## **Light is OSRAM**

# **OSRAM**

## EM FIT 18 / 220 - 240 / 350 CS L

**Constant Current LED Power Supply** 

200mA - 250mA - 300mA- 350mA

ELEMENT LED Power Supply is the reliable choice for linear and area fixtures for office - industrial - shop lighting

#### **Benefits**

Flexible with 1 driver offers 4 output currents;
High quality light with very low ripple;
Very high efficiency 84%
Enable slim fixture design with flat 21mm height metal housing
Long lasting and high reliability
SELV driver



Linear and area lighting
Office – industrial - shop

#### **Approbations & Certifications**

**CE, ENEC, CCC, RCM, UKCA, TISI, EAC**In preparation, if not already printed on the label







## **Product Features**

- Output current: 200/250/300/350mA
- Low THD < 20% @ full load
- Output power : 5.4W 17.85W
- Input voltage: 220 240V<sub>AC</sub>
- Ambient temp range ta: -20 to +50°C

- Wide output voltage range
- Low ripple < 10%
- Very high efficiency 84%
- Fixed output ( no dimming)
- 3 years guarantee

	Item	Value	Unit	Remarks
	Nominal voltage	220 – 240	V	
	Nominal frequency	50 / 60	Hz	
	AC voltage range	198 – 264	V	
	DC voltage range	NA	V	
	Maximum voltage	300	Vac	2 h maximum, unit might not operate in this abnormal condition
	Nominal current	125	mA	230V, Refer to Table 1 for details
	Total Harmonic Distortion (THD)	< 20	%	Full load
_	Power factor	≥ 0.95		Full load, 220 – 240 V, 50 Hz / see graphs
INPUT	Efficiency	84	%	Full load, 220 – 240 V, 50 Hz / see graphs
	Power loss	3.4	W	At 230V, Refer to Table 1 for details
	Protection class	l		Suitable for class I/II luminaire
	Inrush current	35	Α	t <sub>width</sub> = 80 µs typical (measured at 50% Ipeak)
	Max. units per circuit breaker	B25:75 B16:48 B10:30 C25:125 C16:80 C10:50		
	Nominal voltage range	27-51	V	@ 200/250/300/350mA output current, output current; Refer to Table 1 for details
	Maximum voltage	< 60	Vdc	w/ Open Circuit
_	Nominal current range	200/250 300/350	mA	
OUTPUT	Current accuracy	+/- 7.5	%	
5	Current ripple 100Hz	< 10	%	
ō	Nominal power range	5.4-17.85	W	Partial Load. Refer to Table 1 for details
	Maximum power	17.85	W	
	Galvanic isolation	SELV		
	Output PSTLM	≤1		
	Output SVM	≤0.4		
	Ambient temperature range t <sub>a</sub>	-20+50	°C	
	Maximum case temperature t <sub>c</sub>	65	°C	Measured on t <sub>c</sub> point indicated of the product label
È	Max. case temp. in fault condition	100	°C	
鱼	Storage temperature range	-40+85	°C	
⋛	Relative humidity	5 90	%	Not condensing
2	Surge transient protection	1   2	kV	L/N   LN/PE acc to. EN 61547 Clause 5.7
ENVIRONMENT	Environmental rating	Indoor		
	IP rating	IP 20		
	Mains switching cycles	> 100'000		650G 10W 6 '1
	Expected lifetime	35'000 50'000	h	$t_{cmax} = 65$ °C, 10% failure rate $t_{cmax} = 60$ °C, 10% failure rate

#### **Protections**

Over temperature

Automatic, reversible

Overload

Automatic, reversible

Short-circuit

Automatic, reversible

No load, Yes

Input overvoltage

Maximum allowed input voltage 300V AC/ 2hr

**Output overvoltage** 

Yes, Limitation of Output voltage < 60Vrms

Output under voltage

NA

### **Wiring Diagram**

Terminal: Push in terminals

Max. cable length: 2 m

Geometry (l x b x h): 210 x 30 x 21 mm

Weight: 120g

Wire preparation:
Push in
s:0.5-1.5
f: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. Indication that the lamp controlgear relies upon the luminaire enclosure for protection against accidental contact with live part

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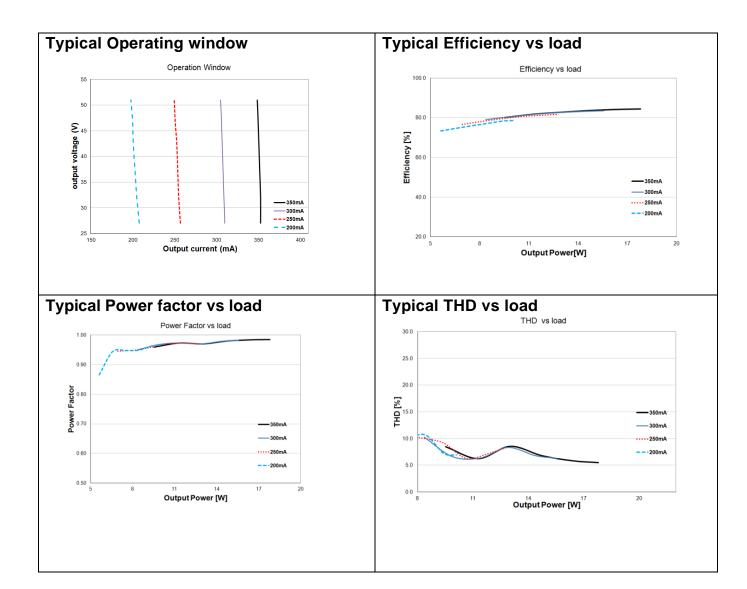


Table 1 - Rated output power and current sets							
lout [mA]	20	250	300	350			
U min [V]	27	27	27	27			
U max [V]	51	51	51	51			
P min [W]	5.4	6.75	8.1	9.5			
P max [W]	10.2	12.8	15.3	17.9			
<b>Ta [</b> °C ]	50	50	50	50			
<b>Tc [</b> °C ]	65	65	65	65			
Line Current, nominal@230V mA	82	95	110	125			
Max Power Loss@230V [W]	3.0	3.2	3.4	3.5			
Input Power @230V [W]	13.0	16.0	18.8	21.5			

PIN1	PIN2	Irated[mA]
OFF	OFF	200
OFF	ON	250
ON	OFF	300
ON	ON	350

Current selection by DIP-switch

Ecodesign regulation information

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.

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.

#### **Standards**

Safety: IEC 61347-1, IEC 61347-2-13

Performance: IEC 62384

Harmonic content: IEC 61000-3-2

Immunity: IEC 61000-4-5 IEC 61547

Product name	EAN10	EAN40	Pieces / box
EM FIT 18 / 220 - 240 / 350 CS L	4062172219976	4062172219983	20

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