## **Light is OSRAM**



# **ELEMENT 35/220-240/900**

# Constant Current LED Power Supply 900mA

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**

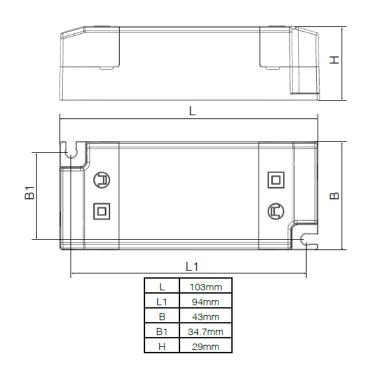












#### **Product Features**

Output currents: 900mA

Output voltage: 21V<sub>DC</sub> – 40V<sub>DC</sub>

Output power: 18.9W - 36W

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: 89%

**SELV** 

Ambient temp range, ta: -20°C to +50°

# **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	n/a	Vdc	
	Maximum voltage	300	V	2hrs
	Nominal current	187	mA	230V
	Total Harmonic Distortion (THD)	< 20	%	Full load, 230 V, 50 Hz / see graphs
Ħ	Power factor	0.95		Full load, 230 V, 50 Hz / see graphs
Input	Efficiency	89	%	Full load, 230 V, 50 Hz, typical / see graphs
	No-load power	n/a		Load switching on output side is not permitted
	Power loss	4.45	W	@230V, Input power 40.45W max.
	Protection class	II		Suitable for class I and class II luminaires
	Inrush current	30	А	twidth = 105 μs typical (measured at 50% lpeak)
	Max. units per circuit breaker	B10: 27; B16: 43; C10: 45; C16: 72		
	Leakage current	< 0.7	mA	Output floating
	Nominal voltage range	21 – 40	V <sub>DC</sub>	
	Maximum voltage	60	$V_{DC}$	Open circuit
	Nominal current range	900	mA	
	Current accuracy	± 7.5 %		
ă	Current ripple	< 5%		Ripple / average @ 100 Hz
Output	Pst LM	≤ 1		
0	SVM	≤ 0.4		
	Nominal power range	18.9 - 36	W	Partial Load.
	Maximum power	36	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 to max	75	°C	Measured on t <sub>c</sub> point indicated on the product label.
¥	Max. case temp. in fault condition	110	°C	
ner	Storage temperature range	-40+85	°C	Cool down before operating
onr	Relative humidity	5 85	%	Not condensing
Environment	Surge transient protection	1   2	kV	L/N   LN/PE acc. IEC 61547 Clause 5.7
Ш	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
ı		0000	0.0 00 0,

#### **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

7-8 mm

NA

### **Wiring Diagram**

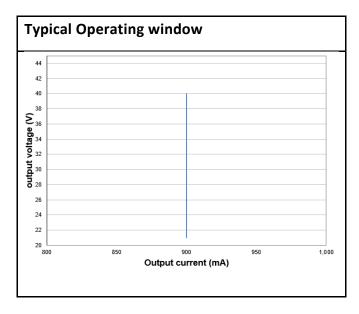
Terminal: Push in terminals

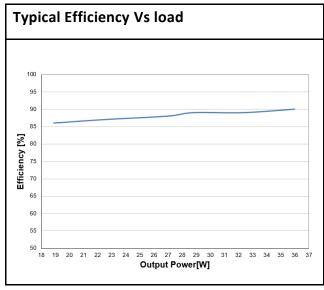
Max. cable length 2 m

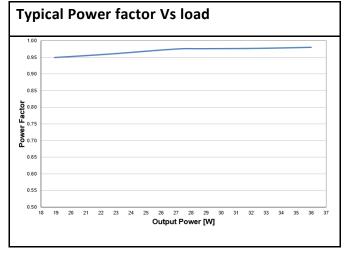
Weight: 89g

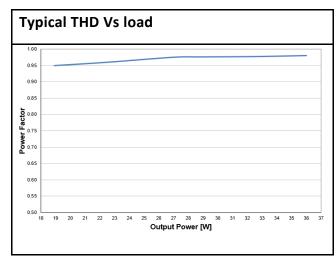
For build-in: 0.5-1.5 mm<sup>2</sup>, for independent: 0.75-1.5 mm<sup>2</sup>

Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs









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

#### **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
4062172355612	ELEMENT 35/220-240/900	50

OSRAM GmbH

Head office:

Marcel-Breuer-Strasse 6 80807 Munich, Germany Phone +49 89 6213-0 www.osram.com



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