

Light is OSRAM

OSRAM

**Product datasheet: OT FIT 75/220-240/1A6 CS****Constant Current LED Power Supply**

1200mA - 1350mA - 1500mA - 1650mA

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 applications

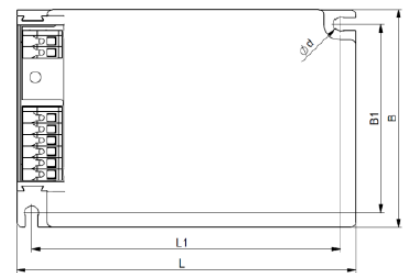
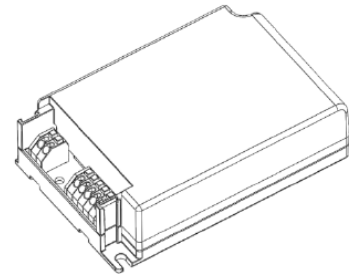
**Benefits**

High flexibility, 1 driver with 4 output currents;  
High quality light with very low output current ripple;  
High efficiency and reliability  
Extra small housing for flexible luminaire design;  
Safety ensured by OSRAM (SELV)

**Applications**

Suitable for Downlights, Spotlights and other indoor luminaires  
Suitable for luminaires of protection class I and II

Approval marks (under preparation if not on label)



L	103 mm
L1	94 mm
B	67 mm
B1	58 mm
H	29.5 mm

**Product Features**

- Output currents: 1200/1350/1500/1650mA
- Output voltage: 27V<sub>DC</sub> – 57V<sub>DC</sub>
- Output power: 32.5W – 77W
- Suitable for class I and II luminaires
- Fixed Output (no dimming)
- Low output current ripple < 5%
- Low THD < 10% @ full load
- High efficiency up to 91%
- SELV
- Up to 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	370	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	91	%	Full load, 230 V, 50 Hz, typical / see graphs
	No-load power	< 2	W	230V, typical
	Stand-by power	NA	W	
	Power loss	8.6	W	At 230V, Input power 85.5W max. Refer to Table 1 for details
	Protection class	II		Suitable for class I and class II luminaires
	Inrush current	<40	A	t <sub>width</sub> = 200 µs typical (measured at 50% I <sub>peak</sub> )
	Max. units per circuit breaker	B16: 16; B10: 10 C16: 26; C10: 16		
OUTPUT	Leakage current	< 0.7	mA	Output floating
	Nominal voltage range	27 – 57 27 – 42	V <sub>DC</sub>	@ output current 1200/1350 mA @ output current 1500/1650 mA
	Maximum voltage	70	V <sub>DC</sub>	Open circuit
	Nominal current range	1200/1350/1500/1650	mA	
	Current accuracy	+/- 7.5	%	
	Current ripple	< 5	%	Ripple / average @ 100 Hz
	Nominal power range	32.5 – 77	W	Partial Load. Refer to Table 1 for details
	Maximum power	77	W	T <sub>a</sub> ≤ 45°C, Refer to Table 1 for details
DIMMING	Galvanic isolation	SELV		3.75 kVrms. Output to mains - Touch current < 0.7 mA
	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 -20 ...+45	°C	@ output current 1200/1350/1500 mA @ output current 1650 mA
	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	
	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	35'000 50'000	hrs	t <sub>c</sub> =80 °C, max. 10% failure rate t <sub>c</sub> =70 °C, max. 10% failure rate

### Protections

#### Over temperature

Automatic, reversible

#### Overload

Automatic, reversible

#### No load

Yes. Limitation of Output voltage < 70V

#### Short-circuit

Automatic, reversible

#### Input overvoltage

Maximum allowed input voltage 275V AC


#### Output overvoltage

Yes. Limitation of Output voltage < 70V

### Wiring Diagram

Terminal: Push in terminals  
 Max. cable length - system: 2 m  
 Geometry (l x b x h): 103 x 67 x 29.5 mm  
 Weight: 170 g

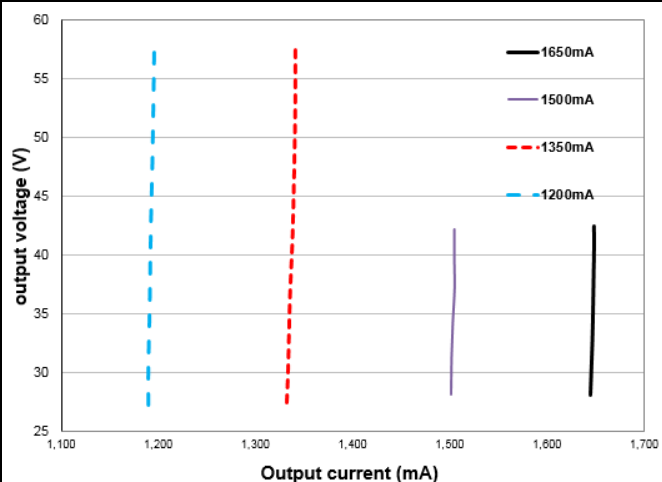
Wire preparation:

