

Light is OSRAM

OSRAM

**EM FIT 60 / 220 – 240 / 1200 CS L**

Constant Current LED Power Supply

900mA - 1050mA - 1100mA- 1200mA

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

**Benefits**

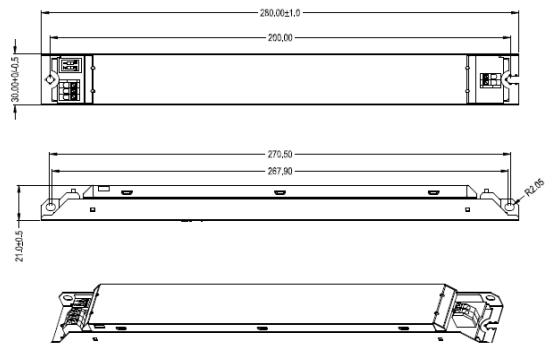
Flexible with 1 driver offers 4 output currents;  
 High quality light with very low ripple;  
 Very high efficiency up to 88%  
 Enable slim fixture design with flat 21mm height metal housing  
 Long lasting and high reliability  
 SELV driver

**Applications**

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:  
900/1050/1100/1200mA
- Low THD < 20% @ full load
- Output power : 24.3W – 61.2W
- 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 up to 88%
- Fixed output ( no dimming)
- 3 years guarantee

	Item	Value	Unit	Remarks	
INPUT	Nominal voltage	220 – 240	V		
	Nominal frequency	50 / 60	Hz		
	AC voltage range	198 – 264	V		
	DC voltage range	NA	V		
	Maximum voltage	300	V <sub>ac</sub>	2 h maximum, unit might not operate in this abnormal condition	
	Nominal current	370	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	
	Efficiency	88	%	Full load, 220 – 240 V, 50 Hz / see graphs	
	Power loss	7.7	W	At 230V, Refer to Table 1 for details	
	Protection class	I		Suitable for class I/II luminaire	
	Inrush current	50	A	$t_{width} = 140 \mu s$ typical (measured at 50% I <sub>peak</sub> )	
	OUTPUT	Max. units per circuit breaker	B25:32 B16:20 B10:13 C25:47 C16:30 C10:19		
Nominal voltage range		27-51	V	@ 900/1050/1100/1200mA output current, Refer to Table 1 for details	
Maximum voltage		< 60	V <sub>dc</sub>	w/ Open Circuit	
Nominal current range		900/1050 1100/1200	mA		
Current accuracy		+/- 7.5	%		
Current ripple 100Hz		< 10	%		
Nominal power range		24.3-61.2	W	Partial Load. Refer to Table 1 for details	
Maximum power		61.2	W		
Galvanic isolation		SELV			
Output PSTLM		≤1			
Output SVM		≤0.4			
ENVIRONMENT		Ambient temperature range $t_a$	-20 ...+50	°C	
		Maximum case temperature $t_c$	75	°C	Measured on $t_c$ point indicated of the product label
	Max. case temp. in fault condition	110	°C		
	Storage temperature range	-40 ...+85	°C		
	Relative humidity	5 ... 90	%	Not condensing	
	Surge transient protection	1   2	kV	L/N   LN/PE acc to. EN 61547 Clause 5.7	
	Environmental rating	Indoor			
	IP rating	IP 20			
	Mains switching cycles	> 100'000			
	Expected lifetime	35'000 50'000	h	$t_{cmax} = 75^{\circ}C$ , 10% failure rate $t_{cmax} = 65^{\circ}C$ , 10% failure rate	

## Protections

### Over temperature

Automatic, reversible

### Overload

Automatic, reversible

### Short-circuit




Automatic, reversible

No load, Yes

## Wiring Diagram

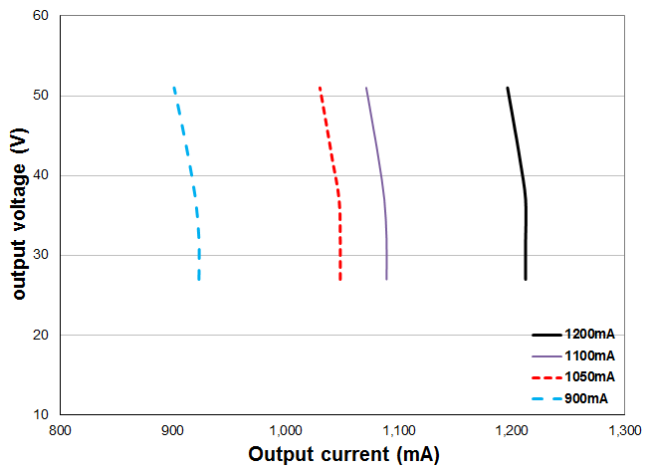
Terminal:	Push in terminals
Max. cable length :	2 m
Geometry (l x b x h):	280 x 30 x 21 mm
Weight:	186g+/-10g

