Light is OSRAM

OSRAM

ELEMENT 18/220-240/450 LPF

Constant Current LED Power Supply

450mA

Element LED Power Supply fits in light fixtures for office, shop lighting or other indoor applications that require high quality of light

Benefits:

High compatibility with COBs and discrete LEDs; High quality of light with ripple current < 5% Safe and reliable Safety ensured by OSRAM (SELV)

Applications

Downlights, Spotlights Other Indoor LED luminaries Suitable for class II application

Approval marks

(Under preparation if not on the label)



Product Features

- Output currents: 450mA
- Output voltage: 30VD_c 42V_{Dc}
- Output power: 13.5W 18.9W
- Input voltage : 220 240 V_{AC}
- Suitable for class II luminaires

Ι L 0 Б ш (C) L1 90mm Т L1 80mm В 43mm B1 34mm Н 22mm

- 30'000 h lifetime
- Fixed Output (i.e. no dimming)
- Typ. Efficiency: 86%
- SELV
- Ambient temp range, ta: -20°C to +45°

Electrical Specifications

	ltem	Value	Unit	Remarks
	Nominal Voltage	220 – 240	Vac	
	Nominal frequency	50/60	Hz	
	AC voltage range	198 – 264	Vac	Permitted voltage range
	DC voltage range	NA	V	
	Maximum voltage	300	V	2hrs
	Nominal current	163	mA	230V
	Total Harmonic Distortion (THD)	NA	%	
nt	Power factor	0.55		Full load, 230 V, 50 Hz / see graphs
Input	Efficiency	86	%	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	3.1	W	@230V, Input power 22.0W max.
	Protection class	II		Suitable for class II luminaires
	Inrush current	13.2	Α	twidth = 220 µs typical (measured at 50% lpeak)
	Max. units per circuit breaker	B10: 28 B16: 44 C10: 43 C16: 69		
	Leakage current	< 0.7	mA	Output floating
	Nominal voltage range	30 – 42	VDC	
	Maximum voltage	60	VDC	Open circuit
	Nominal current range	450	mA	
	Current accuracy	± 7.5 %		
Output	Current ripple	< 5%		Ripple / average @ 100 Hz
Dut	Pst LM	≤ 1		
•	SVM	≤ 0.4		
	Nominal power range	13.5 - 18.9	W	Partial Load.
	Maximum power	18.9	W	Ta ≤ 45°C
	Galvanic isolation	SELV		3, 75 kVrms. Output to mains - Touch current < 0.7 mA
	Dimming control	No		Non dimmable
_	Dimming range	NA	%	
Dim	Dimming technique	NA		
-	Frequency	NA	Hz	
	Galvanic isolation	NA		
	Ambient temperature range ta	-20+45	°C	
	Max. case temperature tc max	75	°C	Measured on tc point indicated on the product label.
	Max. case temp. in fault condition	110	°C	
Environment	Storage temperature range	-40+85	°C	Cool down before operating
	Relative humidity	5 95	%	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	30'000 50'000	hrs	@tcmax = 75°C, max. 10% failure rate @tcmax = 65°C, max. 10% failure rate

Protection

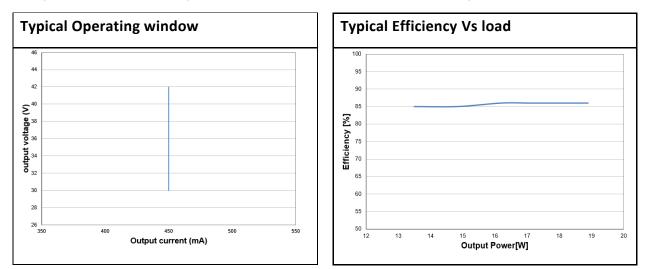
/ 2hr

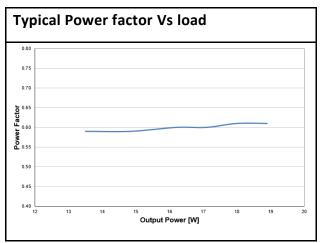
Wiring Diagram

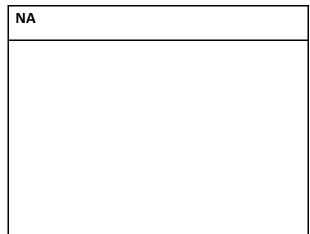
Terminal:	Push in terminals	wire preparation:
Max. cable length	2m	push in s: 0.75 - 1.5 [□] f: 0.75 - 1.5 [□]
Weight:	47g	4 → 7-8mm

For independent: 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

Harmonic content: IEC 61000-3-2

Immunity: IEC 61547

IEC 61000-3-3

EAN10	Product name	Units/ box
4062172361408	ELEMENT 18/220-240/350 LPF	50