Light is OSRAM



ELEMENT EM DIM 65 / 220 – 240 /1A5 CS F L

Constant Current LED Power Supply

1000/1250/1400/1500mA

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

Benefits

High efficiency up to 88%
Enable slim fixture design with flat 16.5mm height metal housing 0-10V dimming with DIM to off functionality
SELV driver

Applications

Linear and area lighting Office – shop

Approbations & Certifications KC / CE / UKCA/ CCC / RCM /TISI

In preparation, if not already printed on product label

Product Features

Output current:

1000/1250/1400/1500mA

Output Voltage:

30-45V;

• Output power :

30-67.5W

Input voltage: 220 – 240V_{AC}

• 0-10V dimming with dim to OFF

• High efficiency up to 88%

Low THD < 15% @ full load

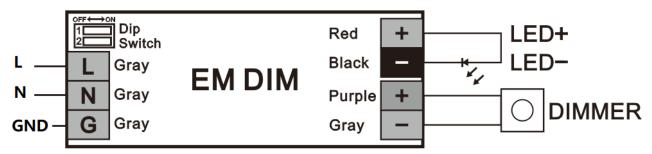
Low ripple < 5%

Ambient temp range ta: -25 to +50°C

35,000Hrs lifetime @ Tc Max

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Nominal voltage 220 - 240 V	
Nominal frequency 50 / 60	
AC voltage range	
Maximum voltage 300	
Nominal current Nominal current range Nominal current Nominal current range Nominal curren	
Total Harmonic Distortion (THD)	eak)
Power factor ≥ 0.95 Full load, 230 V, 50 Hz / see graphs	eak)
Efficiency Stand-by power 0.5 W	eak)
Efficiency Stand-by power 0.5 W	eak)
Protection class 1	eak)
Protection class 1	eak)
Inrush current	eak)
Leakage current	eak)
Leakage current	
Max. units per circuit breaker	
Maximum voltage 60 Vdc w/ Open Circuit Nominal current range 1000/1250/1400/1500 mA Current accuracy +/- 7.5 % Current ripple 100Hz < 5	_
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Nominal current range Current accuracy +/- 7.5 Current ripple 100Hz Pst LM SVM Nominal power range Maximum power 67.5 SELV Galvanic isolation Double isolation Supplementary isolation Dimming control MA Ripple / average @ 100 Hz Ripple / average @ 100 Hz W Partial Load. Refer to Table for details Output to mains DIM to mains DIM to Output DIM to Output	
Current accuracy +/- 7.5 % Current ripple 100Hz < 5 % Ripple / average @ 100 Hz Pst LM ≤ 1 SVM ≤ 0.4 Nominal power range 30-67.5 W Partial Load. Refer to Table for details Maximum power 67.5 Galvanic isolation Double isolation Supplementary isolation DIM to output Dimming control Yes	
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SELV Output to mains Double isolation DIM to mains Supplementary isolation DIM to Output Dimming control Yes	
Galvanic isolation Double isolation DIM to mains Supplementary isolation DIM to Output Dimming control Yes	
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Σੋ	
Dimming Standard NA	
Ambient temperature range t _a -25+50 °C	
Maximum case temperature t _c 75 °C Measured on t _c point indicated of the produc	ict label
Max. case temp. in fault condition 110 °C	
➡ Storage temperature range -25+80 °C	
Storage temperature range -25 +80 °C Relative humidity 5 85 % Not condensing Surge transient protection 4 1 2 kV 4 1/N 1 1 N 1/D age to FN 64547 Clause 5 7	
Surge transfers protection 1 2 KV EN EN/F L acc to: EN 01347 Clause 3.7	
Dimension 310x23x16.5 mm L*W*H+/-0.5mm	
Weight 175 g	
Mains switching cycles > 100'000	
Expected lifetime $35'000$ hrs $t_{cmax} = 75^{\circ}C$, max. 10% failure rate $t_{cmax} = 65^{\circ}C$, max. 10% failure rate	



Load wire length: 2m max

Wires cross section: solid wire 0.5-1.5 mm² / flexible leads 0.75 – 1.5 mm²
Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs. Indication that the lamp control gear relies upon the luminaire enclosure for protection against accidental contact with live part

