's address:

#### OSRAM GmbH

Steinerne Furt 62 D-86167 Augsburg  
Germany

[www.osram.com](http://www.osram.com)

#### Technical support:

Kunden Service Center Germany  
+49 (0)89-6213-60 00

#### Disclaimer (Engineering Samples)

This product is a demonstration model from our development laboratories made available for your information only.

The model is not binding in respect to its fitness for use, i.e. service life, luminous flux, color temperature and performance.

Prior to production the design, including dimensions, is subject to modification.

You will, therefore, appreciate that at this stage of development we are unable to assume any liability also for damages which may be caused by this product.

Should you urgently require binding information for the preparation of construction data for your applications, please contact our marketing department.