

ELEMENT 180/220-240/24 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 91%
- 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

Approval marks



In preparation, if not already printed on product label



L	300mm
L1	292mm
B	40mm
H	31mm

Product Features

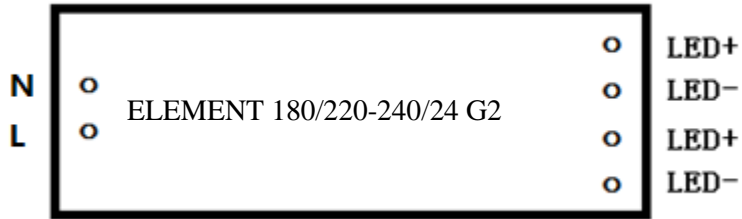
- 24V constant output voltage
- Output power up to 180W
- SELV
- Main voltage 220-240V
- High efficiency up to 91%
- PF>0.95
- Screw terminal
- Cable clamp integrated
- Over load protection
- Over temperature protection
- Short circuit protection
- Suitable for Class I/II luminaires, build-in & independent 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	0.9	A	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	91	%	Typical, Full load, 230Vac, 50Hz, see graphs
	Power loss	17.8	W	Full load, 230 Vac, 50/60Hz
	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	I / II		
	Inrush current	<40 Apk / 765 us		
	Max ECG no. on circuit breaker 10A	B:3 C:5		
	Max ECG no. on circuit breaker 16A	B:5 C:9		
Max ECG no. on circuit breaker 25A	B:8 C:14			
Output	Nominal output voltage	24	V	
	Voltage accuracy	+/- 3	%	
	Voltage ripple	< 3	%	Ripple / average @ 100 Hz; Full load
	Nominal output power	180	W	
	Maximum power	180	W	LED output
	Capacitive load	20	uF/A	
	Galvanic isolation	SELV		
	U-OUT (working voltage)	25	V	
ENVIRONMENTAL	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	
	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		
	IP protection class	IP 20		
	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	300x40x31	mm	L x W x H
Weight	472	g		
Casing material	Plastic			

