

Light is OSRAM

OSRAM

## ELEMENT 30/220-240/700

### 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

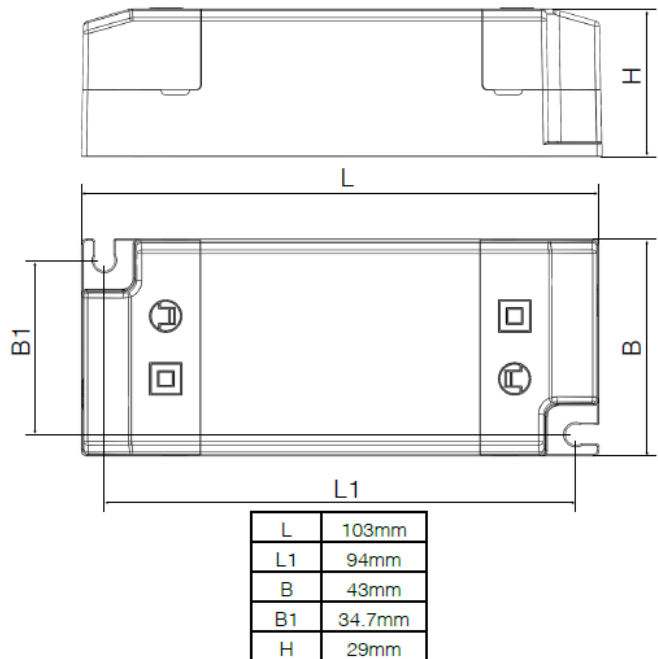
#### Benefits:

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

#### Applications

- Downlights, Spotlights and Panels
- Other Indoor LED luminaires

#### Approval marks



#### Product Features

- Output currents: 700mA
- Output voltage: 21V<sub>DC</sub> – 40V<sub>DC</sub>
- Output power: 14.7W – 28W
- Input voltage : 220 – 240 V<sub>AC</sub>
- Suitable for class I and II luminaires
- Up to 30'000 h lifetime
- Fixed Output (i.e. no dimming)
- Typ. Efficiency: 88%
- SELV
- Ambient temp range, ta: -20°C to +50°

## Electrical Specification

	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	141	mA	230Vac
	Total Harmonic Distortion (THD)	< 20	%	Full load, 230 V, 50 Hz / see graphs
	Power factor	0.95		Full load, 230 V, 50 Hz / see graphs
	Efficiency	88	%	Full load, 230 V, 50 Hz, typical / see graphs
	No-load power	n/a		Load switching on output side is not permitted
	Power loss	3.82	W	@230V, Input power 31.82W max.
	Protection class	II		Suitable for class I and class II luminaires
	Inrush current	< 20	A	twidth = 60 $\mu$ s typical (measured at 50% Ipeak)
	Max. units per circuit breaker	B10: 75; B16: 119; C10: 124; C16: 199		
	Leakage current	< 0.7	mA	Output floating
Output	Nominal voltage range	21 – 40	VDC	
	Maximum voltage	60	VDC	Open circuit
	Nominal current range	700	mA	
	Current accuracy	$\pm$ 7.5 %		
	Current ripple	< 5%		Ripple / average @ 100 Hz
	Pst LM	$\leq$ 1		
	SVM	$\leq$ 0.4		
	Nominal power range	14.7 – 28	W	Partial Load.
	Maximum power	28	W	Ta $\leq$ 50°C
	Galvanic isolation	SELV		3, 75 kVrms. Output to mains - Touch current < 0.7 mA
Dim	Dimming control	No		Non dimmable
	Dimming range	NA	%	
	Dimming technique	NA		
	Frequency	NA	Hz	
	Galvanic isolation	NA		
Environment	Ambient temperature range ta	-20 ...+50	°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	
	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 50'000	hrs	@tc = tc-max 75°C, max. 10% failure rate @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  $\leq 60V$

