Light is OSRAM

OSRAM

ELEMENT 120/220-240/24 G2

24V Constant Voltage LED driver

A simple choice for the decorative lighting, well tested by OSRAM quality standard, fits 24V flex & Signage applications in retails, hotel, restaurants industries etc.

Benefits

Well design for Flex and Signage High efficiency up to 89% Class II design for wide application Excellent price/quality/watt ratio

Applications

Hospitality - decorative lighting, night light

Restaurants – decorative lighting Shops – decorative lighting, shelf lighting Residential – cove lighting, under cabinet lighting

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L	260mm
L1	252mm
В	40mm
Н	31mm

Approval marks



In preparation, if not already printed on product label

Product Features

24V constant output voltage

Output power up to 120W

SELV

Main voltage 220-240V

High efficiency up to 89%

PF>0.95

Screw terminal

Cable clamp integrated

Over load protection

Over temperature protection

Short circuit protection

Suitable for Class I/II luminaires,
 build-in & independent installation

Wide Ta range -20 - +50 °C

30'000 h @ Tc max

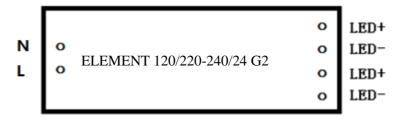
3Y guarantee

Electrical specifications

	Item	Value	Unit	Remarks	
Input	Nominal voltage	220 – 240	V		
	Mains frequency	50 / 60	Hz		
	Input voltage AC	198 – 264	V		
	Maximum voltage	280	Vac	2 h maximum, unit might not operate in this abnormal Condition	
	Nominal current	0.64	Α	At 230 Vac	
	Total Harmonic Distortion (THD)	< 15	%	Full load, 230 Vac, 50 Hz / 60 Hz see graphs	
	Power factor λ	0,95		Typical, Full load, 230 Vac, 50 Hz / 60 Hz, see graphs	
	ECG Efficiency	89	%	Typical, Full load, 230Vac, 50Hz, see graphs	
	Power loss	14.8	W	Full load, 230 Vac, 50Hz / 60Hz	
	Power loss in no load condition	<1	W	230Vac, 50Hz typical	
	Protection class	II		Suitable for safety class I and II luminaires	
	Suitable for fixtures with prot. Class	1/11			
	Inrush current	<32 Apk / 520 us			
	Max ECG no. on circuit breaker 10A	B:5			
		C:8			
	Max ECG no. on circuit breaker 16A	B:8			
		C:12			
	Max ECG no. on circuit breaker 25A	B:12			
		C:20			
	Nominal output voltage	24	V		
	Voltage accuracy	+/- 3	%		
Output	Voltage ripple	< 3	%	Ripple / average @ 100 Hz; Full load	
	Nominal output power	120	W	Power Factor, Harmonics and EMI TBD W	
	Maximum power	120	W	LED output	
	Capacitive load	20	uF/A		
	Galvanic isolation	SELV			
	U-OUT	25	V		
	Ambient temperature range	-20 - +50	°C		
	Max. temperature at tc test point operation	90	°C	Measured on tc point indicated of the prod label, ta not exceeded	
	Max. case temp. in fault condition	110	°C		
ENTAL	Storage temperature range	-40 - +85	°C		
	Permitted rel. humidity during	5 – 85	%	Not condensing	
	Surge capability (L/N)	1	kV	L/N acc to. EN 61547	
	Environmental rating	Indoor			
Σ	IP protection class	IP 20			
ENVIRONMENTAL	Mains switching cycles	> 50'000			
	Expected lifetime	30'000 50'000	h	At tc max with 10% failure rate At tc-10°C with 10% failure rate	
	No-load proof	Yes			
	Overheating protection	Yes		Automatically restart	
	Overload protection	Yes		Automatically restart	
	Short-circuit protection	Yes		Automatically restart	
	Dimension	260x40x31	mm	LxWxH	
	Weight	386	g		
	Casing material	Plastic			

Protections

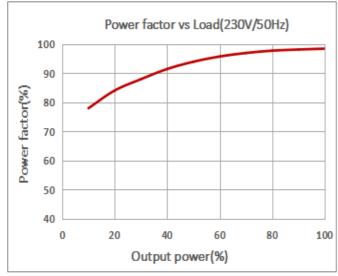
Over temperature, Overload, Short-circuit. Reversible

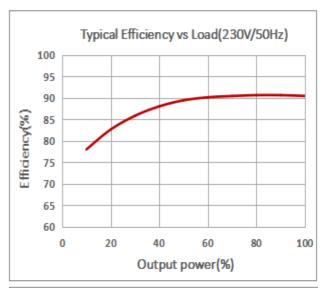


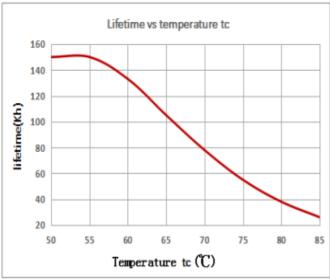
Cable and wire preparation

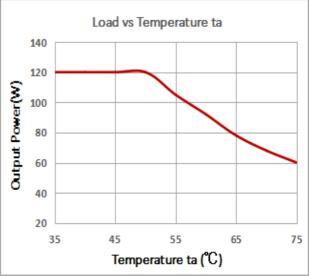
- Input wires cross section: 0.75 1,5 mm²
- Output wires cross section: 0.75-1.5 mm²
- Wire peeling length: input 5 mm; output 5 mm
- Load wires length: 3 m verified
- Cable recommendation:

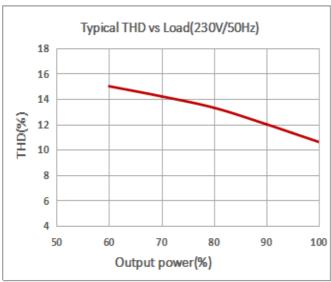
H05VVH2-F 2*0.75mm²; H05VVH2-F 2*1.0mm²; H03VVH2-F,2x0.75mm²











Status: Final

Remarks

- 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
- **Dimming compatibility:** The Element driver is able work with OSRAM dimmer as dimmable solution. For example: OTi DALI DIM, OT DIM, OT RGBW DIM, OT BLE DIM. It is recommended to check the performance of total system in design-in stage.

Ordering information

Product name	EAN 10	EAN 40	Pieces / box
ELEMENT 120/220-240/24 G2	4052899605541	4052899605558	20

Standards

Safety:

EN/IEC 61347-1, EN/IEC 61347-2-13 Performance: EN/IEC 62384 Harmonic content: EN/IEC 61000-3-2

Radio interference: CISPR 15

Immunity:

EN/IEC 61000-3-3 EN/IEC 61547

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