

Product Data Sheet

IT FIT 60/220-240/1A4 CS

Constant Current LED Power Supply

825mA-900mA-975mA-1050mA-1100mA-1200mA-1300mA-1400mA

ICUTRONIC LED Power Supply

With high reliability in extra small & compact housing.
Equips with 8 selectable currents fits in light fixtures for shop and office lighting.

Benefits

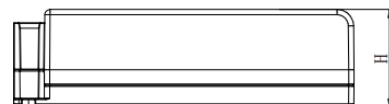
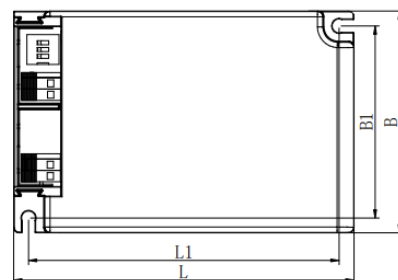
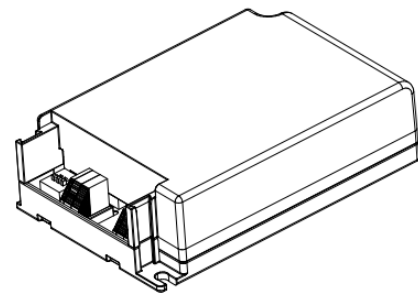
High flexibility, 1 driver with 8 output currents;
High quality light with very low output current ripple;
Extra small housing for compact fixture;
Long lasting and high reliability;
Safety ensured by OSRAM(SELV);

Applications

Downlights
Spotlights
Panels
Other indoor luminaires

Approval marks

(under preparation if not on label)



L	103mm
L1	94mm
B	67mm
B1	58mm
H	29.5mm

Product Features

- Output currents: 825/900/975/1050mA
1100/1200/1300/1400mA
- Output voltage: 27VDC – 57VDC
- Output power: 22.3W – 60W
- Suitable for class I and II luminaires
- Fixed Output (no dimming)
- Low output current ripple <3%
- Low THD <10% @full load
- High efficiency up to 90%
- SELV
- Up to 50'000 hours lifetime

