Light is OSRAM



ELEMENT 6/220-240/150

Constant Current LED Power Supply 150mA

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 and Panels Other Indoor LED luminaries

Approval marks











I ٦ m m L1 90mm L1 80mm 43mm B1 34mm 22mm

Product Features

- Output currents: 150mA
- Output voltage: 24V_{DC} 42V_{DC}
- Output power: 3.6W 6.3W
- Input voltage: 220 240 V_{AC}
- Suitable for class I and II luminaires

- Up to 30'000 h lifetime
- Fixed Output (i.e. no dimming)
- Typ. Efficiency: 80%
- **SELV**
- Ambient temp range, ta: -20°C to +50°C

Electrical Specifications

	Item	Value	Unit	Remarks
Input	Nominal Voltage	220 – 240	Vac	
	Nominal frequency	50/60	Hz	
	AC voltage range	198 – 264	Vac	Permitted voltage range
	DC voltage range	n/a	Vdc	
	Maximum voltage	300	V	2hrs
	Nominal current	37	mA	230V
	Total Harmonic Distortion (THD)	< 20	%	Full load, 230 V, 50 Hz / see graphs
	Power factor	0.9		Full load, 230 V, 50 Hz / see graphs
	Efficiency	80	%	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	1.58	W	@230V, Input power 7.88W max.
	Protection class	II		Suitable for class I and class II luminaires
	Inrush current	8.8	Α	twidth = 6.9µs typical (measured at 50% lpeak)
	Max. units per circuit breaker	B10: 108; B16: 172; C10: 162; C16: 259;		
	Leakage current	< 0.7	mA	Output floating
Output	Nominal voltage range	24 – 42	V _{DC}	
	Maximum voltage	60	V_{DC}	Open circuit
	Nominal current range	150	mA	
	Current accuracy	± 10 %		
	Current ripple	< 5%		Ripple / average @ 100 Hz
	Pst LM	≤ 1		
	SVM	≤ 0.4		
	Nominal power range	3.6 – 6.3	W	Partial Load.
	Maximum power	6.3	W	Ta ≤ 50°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		
Environment	Ambient temperature range ta	-20+50	°C	
	Max. case temperature to max	75	°C	Measured on tc point indicated on the product label.
	Max. case temp. in fault condition	110	°C	
	Storage temperature range	-40+85	°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	30,000	hrs	@tc = tc-max 75°C, max. 10% failure rate
		50'000		@tc = 65°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 s:0.5-1.5

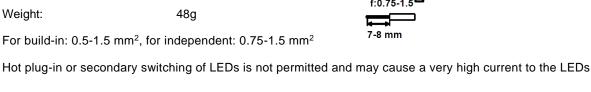
NA

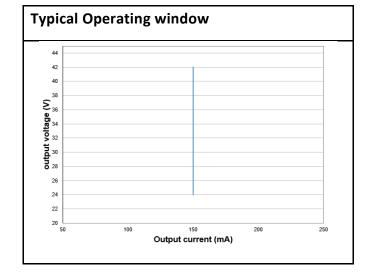
Wiring Diagram

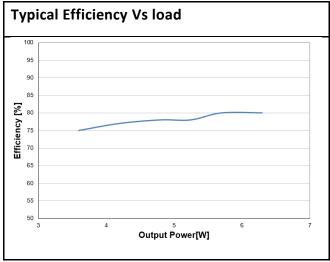
Terminal: Push in terminals

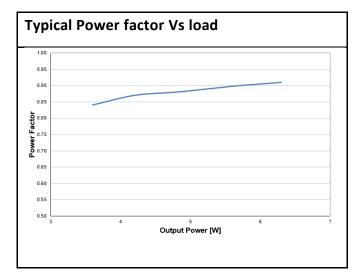
Max. cable length 2 m

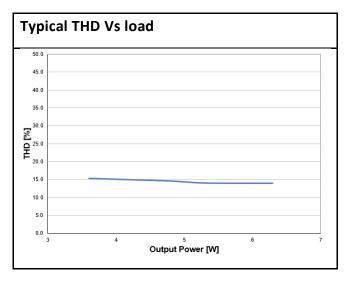
Weight:











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
4062172355438	ELEMENT 6/220-240/150	50

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Edition: Dec 16th, 2022 Version: 1.0 Status: Released Misprints and technical changes excepted