

ELEMENT 10/220-240/250 LPF

Constant Current LED Power Supply 250mA

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)









L 90mm L1 79.7mm B 30mm B1 20mm H 21mm

Product Features

Output currents: 250mA

Output voltage: 30VDC - 42VDC

Output power: 7.5W – 10.5W

Input voltage : 220 – 240 V_{AC}

Suitable for class II luminaires

30'000 h lifetime

Fixed Output (i.e. no dimming)

Typ. Efficiency: 84%

SELV

Status: Release

Ambient temp range, ta: -20°C to +45°

Electrical Specifications

	Item	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	98	mA	230V
	Total Harmonic Distortion (THD)	NA	%	
#	Power factor	0.55		Full load, 230 V, 50 Hz / see graphs
Input	Efficiency	84	%	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	2.0	W	@230V, Input power 12.5W max.
	Protection class	II		Suitable for class II luminaires
	Inrush current	6.2	Α	twidth = 220µs typical (measured at 50% lpeak)
	Max. units per circuit breaker	B10: 49 B16: 66 C10: 64 C16: 103		
	Leakage current	< 0.7	mA	Output floating
	Nominal voltage range	30 – 42	V _{DC}	
	Maximum voltage	60	V _{DC}	Open circuit
	Nominal current range	250	mA	
	Current accuracy	± 7.5 %		
Output	Current ripple	< 5%		Ripple / average @ 100 Hz
Out	Pst LM	≤ 1		
	SVM	≤ 0.4		
	Nominal power range	7.5 – 10.5	W	Partial Load.
	Maximum power	10.5	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.
ent	Max. case temp. in fault condition	110	°C	
	Storage temperature range	-40+85	°C	Cool down before operating
<u> </u>	Relative humidity	5 95	%	Not condensing
Environment	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 = 70°C, max. 10% failure rate @tcmax = 60°C, max. 10% failure rate

Protection

Overload

Automatic, reversible

No load

Automatic, reversible

Short-circuit

Automatic, reversible

Input overvoltage

Maximum allowed input voltage 300V AC/ 2hr

Output overvoltage

Yes, limitation of Output voltage < 60V

Output under voltage

wire preparation:

push in

NA

Wiring Diagram

Terminal: Push in terminals

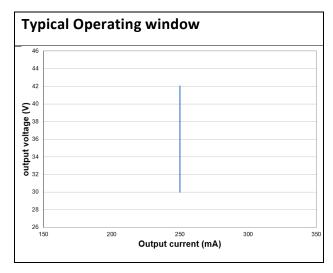
Max. cable length 2m

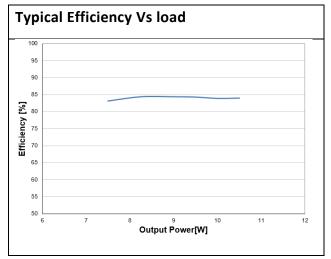
Weight: 47g

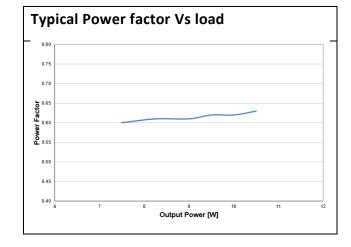
For independent: 0.75-1.5 mm²

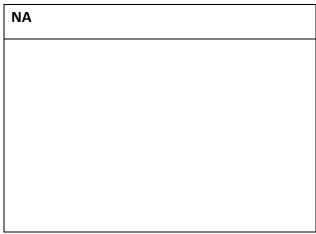
S: 0.75 - 1.5 f: 0.75 - 1.5

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
4062172361347	ELEMENT 10/220-240/250 LPF	50

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