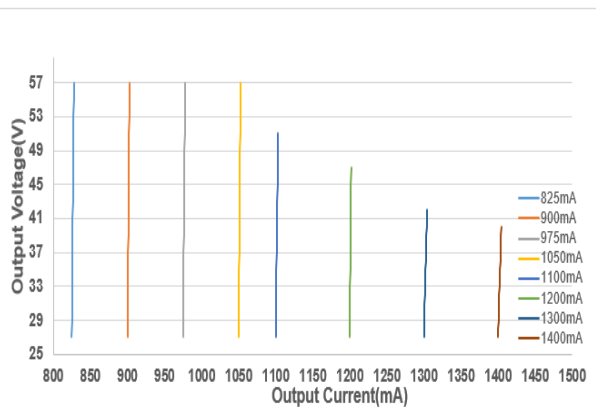
Electrical Specifications

	Item	Value	Unit	Remarks
Input	Nominal Voltage	220 – 240	Vac	
	Nominal frequency	50/60	Hz	
	AC voltage range	198 – 264	Vac	Safety voltage range
	DC voltage range	NA	V	
	Maximum voltage	300	V	2hrs
	Nominal current	300	mA	230V, Refer to Table 1 for details
	Total Harmonic Distortion (THD)	< 10	%	Full load, 230 V, 50 Hz / see graphs
	Power factor	0.98		Full load, 230 V, 50 Hz / see graphs
	Efficiency	90	%	Full load, 230 V, 50 Hz, typical / see graphs
	No-load power	n/a	W	Load switching on output side is not permitted
	Power loss	6.5	W	@230V, Input power 66.5W max.
	Protection class	II		Suitable for class I and class II luminaires
	Inrush current	< 50A	A	$t_{width} = 70\mu s$ typical (measured at 50% I _{peak})
	Max. units per circuit breaker	B10:25; B16:40; C10:37; C16:60 ;		
	Leakage current	< 0.7	mA	Output floating
Output	Nominal voltage range	27 – 57	V _{DC}	@ 825/900/975/1050 mA
		27 – 52		@ 1100 mA
		27 – 48		@ 1200mA
		27 – 43		@ 1300mA
		27 – 40		@ 1400mA
	Maximum voltage	60	V _{DC}	Open circuit
	Nominal current range	825/900/975/1050/ 1100/1200/1300/ 1400	mA	
	Current accuracy	+/- 5	%	
	Current ripple	< 3	%	Ripple / average @ 100 Hz
	Pst LM	≤ 1		Full load
	SVM	≤ 0.4		Full load
Nominal power range	22.3 – 60	W	Partial Load. Refer to Table 1 for details	
Maximum power	60	W	T _a ≤ 50 °C . Refer to Table 1 for details	
Galvanic isolation	SELV		3, 75 kVrms. Output to mains - Touch current < 0.7 mA	
Dimming	Dimming control	No		Non dimmable
	Dimming range	NA	%	
	Dimming technique	NA		
	Frequency	NA	Hz	
	Galvanic isolation	NA		
Environment	Ambient temperature range t _a	-20 ...+50	°C	
	Max. case temperature t _c max	80	°C	Measured on t _c point indicated on the product label.
	Max. case temp. in fault condition	110	°C	
	Storage temperature range	-20 ...+80	°C	Cool down before operating
	Relative humidity	5 ... 85	%	Not condensing
	Surge transient protection	1 2	kV	L/N LN/PE acc. IEC 61547 Clause 5.7

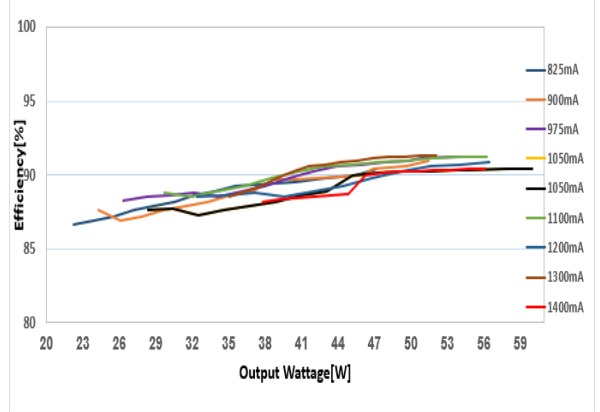
Environmental rating	Indoor		
IP rating	IP 20		
Mains switching cycles	> 100'000		
Expected lifetime	50'000	hrs	@t _{cmax} = 80°C, max. 10% failure rate

	Item	Value	Unit	Remarks
Protections	Over temperature	Yes		Automatic, reversible
	Over load	Yes		Automatic, reversible
	No load	Yes		Limitation of Output voltage < 60V
	Short-circuit	Yes		Automatic, reversible
	Output overvoltage	Yes		Limitation of Output voltage < 60V
	Input overvoltage	Yes		Maximum allowed input voltage 300V AC

