

Light is OSRAM

OSRAM

IT FIT 40 / 220 – 240 / 800 CS L

Constant Current LED Power Supply

500mA - 600mA - 700mA- 800mA

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

Benefits

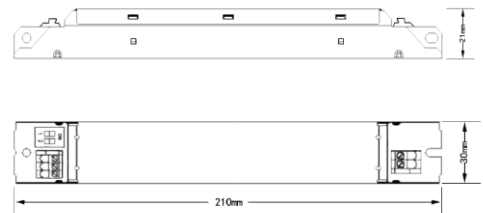
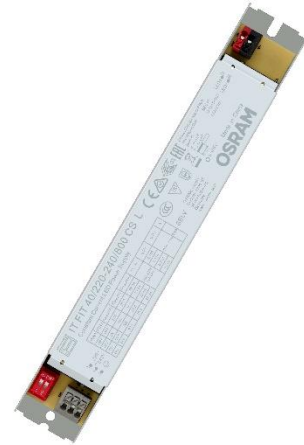
Flexible with 1 driver offers 4 output currents;
High quality light with very low ripple;
Very high efficiency up to 86%
Enable slim fixture design with flat 21mm height metal housing
Long lasting and high reliability
SELV driver

Applications

Linear and area lighting
Office – industrial - shop

Approbations & Certifications

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



Product Features

- Output current: 500/600/700/800mA
- Low THD < 15% @ full load
- Output power : 11.5W – 43.2W
- 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 86%
- Fixed output (no dimming)
- 5 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	220	mA	230V, Refer to Table 1 for details
	Total Harmonic Distortion (THD)	< 15	%	Full load
	Power factor	≥ 0.96		Full load, 220 – 240 V, 50 Hz / see graphs
	Efficiency	86	%	Full load, 220 – 240 V, 50 Hz / see graphs
	Power loss	6.17	W	At 230V Refer to Table 1 for details
	Protection class	I		Suitable for class I/II luminaire
	Inrush current	13.6	A	$t_{width} = 220 \mu s$ typical (measured at 50% I _{peak})
OUTPUT	Max. units per circuit breaker	B16:33 B10:20 C16:51 C10:32		
	Nominal voltage range	23-54	V	@ 500/600/700/800mA output current, Refer to Table 1 for details
	Maximum voltage	< 60	Vdc	w/ Open Circuit
	Nominal current range	500/600/700/ 800	mA	
	Current accuracy	+/- 7.5	%	
	Current ripple 100Hz	< 5	%	
	Nominal power range	11.5-43.2	W	Partial Load. Refer to Table 1 for details
	Maximum power	43.2	W	
Dimming	Galvanic isolation	SELV		
	Dimming control	No		
	Dimming method	NA		
	Dimming range	NA	%	
	Dimming Standard	NA		
	Galvanic isolation	NA		
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, 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): 210 x 30 x 21 mm
 Weight:
 122.5g

Input overvoltage

Maximum allowed input voltage 300V AC/ 1hr

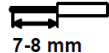
Output overvoltage

Yes, Limitation of Output voltage < 250Vrms

Output under voltage

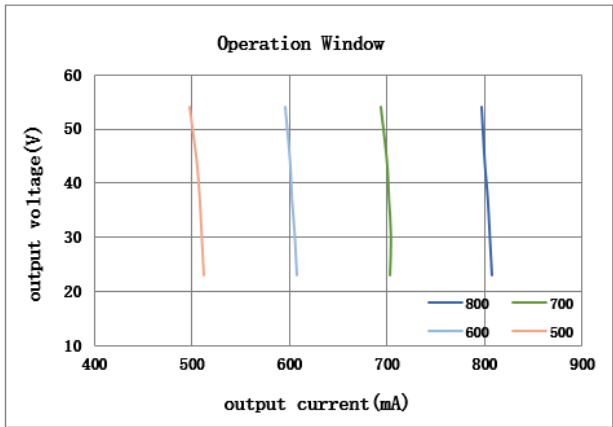
NA

Wire preparation:

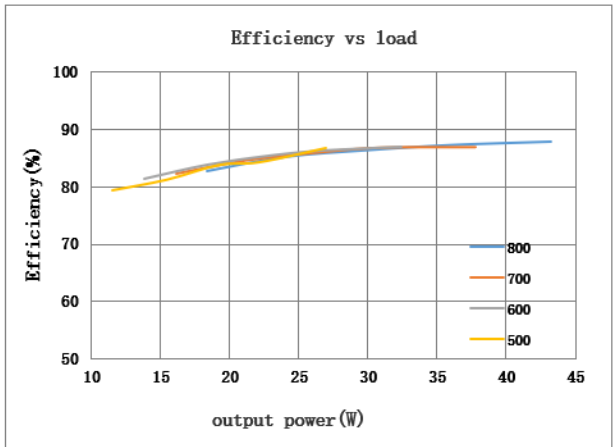
Push in
 s: 0.5-1.5
 f: 0.75-1.5

 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 control gear relies upon the luminaire enclosure for protection against accidental contact with live part

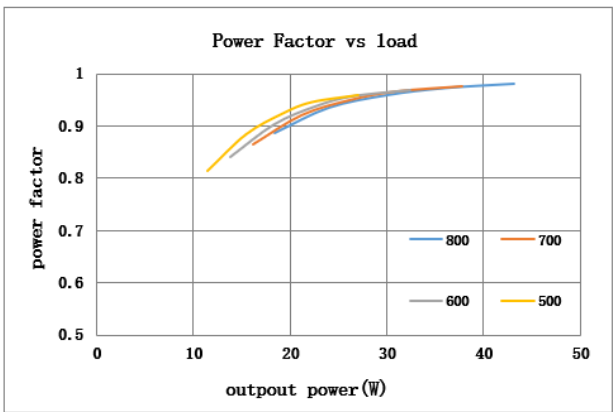
Typical Operating window



Typical Efficiency vs load



Typical Power factor vs load



Typical THD vs load

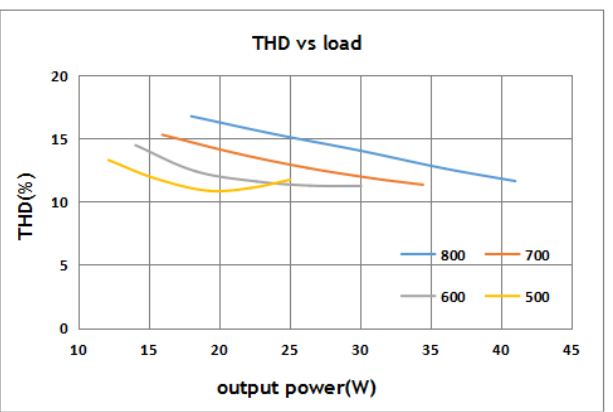


Table 1 - Rated output power and current sets				
I _{out} [mA]	500	600	700	800
U min [V]	23	23	23	23
U max [V]	54	54	54	54
P min [W]	11.5	13.8	16.1	18.4
P max [W]	27	32.4	37.8	43.2
T _a [°C]	50	50	50	50
T _c [°C]	75	75	75	75
Line Current, nominal@230V	150	174	219	220
Max Power Loss@230V [W]	4.1	4.84	5.4	6.17
Input Power @230V [W]	31.1	37.24	43.2	49.37

PIN1	PIN2	I _{rated} [mA]
OFF	OFF	500
OFF	ON	600
ON	OFF	700
ON	ON	800

Current selection by DIP-switch

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 40 / 220 – 240 / 800 CS L	4062172212700	4062172212717	20

Head Office:

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

OSRAM

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