Element 40 / 220 - 240 / 350 D CS L

Constant Current LED Power Supply

200mA - 250mA - 300mA- 350mA

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 Very high efficiency up to 92% OSRAM quality and reliability

Applications

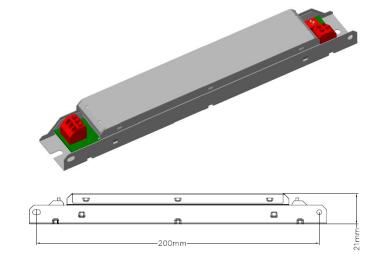
Linear and area lighting Office – industrial - shop

Approval marks (under preparation if not on label)









White metal housing

Product features

- Output current: 200/250/300/350mA
- Wide output voltage
- Output power: 11W 40W
- Low THD < 20% @ full load
- Power Factor up to 0.98

- Fixed output (no dimming)
- Overload, short & open circuit protection
- Efficiency up to 92%
- 50,000 hours lifetime at tc= 65C
- Ambient temp range t_a: -20 to +50°C

Electrical Specifications

	Item	Value	Unit	Remarks
	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	
	Maximum voltage	300	V_{AC}	2hrs
	Nominal current	0.19	Α	@ 230V
	Total Harmonic Distortion (THD)	<20	%	Full load, 230 V, 50 Hz / see graphs
5	Power factor	0.98		Full load, 230 V, 50 Hz / see graphs
INPUT	Efficiency	92	%	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	2.6	W	at 230V
	Protection class	class I		Suitable for class I luminaries
	Inrush current	13.5	Α	t _{width} = 170 μs typical
	Max. units per circuit breaker	B16:28; B10:16 C16:45 ; C10:30		
	Leakage current	< 0.7	mΑ	Output floating
	Nominal voltage range	55-120	V_{DC}	@ 200/250/300/350mA output current, Refer to Table 1 for details
	Maximum voltage	160	V_{DC}	Open circuit
5	Nominal current range	200/250/300/350	mA	
OUTPUT	Current accuracy	+/- 7.5%		
5	Current ripple (typical)	<30%		Ripple / average @ 100Hz
0	Nominal power range	42	W	Partial Load. Refer to Table 1 for details
	Maximum power	11 - 42	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 $t_{\mbox{\tiny c}}$ point indicated of the product label.
١.	Max. case temp. in fault condition	TBD	°C	
E	Storage temperature range	-25+85	°C	Cool down before operating
ENVIRONMENT	Relative humidity during operation	585	%	Not condensing
	Surge transient protection	1/2	kV	L/N LN/PE acc. IEC 61000-3-2
	Environmental rating	Indoor		
	IP rating	IP20		
	Mains switching cycles	> 100'000		
	Expected lifetime	35000	hrs	t _c Max =75°C, 10% failure rate.
		50000		t _c Max =65°C, 10% failure rate.

Protections Overload

Yes, reversible

No load

Yes, reversible

Short-circuit

Yes, reversible

Output of

Output overvoltage

Input overvoltage

Yes, Limitation of Output voltage <160V

Maximum allowed input voltage 300 V AC/ 2 hours

Output under voltage

Yes, protected under 48 V

Wiring Diagram

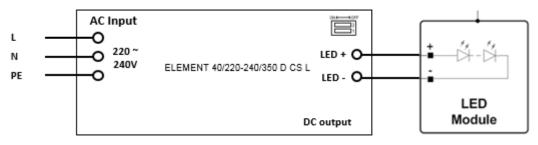
Terminal: Push in terminals

Max. cable length excl. modules: TBD

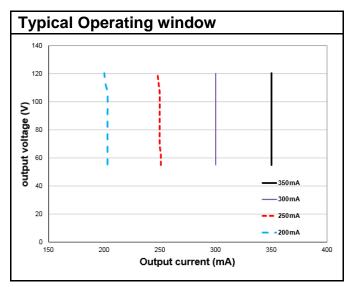
Geometry (I x b x h): 210X30X21 mm Weight: 126 g

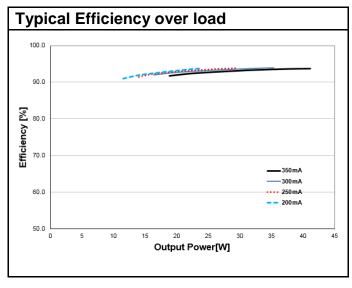
Wire preparation: Push in s:0.5-1.5 f:0.75-1.5

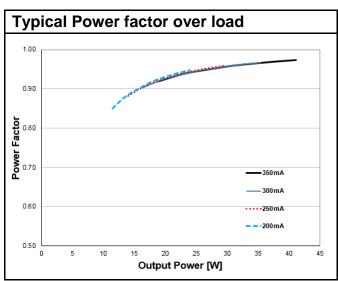
Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.



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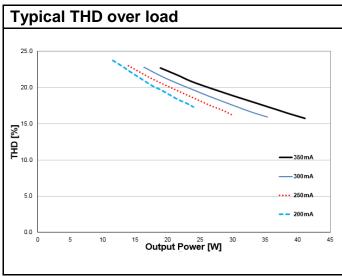


Table 1 - Rated output power and current sets						
lout (mA)	200	250	300	350		
U min [V]	55	55	55	55		
U max [V]	120	120	120	120		
P min [W]	11	14	16.5	20		
P max [W]	24	30	35.5	41		
Ta [°C]	50	50	50	50		
Tc [°C]	75	75	75	75		
Line Current, nominal@230V A	0.147	0.168	0.186	0.188		
Max Power Loss@230V [W]	1.5	1.7	2.0	2.8		
Input Power @230V [W]	25.5	31.7	37.5	43.8		

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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Status: draft

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 40/220-240/350 D CS L	4052899553095	4052899553101	20

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