Light is OSRAM

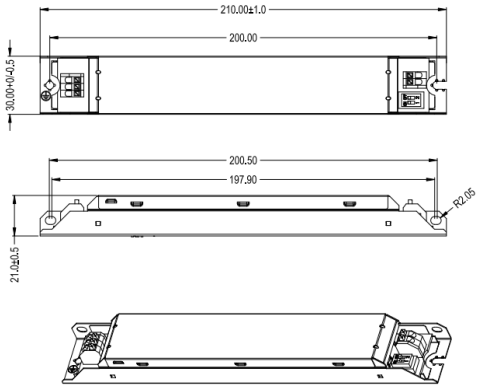
EM FIT 75 / 220 – 240 / 550 D CS L

Constant Current LED Power Supply

350mA - 400mA - 500mA- 550mA

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 92%
Enable slim fixture design with flat 21mm height metal housing
Long lasting and high reliability



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: 350/400/500/550mA
- Low THD < 20% @ full load
- Output power : 31.5-75.6W
- Input voltage: 220 – 240V_{AC}
- Ambient temp range ta : -20 to +50°C
- Wide output voltage range
- Low ripple < 10%
- Very high efficiency up to 92%
- 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	Vac	2 h maximum, unit might not operate in this abnormal condition
	Nominal current	470	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	92	%	Full load, 220 – 240 V, 50 Hz / see graphs
	Power loss	6.5	W	At 230V, Refer to Table 1 for details
	Protection class	I		Suitable for class I/II luminaire
	Inrush current	60	A	t_{width} = 170 µs typical (measured at 50% Ipeak)
	Max. units per circuit breaker	B25:21 B16:13 B10:8 C25:35 C16:22 C10:14		
OUTPUT	Nominal voltage range	90-136 90-150 90-187 90-216	V	550mA 500mA 400mA 350mA; output current, Refer to Table 1 for details
	Maximum voltage	< 250	Vdc	w/ Open Circuit
	Nominal current range	350/400 500/550	mA	
	Current accuracy	+/- 7.5	%	
	Current ripple 100Hz	< 10	%	
	Nominal power range	31.5-75.6	W	Partial Load. Refer to Table 1 for details
	Maximum power	75.6	W	
	Galvanic isolation	Non-isolated		
	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 ... 95	%	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°C, 10% failure rate t_{cmax} = 65°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

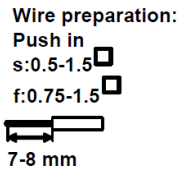
Yes, Limitation of Output voltage < 250Vrms

Output under voltage

NA

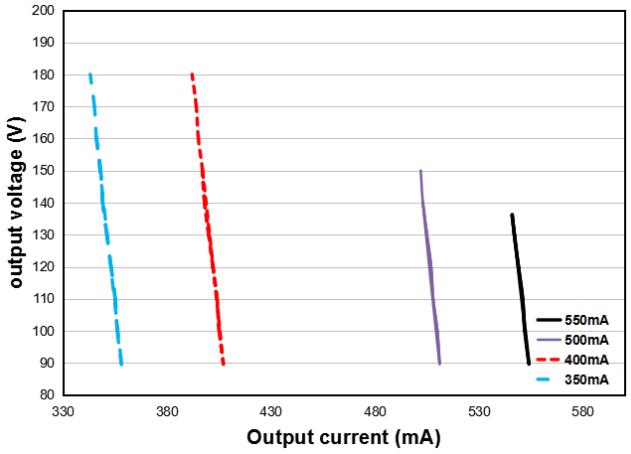
Wiring Diagram

Terminal:	Push in terminals
Max. cable length :	2 m
Geometry (l x b x h):	210 x 30 x 21 mm
Weight:	130g

