

Light is OSRAM

**OSRAM****Product data sheet: ELEMENT 60/220-240/24****Constant Voltage LED Power Supply 24V**

The reliable choice for the decorative lighting, compact size and well tested by Osram quality standards, fits all flex applications in retails, hotel, restaurants and industries.

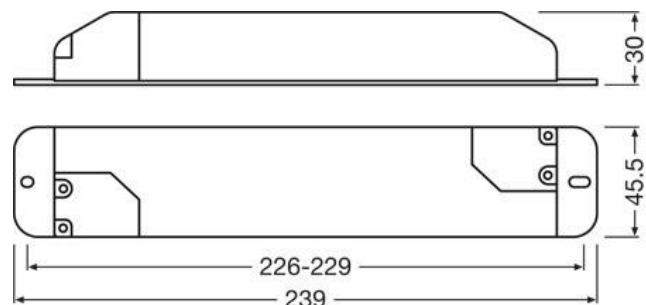
**Benefits**

System match with OSRAM flex;  
High efficiency up to 86%  
Class II design for wide applications  
Most optimized price/quality ratio

**Applications**

Hospitality – decorative lighting night light  
Restaurants – decorative lighting  
Shops – decorative lighting, shelf lighting  
Residential – cove lighting, under cabinet lighting

**Approval marks** (Under preparation if not shown on label)



L: 239mm
L1: 226mm – 229mm
W: 45.5mm
H: 30mm
H1: 11.5mm
R: 2.1mm

**Product Features**

- 24V constant output voltage
- SELV
- Output power up to 60W
- Mains voltage 220-240V
- High efficiency up to 86%
- 50`000 h lifetime at  $t_c = 75^\circ\text{C}$
- Overload protection
- Over temperature protection
- Short circuit protection
- Wide ta range:  $-20\dots +50^\circ\text{C}$
- Case temperature up to  $85^\circ\text{C}$

## Electrical Specifications

	Item	Value	Unit	Remarks
Input	Nominal Voltage	220 - 240	V <sub>AC</sub>	
	Nominal frequency	50 - 60	Hz	
	AC voltage range	198 – 264	V <sub>AC</sub>	Permitted voltage range
	Nominal current	0.4	A	230V, Refer to Table 1 for details
	Total Harmonic Distortion (THD)	< 20	%	Full load, 230 V, 50 Hz
	Power factor	> 0.9		Load from 30W to 60W at 220-240V, 50Hz
	Efficiency	> 86	%	Full load, 230 V, 50 Hz, typical
	Protection class	II		
	Inrush current	< 23	A pk	th = 1.7 ms
	Max. units per circuit breaker	B16: 29; B10:18		I max = 22.6 A
Output	Touch current	< 0.7	mA	
	Nominal voltage range	24	V <sub>DC</sub>	
	Minimum voltage	23.3	V <sub>DC</sub>	
	Maximum voltage	25	V <sub>DC</sub>	
	Voltage ripple (typical)	< 5	%	
	Nominal power range	20 – 60	W	
	Maximum power	60	W	
Environment	Galvanic isolation	SELV		
	Ambient temperature range t <sub>a</sub>	-20...+50	°C	Refer to table 1 for details
	Maximum case temperature t <sub>c</sub>	85	°C	Measured on t <sub>c</sub> point indicated of the product label. Refer to table 1 for details
	Max. case temp. in fault condition	110	°C	
	Storage temperature range	-20...+80	°C	Cool down before operating
	Relative humidity	5...95	%	Not condensing
	Surge transient protection	1	kV	L/N   LN/PE acc. IEC 61000-3-2 (ANSI C62.41 Cat.A...)
	Environmental rating	Indoor		
	IP rating	IP 20		
Mains switching cycles	> 50'000			
Expected lifetime	30'000	hrs	t <sub>c</sub> = 85°C, 10% failure rate.	
	50'000		t <sub>c</sub> = 75°C, 10% failure rate.	

### Protections

- **Output short circuit protection:** auto reversible when fault removed
- **Output overload protection:** auto reversible when fault removed
- **Over temperature protection:** the unit is protected against temporary overheating by shut down the unit; auto reversible when fault removed

### Standards

Safety: IEC 61347-1, IEC 61347-2-13

Performance: IEC 62384

Harmonic content: IEC 61000 3-2

Radio interference: CISPR 15

Immunity: IEC 61000-3-3

IEC 61547

Product name	EAN10	EAN40	Pieces / box
ELEMENT 60/220-240/24	4052899463790	4052899463806	20

OSRAM GmbH

Head Office:

Marcel-Breuer-Strasse 6

80807 Munich, Germany

Phone +49 89 6213-0

www.osram.com