Push in  
 s:0.5-1.5  
 f:0.75-1.5  
  
 7-8 mm

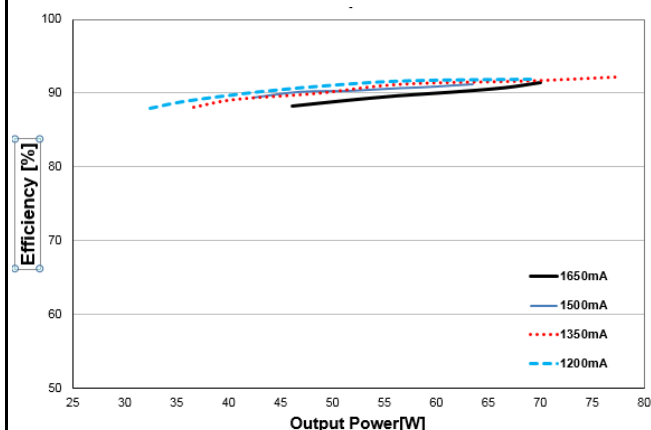
For built-in S: 0.5-1.5, for independent S: 0.75-1.5

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

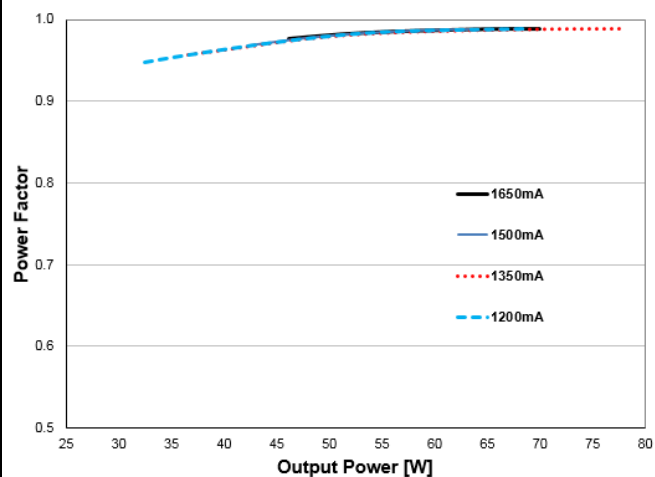
### Typical Operating window



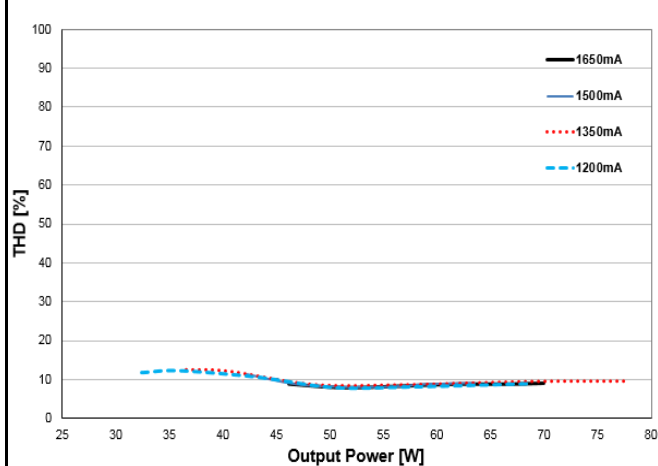
### Typical Efficiency over load



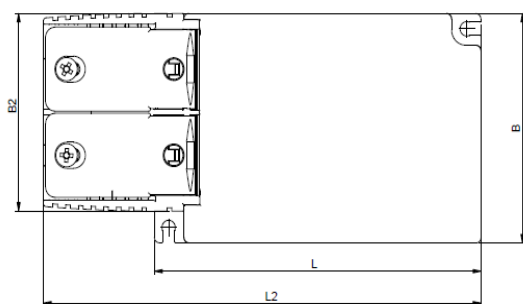
### Typical Power factor over load



### 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	103mm
L2	138mm
B	67mm
B2	57,7mm
H	29,5 mm

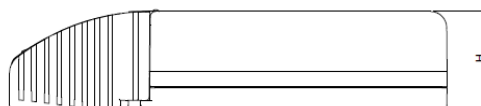


Table 1 - Rated output power and current sets				
I <sub>out</sub> (mA)	1200	1350	1500	1650
U <sub>min</sub> [V]	27	27	27	27
U <sub>max</sub> [V]	57	57	42	42
P <sub>min</sub> [W]	32.5	36.5	40.5	44.5
P <sub>max</sub> [W]	68.4	76.95	63	69.3
T <sub>a</sub> [°C]	50	50	50	45
T <sub>c</sub> [°C]	80	80	80	80
Line Current, nominal@230V mA	330	370	310	340
Max Power Loss@230V [W]	7.6	8.6	7.0	7.7
Input Power @230V [W]	76	85.5	70	77

Pin1	Pin2	Current
OFF	OFF	1200
OFF	ON	1350
ON	OFF	1500
ON	ON	1650

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 75/220-240/1A6 CS	4052899999565	4052899999572	20
OT CABLE CLAMP B-STYLE	4052899077881	4052899077898	20
OT CABLE CLAMP B-STYLE TL	4052899948051	4052899268227	20

OSRAM GmbH

Head Office:

Marcel-Breuer-Strasse 6

80807 Munich, Germany

Phone +49 89 6213-0

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

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