

Light is OSRAM

OSRAM

IT FIT 120 / 220 – 240 / 750 D CS L

Constant Current LED Power Supply

550mA - 600mA - 700mA- 750mA

ICUTRONIC 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 94%
Enable slim fixture design with flat 21mm height metal housing
Long lasting and high reliability
Non isolated driver

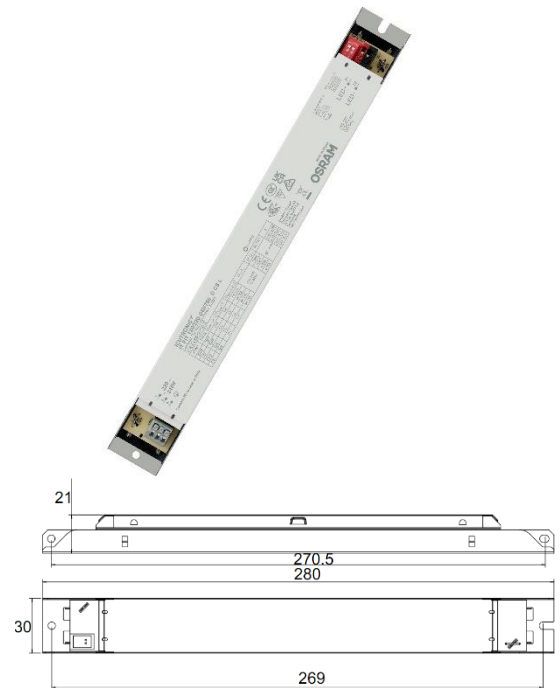
Applications

Linear and area lighting
Industrial – warehouse – highbay, etc.

Approbations & Certifications

CE, CCC, RCM, UKCA, ENEC

In preparation, if not already printed on the label



Product Features

- Output current: 550/600/700/750mA
- Low THD < 15% @ full load
- Output power : 29.7W – 121W
- Input voltage: 220 – 240V_{AC}
- Ambient temp range ta : -25 to +50°C
- Wide output voltage range
- Low ripple < 5%
- Very high efficiency up to 94%
- Fixed output (no dimming)

	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 _{ac}	2 h maximum, unit might not operate in this abnormal condition
	Nominal current	0.54	A	230V, Refer to Table 1 for details
	Total Harmonic Distortion (THD)	< 15	%	Full load, 220 – 240 V, 50 Hz / see graphs
	Power factor	≥ 0.95		Full load, 220 – 240 V, 50 Hz / see graphs
	Efficiency	94	%	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	56.4	A	$t_{width} = 132 \mu s$ typical (measured at 50% I _{peak})
	Max. units per circuit breaker	B32:19 B16:12 B10:7 C32:31 C16:20 C10:12		
OUTPUT	Nominal voltage range	54-220 54-200 54-170 54-160	V	@ 550 mA output current, @ 600 mA output current, @ 700 mA output current; @ 750 mA output current; Refer to Table 1 for details Exceed rated output voltage is not allowed
	Maximum voltage	< 250	V _{dc}	w/ Open Circuit
	Nominal current range	550/600/700/750	mA	
	Current accuracy	+/- 7.5	%	
	Current ripple 100Hz	< 5	%	
	Nominal power range	29.7-121	W	Partial Load. Refer to Table 1 for details. Exceed rated output power is not allowed
	Maximum power	121	W	
	Output PSTLM	≤1		
	Output SVM	≤0.4		
	Galvanic isolation	Non isolated		
ENVIRONMENT	Ambient temperature range t_a	-25 ...+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	-25 ...+80	°C	
	Relative humidity	5 ... 85	%	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	50'000 100'000	h	$t_{cmax} = 75^{\circ}C$, 10% failure rate $t_{cmax} = 65^{\circ}C$, 10% failure rate

