Element 18 / 220 - 240 / 350 D CS L

Constant Current LED Power Supply

200mA - 250mA - 300mA- 350mAyES

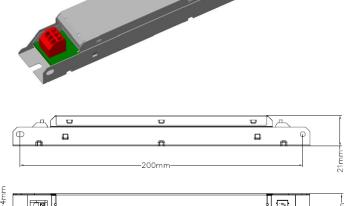
Element linear LED Power Supply is the reliable choice for linear and area fixtures for office industrial - shop lighting;

Benefits

Flexible with 1 driver offers 4 output currents; Simple current selection via dip switch Enable slim fixture design with flat 21mm height metal housing OSRAM quality and reliability

Applications

Linear and area lighting Office - industrial - shop



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Approval marks (under preparation if not on label)







White metal housing

Product features

- Output current: 200/250/300/350mA
- Wide Output voltage range
- Output power: 5W 18.9W
- Low THD < 20% @ full load
- Power Factor up to 0.95

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- Fixed output (no dimming)
- Overload, short & open circuit protection
- Efficiency up to 88%
- 50,000 hours lifetime at tc= 65C
- Ambient temp range t_a: -20 to +50°C

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Electrical Specifications

	Item	Value	Unit	Remarks
<u>.</u>	Nominal voltage	220 – 240	V_{AC}	
	Nominal frequency	50 / 60	Hz	
	AC voltage range	198 – 264	V_{AC}	Permitted voltage range
	DC voltage range	NA	V	<u> </u>
	Maximum voltage	300V	V_{AC}	2hours
	Nominal current	0.09	Α	
	Total Harmonic Distortion (THD)	<20	%	Full load, 230 V, 50 Hz / see graphs
	Power factor	0.97		Full load, 230 V, 50 Hz / see graphs
INPUT	Efficiency	88	%	Full load, 230 V, 50 Hz, typical / see graphs
Z	No-load power	<0.5	W	230V, typical
	Stand-by power	NA	W	
	Power loss	2.4	W	at 230V, Input power 20.9W max.
	Protection class	class I		Suitable for class I luminaires
	Inrush current	8.6	Α	t _{width} = 126 μs typical (measured at 50% lpeak)
	Max. units per circuit breaker	B16:70; B10:40 C16:116 ; C10: 70		
	Leakage current	<0.7	mΑ	Output floating
	Nominal voltage range	25-54	V_{DC}	
	Maximum voltage	80	V_{DC}	Open circuit
5	Nominal current range	200/250/300/350	mΑ	
OUTPUT	Current accuracy	+/- 7.5%		
5	Current ripple (typical)	<30%		Ripple / average @ 100 Hz
0	Nominal power range	5 -18.9	W	Partial Load. Refer to Table 1 for details
	Maximum power	18.9	W	Ta ≤ 50°C, Refer to Table 1 for details
	Galvanic isolation	Non isolated		
	Ambient temperature range t _a	-20+50	°C	Refer to Table 1 for details
	Maximum case temperature t _c	75	°C	Measured on t_c point indicated of the product label.
	Max. case temp. in fault condition	TBD	°C	
눌	Storage temperature range	-25+85	°C	Cool down before operating
岁	Relative humidity during operation	5 85	%	Not condensing
Z	Surge transient protection	1/2	kV	L/N LN/PE acc. IEC 61547
ENVIRONMENT	Environmental rating	Indoor		
	IP rating	IP20		
	Mains switching cycles	> 100'000		
	Expected lifetime	35000 50000	hrs	t _c Max =75°C, 10% failure rate t _c Max =65°C, 10% failure rate

Protections

Overload

Yes, reversible

No load

Weight:

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Yes, reversible **Short-circuit**

Yes, reversible

Input overvoltage

Maximum allowed input voltage 300 V AC/ 2 hours

Output overvoltage

Yes, Limitation of Output voltage < 80V

Output under voltage

Yes, protected under 20V

Wiring Diagram

Terminal: Max. cable length excl. modules: Geometry (I x b x h):

TBD 210X30X21 mm

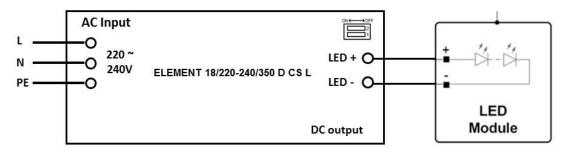
Push in terminals

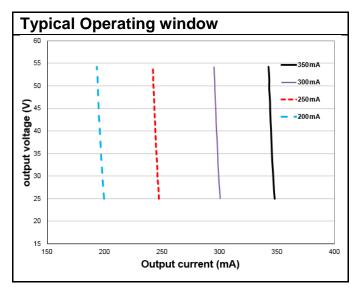
102g

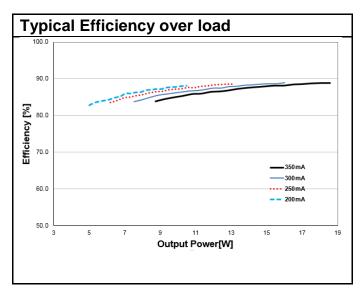
Wire preparation: Push in s:0.5-1.5 f:0.75-1.5

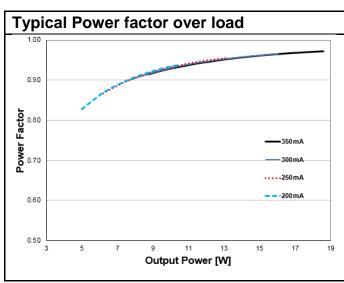
7-8 mm

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









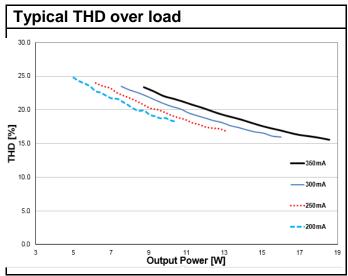


Table 1 - Rated output power and current sets							
lout (mA)	200	250	300	350			
U min [V]	25	25	25	25			
U max [V]	54	54	54	54			
P min [W]	5	6.2	7.5	8.7			
P max [W]	10.5	13.1	16	18.6			
Ta [°C]	50	50	50	50			
Tc [°C]	75	75	75	75			
Line Current, nominal@230V A	0.056	0.068	0.082	0.095			
Max Power Loss@230V [W]	1.4	1.7	2.0	2.4			
Input Power @230V [W]	11.9	14.8	18	20.9			

Pin1	Pin2	Currents (mA)	
OFF	OFF	200	
OFF	ON	250	
ON	OFF	300	
ON	ON	350	

Current selection by DIP-switch

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Standards

Safety: IEC 61347-1, IEC 61347-2-13 Performance: IEC 62384

Harmonic content: IEC 61000-3-2 Immunity: IEC 61000-3-3 IEC 61547

Product name	EAN10	EAN40	Pieces / box
ELEMENT 18/220-240/350 D CS L	4052899553071	4052899553088	20

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