Element LD 60W

Constant Current LED Power Supply

1400mA

Element LED Power Supply with high efficiency and reliability in small compact housing fits in light fixtures for office and shop lighting.

Benefits

High compatibility with COBs and discrete LEDs; High efficiency and reliability Simple to use with easy installation and LED connection

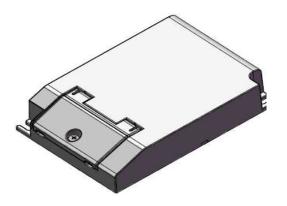
Applications

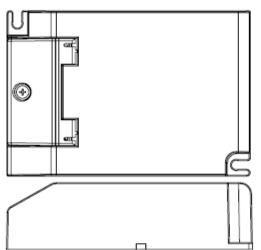
Spotlight; Downlight; Other Indoor LED luminaries

Approval marks

(Under preparation if not shown on label)







Product Features

Output currents :1400mA

Output voltage: 21V_{DC} – 42V_{DC}

Output power: 29W - 59W

Input voltage : 220 – 240 V_{AC}

• Typ. Efficiency : ≥ 90%

• 30'000 h lifetime at t_c = 85℃

Ambient temp range,t_a: -10℃ to +45℃

Max. case temperature at t_c point : 85℃

Galvanic isolation: 3.75kVrms

Suitable for class I and II luminaries

Fixed Output (i.e. no dimming)

OSRAM OSRAM

Electrical Specifications

	Item	Value	Unit	Remarks	
	Nominal voltage	220 – 240	V_{AC}		
INPUT	Nominal frequency	50 - 60	Hz		
	AC voltage range	198 – 264	V _{AC}	Permitted voltage range	
	DC voltage range	NA	V	1 emilied voltage range	
	Maximum voltage	275	V	2hrs	
	Nominal current	320	mA	230V. Refer to Table 1 for details	
	Total Harmonic Distortion (THD)	< 10	%	Full load, 230 V, 50 Hz / see graphs	
	Power factor	0.98	70	Full load, 230 V, 50 Hz / see graphs	
	Efficiency	> 90	%	Full load, 230 V, 50 Hz, typical / see graphs	
	No-load power	< 1.5	W		
	Stand-by power	< 1.5 NA	W	230V, typical	
			W	at 230V, Input power 67.8 W max. Refer to Table 1 for details	
	Power loss	8.8	VV		
	Protection class	1/11	^	Suitable for class I and class II luminaires	
	Inrush current	<16	Α	t _{width} = 50 μs typical (measured at 50% Ipeak)	
	Max. units per circuit breaker	B16: 20; B10: 15		0 + +0 +0	
	Leakage current	< 0.7	mA	Output floating	
	Nominal voltage range	21 – 42	V _{DC}	Refer to Table 1 for details	
	Maximum voltage	60	V _{DC}	Open circuit	
5	Nominal current range	1400	mA		
OUTPUT	Current accuracy	±10 %		B)	
≒	Current ripple (typical)	± 15%		Ripple / average @ 100 Hz	
U	Nominal power range	29 – 59	W	Partial Load. Refer to Table 1 for details	
	Maximum power	59	W	Ta ≤ 50°C, Refer to Table 1 for details	
	Galvanic isolation	SELV		3,75 kVrms . Output to mains - Touch current < 0.7 mA	
رى ن	Dimming control	No		Not dimmable	
Ž	Dimming range	NA	%		
DIMMING	Dimming technique	NA			
듬	Frequency	NA	Hz		
	Galvanic isolation	NA			
	Tested cable types: according to IEC60598				
Cable clamp	Input side	H03VV-F 2x0.75	75	Cable type	
<u> </u>	Outrost side	H03VV-H2F 2x0.7	75	Oak la trons	
٥	Output side	H03VV-F 2x0.75 H03VV-H2F 2x0.7	75	Cable type	
	Ambient temperature range t _a	-10+45	°°	Refer to Table 1 for details	
	Maximum case temperature t _c	85	Ĉ	Measured on t c point indicated of the product label. Refer to Table 1	
	Maximum case temperature te	00	Ü	for details	
١.	Max. case temp. in fault condition	110	${\mathfrak C}$		
Ξ	Storage temperature range	-10+85	C	Cool down before operating	
ENVIRONMENT	Relative humidity	5 85	%	Not condensing	
	Surge transient protection	1 2	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	> 100'000			
	Expected lifetime	30'000	hrs	t _c = 85℃, 10% failure rate	
		30 000	0	-0 -11 -1 10/0/00/00/00/00	
L					

Protections

Over temperature

Shutdown, reversible with mains power on/off

Overload

Shutdown, reversible with mains power on/off

No load Yes

Short-circuit

Automatic, auto reversible

Wiring Diagram

Terminal: Push in terminals

Max. cable length - system: 2

Geometry (l x b x h): 110 x 75 x 29.5 mm

Weight: 185 g

Input overvoltage

Maximum allowed input voltage 275V AC

Output overvoltage

Yes, Limitation of Output voltage < 60V

Output under voltage

NA

LED load protection

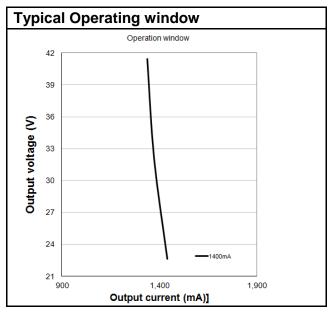
NA

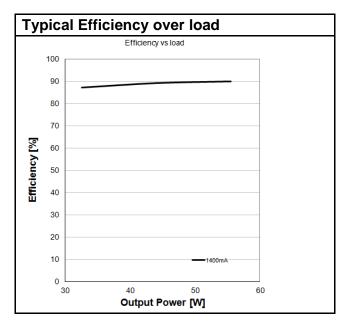
Wire prepar	ation (Push in)	
Built in	Independent	
s: 0.5 - 1.5 🗆	0.75 - 1.5 [□]	
f: 0.75 - 1.5 🗆		

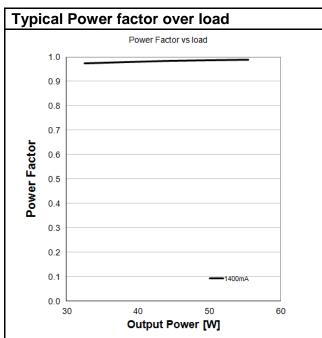


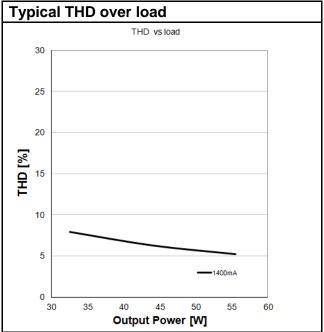
Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.

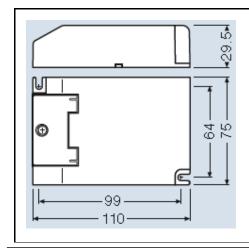












L x W x H: 110 x 75 x 29.5 mm

Table 1 - Rated output power and current sets			
lout (mA)	1400		
U min [V]	21		
U max [V]	42		
P min [W]	29		
P max [W]	59		
Ta [℃]	45		
Tc [℃]	85		
Line Current, nominal@230V mA	320		
Max Power Loss@230V [W]	8.8		
Input Power @230V [W]	67.8		

Table 2 - Expected lifetime				
Ta= 50℃ , Tc [℃] , All lout	85℃			
Lifetime	30'000h			

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 LD 60W	4052899947139	4052899947207	20

Manufacturer's address:

Technical support:

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