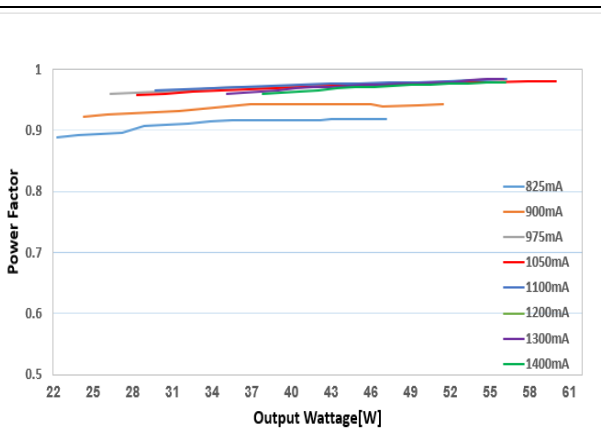
Typical Operating window



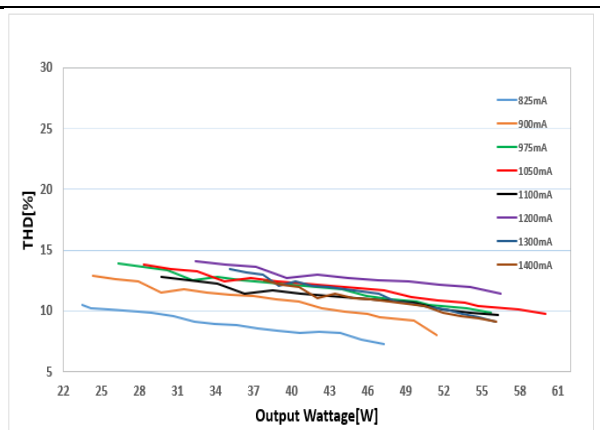
Typical Efficiency Vs load



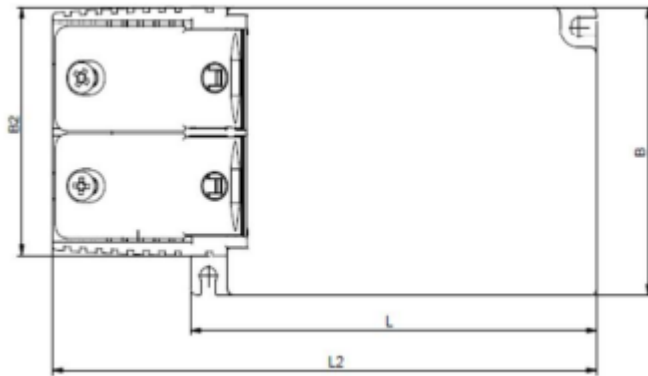
Typical Power factor Vs load



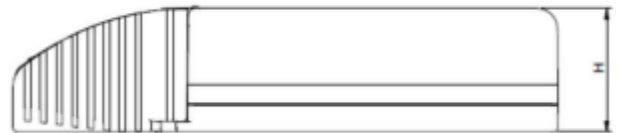
Typical THD Vs load



Optional cable clamps are available. The cable clamp can be snapped into the driver and thus converts it into an independent installation. The driver with **OT Cable Clamp B-style** dimension as below:



L	103mm
L2	138mm
B	67mm
H	29.5mm



PIN1	PIN2	PIN3	I _{out} (mA)
OFF	OFF	OFF	825
ON	OFF	OFF	900
OFF	ON	OFF	975
ON	ON	OFF	1050
OFF	OFF	ON	1100
ON	OFF	ON	1200
OFF	ON	ON	1300
ON	ON	ON	1400

Current selection by DIP-switch

Table 1 - Rated output power and current sets								
I _{out} [A]	825	900	975	1050	1100	1200	1300	1400
U min [V]	27	27	27	27	27	27	27	27
U max [V]	57	57	57	57	52	48	43	42
P min [W]	22	24	26	28	30	32	35	38
P max [W]	47	51	55	60	57	57	56	59
T _a [°C]	50	50	50	50	50	50	50	50
T _c [°C]	80	80	80	80	80	80	80	80
Line Current, nominal @230V [mA]	250	270	290	290	320	320	320	320
Max Power Loss @230V [W]	5.2	6	6.1	6.5	6.5	7	6.1	6.2
Input Power @230V [W]	52.2	57	61.1	66.5	63.5	64	62.1	65.2

Wiring Diagram

Terminal: Push in terminals

Max. cable length 2 m

Weight: 155 g

For build-in S: 0.5-1.5 mm², for independent S: 0.75-1.5 mm²

Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs

Standards

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

Performance: IEC 62384

Radio interference: CISPR 15

Harmonic content: IEC 61000-3-2

Immunity: IEC 61000-3-3

IEC 61547

Product name	EAN10	EAN40	Pieces / box
IT FIT 60/220-240/1A4 CS	4062172306072	4062172306089	20
CABLE CLAMP B-STYLE	4052899077881	4052899077898	20
OT CABLE CLAMP B-STYLE TL	4052899948051	4052899268227	20