### Output under voltage

NA

## Wiring

Terminal Push in terminals

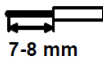
Max. cable length 2 m

Weight: 77g

### Wire preparation:

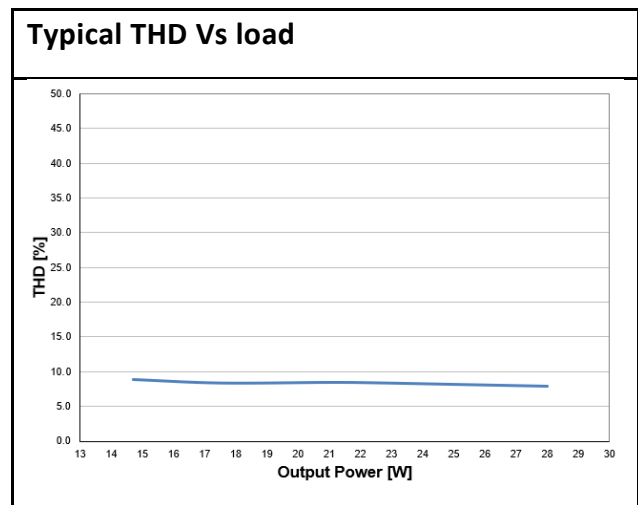
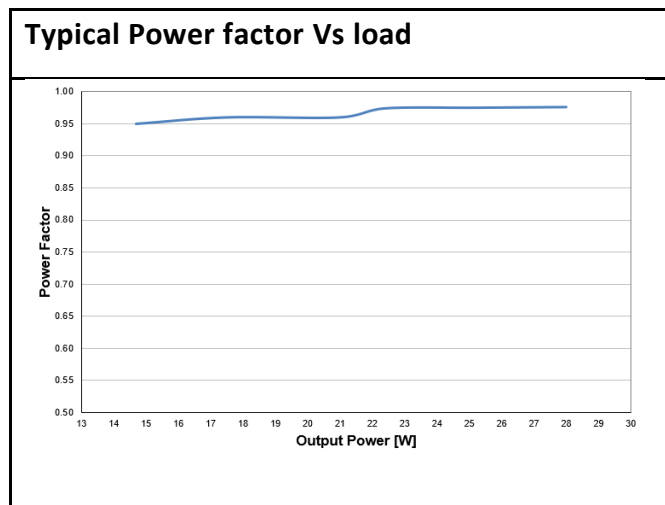
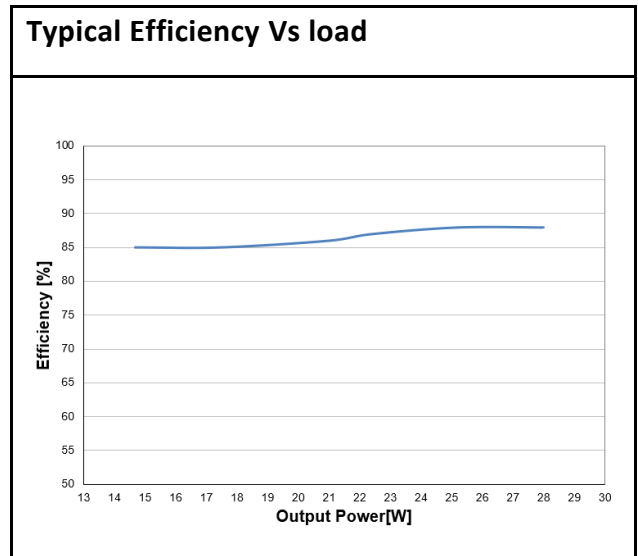
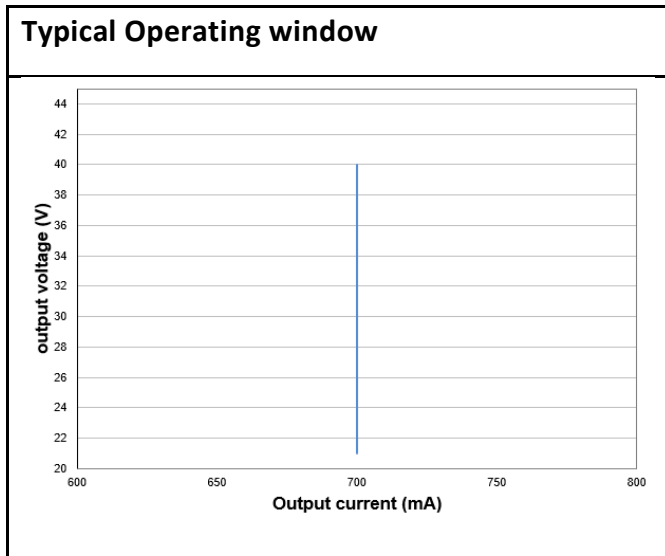
Push in  
s:0.5-1.5

f:0.75-1.5



For build-in: 0.5-1.5 mm<sup>2</sup>, for independent: 0.75-1.5 mm<sup>2</sup>

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
4062172355575	ELEMENT 30/220-240/700	50

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The OSRAM logo is displayed in a bold, orange, sans-serif font.