Protections

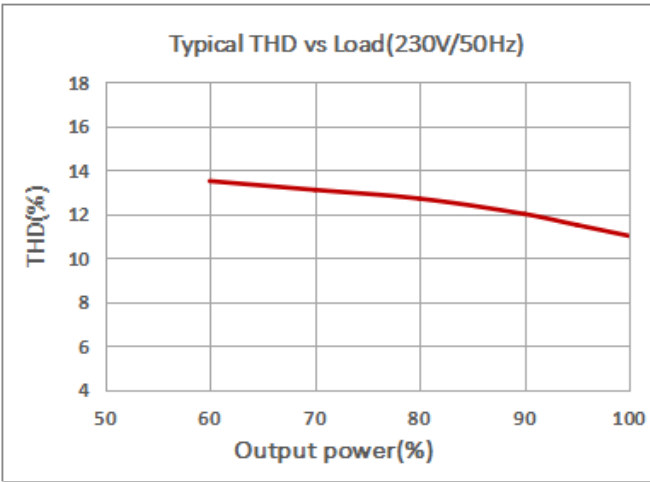
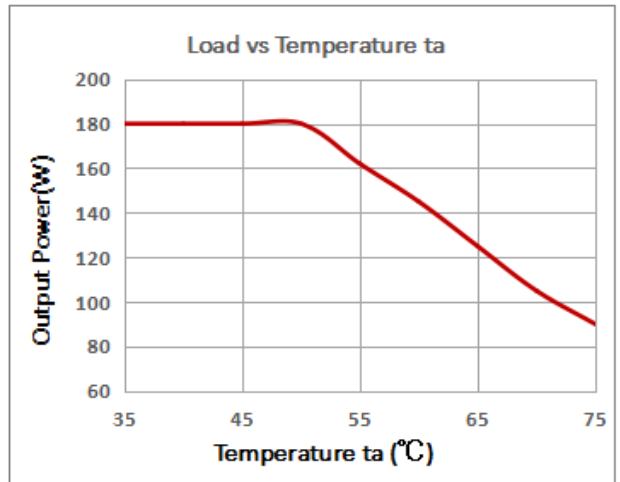
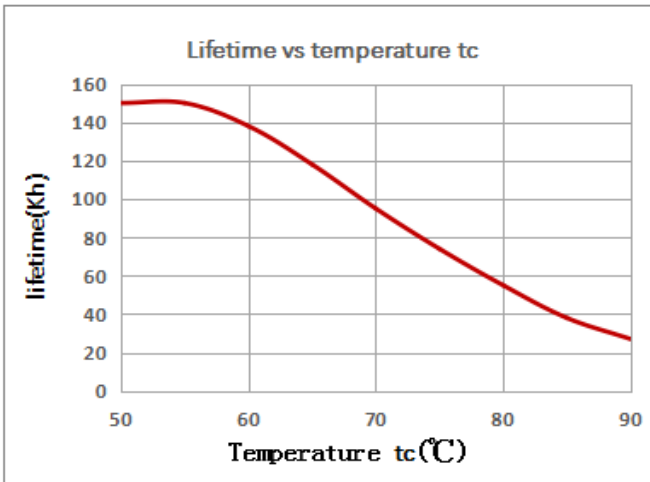
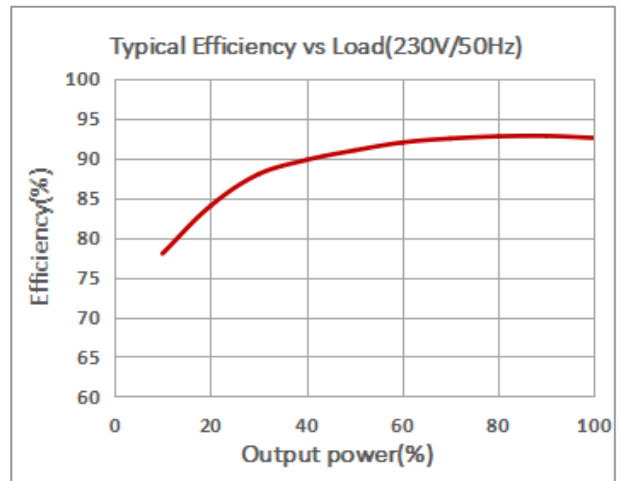
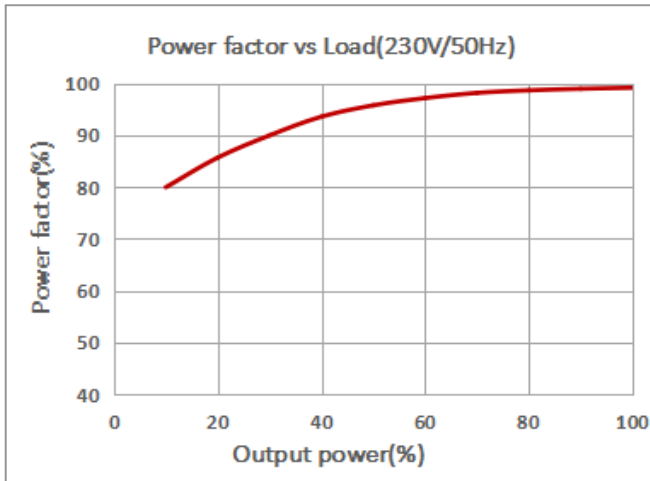
Over temperature, Overload, Short-circuit. Reversible



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



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.
- **Distance away of wall/wooden board:** put the driver 2cm (side and top) away from wall / wooden board.

Ordering information

Product name	EAN 10	EAN 40	Pieces / box
ELEMENT 180/220-240/24 G2	4052899605565	4052899605572	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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