Protections

Over temperature

Automatic, auto reversible

Overload

Automatic, auto reversible

No load

Yes

Short-circuit

Automatic, auto reversible

Input overvoltage

Maximum allowed input voltage 300V AC

Output overvoltage

Yes, Limitation of Output voltage < 60V

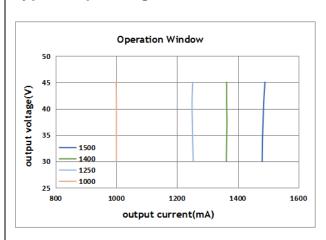
Output undervoltage

NA

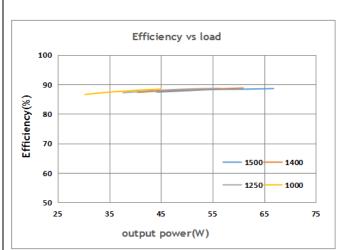
LED load protection

NA

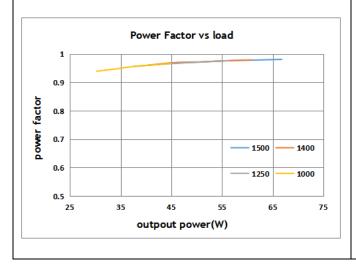
Typical Operating window



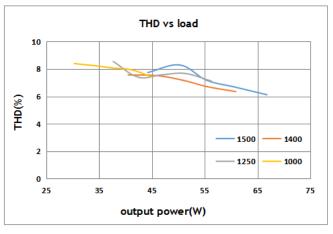
Typical Efficiency vs load

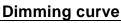


Typical Power factor vs load



Typical THD vs load





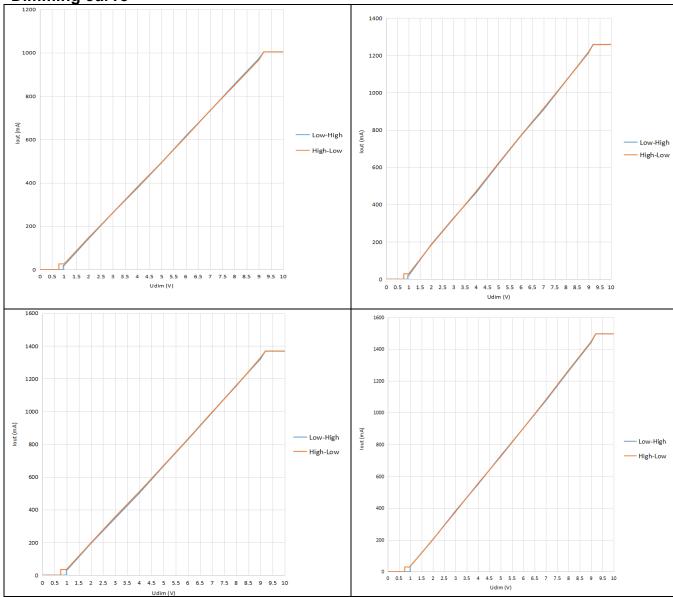


Table 1 - Rated output power and current sets				
lout [mA]	1000	1250	1400	1500
U min [V]	30	30	30	30
U max [V]	45	45	45	45
P min [W]	30.0	37.5	42.0	45.0
P max [W]	45.0	56.3	63.0	67.5
Ta [°C]	50	50	50	50
Tc [°C]	75	75	75	75
Line Current, nominal@230V [A]	0.233	0.285	0.317	0.340
Max Power Loss@230V [W]	6.14	7.67	8.59	9.20
Input Power @230V [W]	51.14	63.92	71.59	76.70

PIN1	PIN2	Irated[mA]
OFF	OFF	1000
OFF	ON	1250
ON	OFF	1400
ON	ON	1500

Current selection by DIP-switch

Note:

System compatibility with dimmer, controller and LED module need to be verified before product purchasing, installation or operation.

Ecodesign regulation information:

Intened for use with constant current LED module

The forward voltage of the LED light source must be within the defined operating window of the control gear in all dimming positions

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

For Austrailia and New Zealand

Risk of ele

Risk of electric shock

WARNING: FELV terminals marked "Risk of electric shock" are not safe to touch. WARNING: Circuits connected to any FELV control terminal shall be insulated for the LV supply voltage of the controlgear and any terminals connected to the FELV circuit shall be protected against accidental contact.

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Standards

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

Performance: IEC 62384

Harmonic content: IEC 61000-3-2

Immunity: IEC 61000-4-5

IEC 61547

Product name	EAN10	EAN40	Pieces / box
EM DIM 65/220-240/1A5 CS F L	4062172311144	4062172311151	30

Recommended dimmer	EAN10	EAN40	Pieces / box
DIM MCU G2	4062172224642	4062172224659	48

Head Office:

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