### Wire preparation:

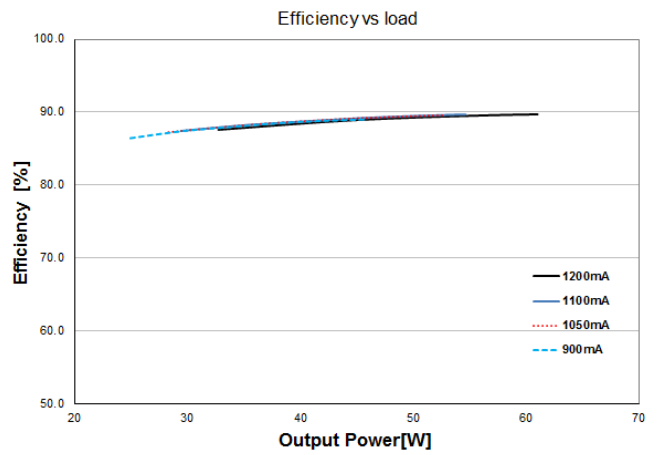
Push in  
s:0.5-1.5   
f:0.75-1.5   
  
7-8 mm

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

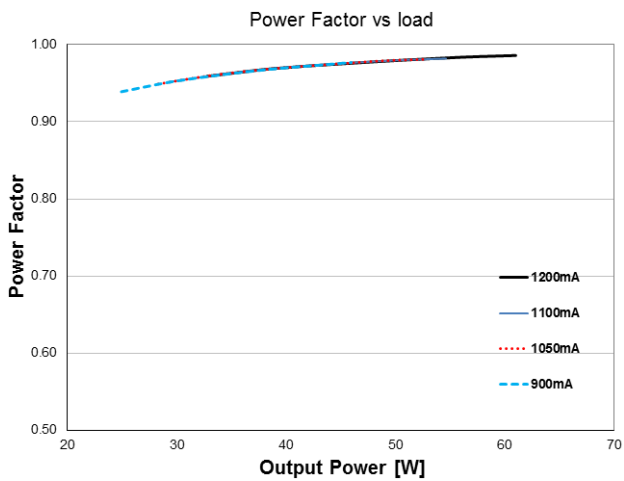
### Typical Operating window



### Typical Efficiency vs load



### Typical Power factor vs load



### Typical THD vs load

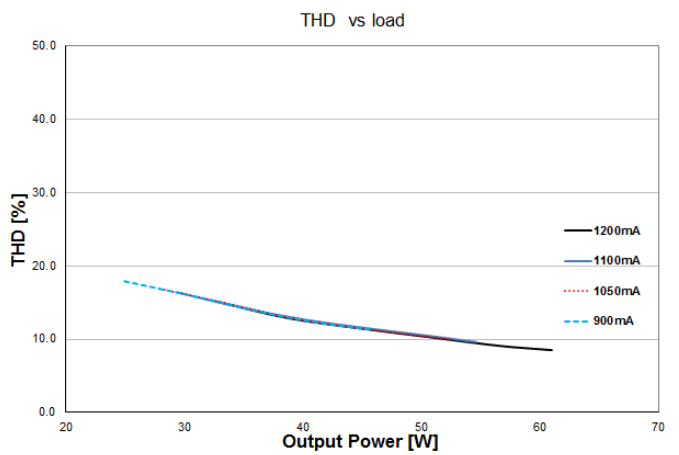


Table 1 - Rated output power and current sets				
<b>I<sub>out</sub> [mA]</b>	<b>900</b>	<b>1050</b>	<b>1100</b>	<b>1200</b>
<b>U<sub>min</sub> [V]</b>	27	27	27	27
<b>U<sub>max</sub> [V]</b>	51	51	51	51
<b>P<sub>min</sub> [W]</b>	24.3	28.4	29.7	32.4
<b>P<sub>max</sub> [W]</b>	45.9	53.6	56.1	61.2
<b>T<sub>a</sub> [°C]</b>	50	50	50	50
<b>T<sub>c</sub> [°C]</b>	72	75	75	75
<b>Line Current, nominal@230V[mA]</b>	270	330	340	370
<b>Max Power Loss@230V [W]</b>	6.7	7.2	7.3	7.7
<b>Input Power @230V [W]</b>	56.1	64.8	67.6	73.5

PIN1	PIN2	I <sub>rated</sub> [mA]
OFF	OFF	900
OFF	ON	1050
ON	OFF	1100
ON	ON	1200

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 60 / 220 – 240 / 1200 CS L	4062172220019	4062172220026	20

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