Protections

Over temperature

Automatic(Output current reduced), reversible,

Overload

Automatic, reversible

Short-circuit

Automatic, reversible

No load,

Yes

Input overvoltage

Maximum allowed input voltage 300V AC/ 1hr

Output overvoltage

Yes, Limitation of Output voltage < 250Vrms


Output under voltage

NA

Wiring Diagram

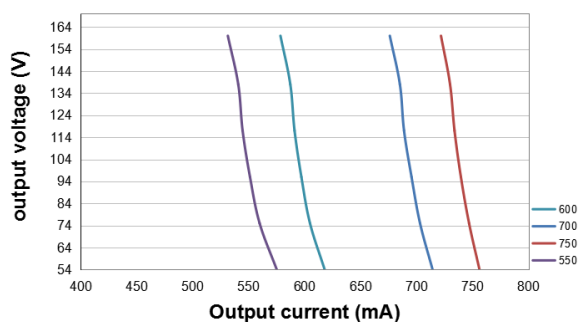
Terminal:	Push in terminals
Max. cable length :	2 m
Geometry (l x b x h):	280 x 30 x 21 mm
Weight:	193.5g

Wire preparation:

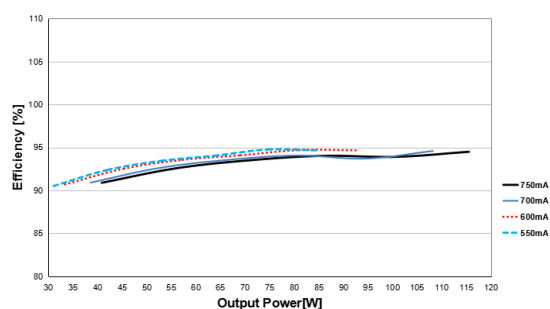
Push in
s:0.5-1.5
f:0.75-1.5

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

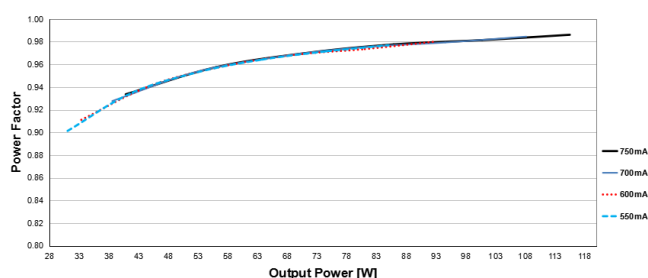
Typical Operating window



Typical Efficiency vs load



Typical Power factor vs load



Typical THD vsload

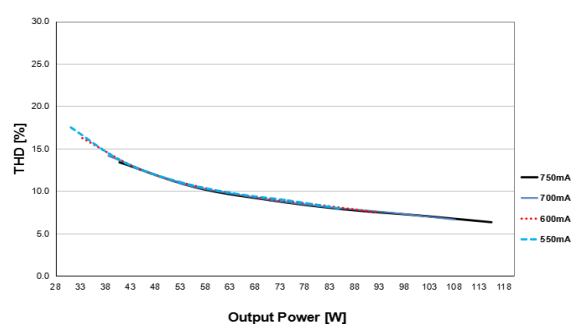


Table 1 - Rated output power and current sets

I _{out} [mA]	550	600	700	750
U _{min} [V]	54	54	54	54
U _{max} [V]	220	200	170	160
P _{min} [W]	29.7	32.4	37.8	40.5
P _{max} [W]	121	120	119	120
T _a [°C]	50	50	50	50
T _c [°C]	72	73	74	75
Line Current, nominal@230V [A]	0.589	0.584	0.579	0.584
Max Power Loss@230V [W]	7.7	7.6	7.6	7.6
Input Power @230V [W]	128.7	127.6	126.6	127.6

PIN1	PIN2	I _{rated} [mA]
OFF	OFF	550
ON	OFF	600
OFF	ON	700
ON	ON	750

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
IT FIT 120/ 220 – 240 / 750 D CS L	4062172317245	4062172317252	20

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The OSRAM logo is displayed in a bold, orange, sans-serif font.