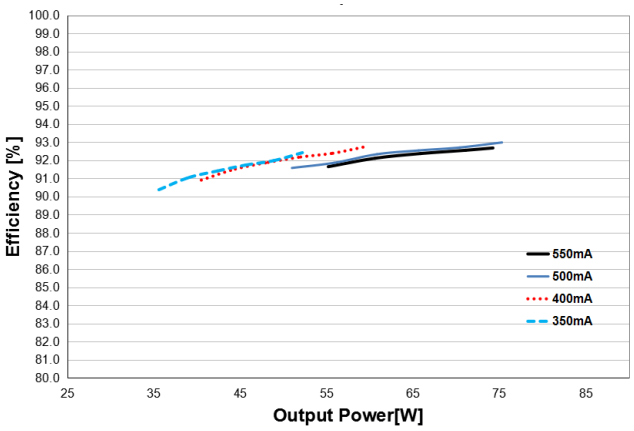


Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs. Indication that the lamp controlgear relies upon the luminaire enclosure for protection against accidental contact with live part

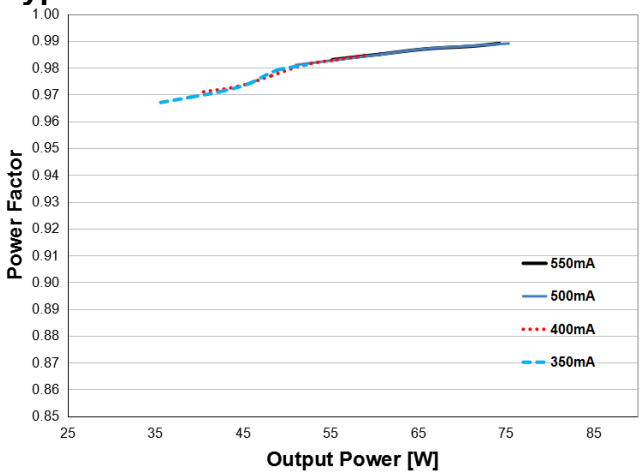
Typical Operating window



Typical Efficiency vs load



Typical Power factor vs load



Typical THD vs load

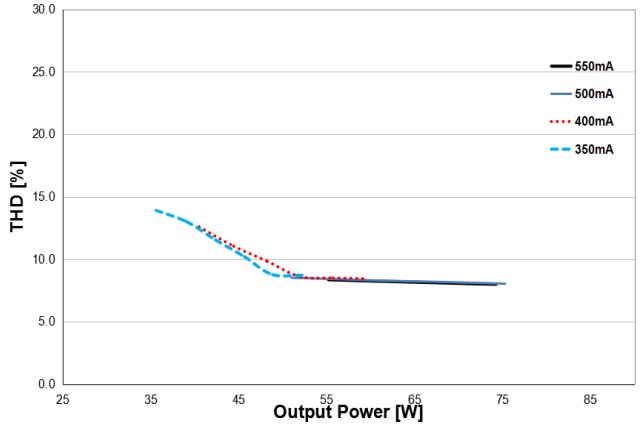


Table 1 - Rated output power and current sets				
Iout [mA]	**350**	**400**	**500**	**550**
U min [V]	90	90	90	90
U max [V]	216	187	150	136
P min [W]	31.5	36	45	49.5
P max [W]	75.6	74.8	75	74.8
Ta [°C]	50	50	50	50
Tc [°C]	72	73	74	75
Line Current, nominal@230V	470	470	470	470
Max Power Loss@230V [W]	6.5	6.5	6.5	6.5
Input Power @230V [W]	82.1	81.3	81.5	81.3

PIN1	**PIN2**	**Irated**[mA]
OFF	OFF	350
OFF	ON	400
ON	OFF	500
ON	ON	550

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 75 / 220 – 240 / 350 D CS L	**4062172219952**	**4062172219969**	**20**

Head Office:

Marcel-Breuer-Strasse 6
80807 Munich, Germany
Phone +49 89 6213-0
www.osram.com

Version: Final – Sep 2021