Light is OSRAM



ELEMENT 28/220-240/700 G3

Constant Current LED Power Supply

700mA

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) 3 years guarantee

Applications

Downlights, Spotlights and Panels Other Indoor LED luminaries

Approval marks

(Under preparation if on label)









I **B**1 В L1 103mm L1 94mm В 43mm В1 34.7mm Н 29mm

Product Features

Output currents: 700mA

Output voltage: 21V_{DC} – 40V_{DC}

Output power: 14.7W – 28W

Input voltage : 220 – 240 V_{AC}

Suitable for class I and II luminaires

30'000 h lifetime at tcmax = 80°C

Fixed Output (i.e. no dimming)

Typ. Efficiency: 88%

SELV

Ambient temp range, ta: -20°C to +50°

Electrical Specification

	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	142	mA	230Vac
	Total Harmonic Distortion (THD)	< 20	%	Full load, 230 V, 50 Hz / see graphs
Input	Power factor	0.97		Full load, 230 V, 50 Hz / see graphs
<u>=</u>	Efficiency	88	%	Full load, 230 V, 50 Hz, typical / see graphs
	No-load power	< 0.5	W	230V, typical
	Power loss	3.8	W	@230V, Input power 31.8W max.
	Protection class	1/11		Suitable for class I and class II luminaires
	Inrush current	< 9.3	А	t _{width} = 100 μs typical (measured at 50% lpeak)
	Max. units per circuit breaker	B10: 28; B16: 45; C10: 42; C16: 68		
	Leakage current	< 0.7	mA	Output floating
	Nominal voltage range	21 – 40	V _{DC}	
	Maximum voltage	60	V _{DC}	Open circuit
	Nominal current range	700	mA	
	Current accurancy	± 7.5 %		
put	Current ripple	< 5%		Ripple / average @ 100 Hz
Output	Pst LM	≤ 1		
	SVM	≤ 0.4		
	Nominal power range	14.7 – 28	W	Partial Load.
	Maximum power	28	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		
	Ambient temperature range ta	-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	
ent	Storage temperature range	-40+85	°C	Cool down before operating
Ē	Relative humidity	5 85	%	Not condensing
Environment	Surge transient protection	1 2	kV	L/N LN/PE acc. IEC 61547 Clause 5.7
=nv	Environmental rating	Indoor		
	IP rating	IP 20		
	Mains switching cycles	> 100'000		
	Expected lifetime	30'000 50'000	hrs	@t _{cmax} = 80°C, max. 10% failure rate @tc = 70°C, max. 10% failure rate

Status: Released

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

NA

Wiring

Terminal Push in terminals

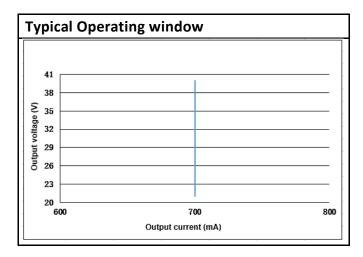
Max. cable length 2 m Weight: 72g Wire preparation:

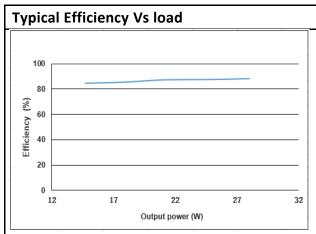
Push in s:0.5-1.5 f:0.75-1.5

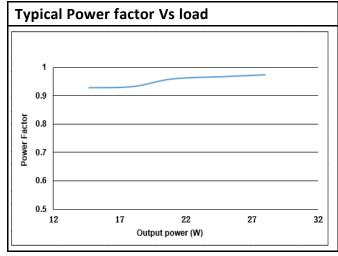
7-8 mm

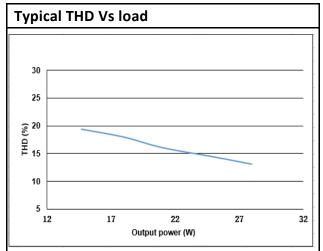
For build-in: 0.5-1.5 mm², for independent: 0.75-1.5 mm²

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	Pcs/ box
4062172167536	ELEMENT 28/220240/700 G3	20

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