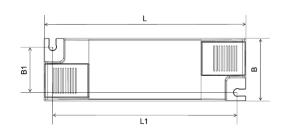
inventronics

EM 30/220-240/700 II

Constant Current LED Power Supply 700mA

Element LED Power Supply fits in light fixtures for office, shop lighting or other indoor applications that require high quality of light





L	119mm		
L1	109mm		
В	37mm		
B1	27mm		
Н	27.5mm		

Benefits:

High compatibility with COBs and discrete LEDs; High quality of light with ripple current < 5% Safe and reliable Safety ensured by OSRAM (SELV)

Applications

Panel lights, Downlights and other indoor luminaires For class II luminaires, independent installations

Approval marks and Symbol



Product Features

- Output currents: 700mA
- Output voltage: 30VDC 42VDC
- Output power: 21W 29.4W
- Input voltage : 220 240 VAC
- Suitable for class II luminaires

- 35'000 h lifetime at tc max = 75 °C
- Fixed Output (i.e. no dimming)
- Typ. Efficiency: 88%
- SELV
- Ambient temp range, ta: -20°C to +40°C

Electrical Specifications

	Item	Value	Unit	Remarks
	Nominal Voltage	220 – 240	Vac	
	Nominal frequency	50/60	Hz	
	AC voltage range	198 – 264	Vac	Permitted voltage range
	DC voltage range	176 – 280	Vdc	Operational for safety
	Maximum voltage	300	V	2hrs
	Nominal current	150	mA	220V
ut	Total Harmonic Distortion (THD)	< 15	%	Full load, 230 V, 50 Hz / see graphs
Input	Power factor	0.95		Full load, 230 V, 50 Hz / see graphs
-	Efficiency	88	%	Full load, 230 V, 50 Hz, typical / see graphs
	No-load power	NA	W	230V, typical
	Power loss	4	W	@230V, Input power 33.4 W max.
	Protection class	II		Suitable for class II luminaires
	Inrush current	33.8	А	twidth = 142 µs typical (measured at 50% lpeak)
	Max. units per circuit breaker	B10: 38; B16: 61; C10: 50; C16: 80		
	Leakage current	< 0.7	mA	Output floating
	Nominal voltage range	30 – 42	V_{DC}	
	Maximum voltage	60	V _{DC}	Open circuit
÷	Nominal current range	700	mA	
Output	Current accurancy	±7.5 %		
Duf	Current ripple	< 5%		Ripple / average @ 100 Hz
0	Nominal power range	21 – 29.4	W	Partial Load
	Maximum power	29.4	W	Ta ≤ 40°C
	Galvanic isolation	SELV		3, 75 kVrms. Output to mains - Touch current < 0.7 mA
	Dimming control	No		Not dimmable
_	Dimming range	NA	%	
Dim	Dimming technique	NA		
_	Frequency	NA	Hz	
	Galvanic isolation	NA		
	Ambient temperature range ta	-20+40	°C	
	Max. case temperature $t_{\mbox{\tiny C}}$ max	75	°C	Measured on $t_{\mbox{\tiny C}}$ point indicated of the product label.
	Max. case temp. in fault condition	110	°C	
ent	Storage temperature range	-40+85	°C	Cool down before operating
me	Relative humidity	5 95	%	Not condensing
Environment	Surge transient protection	1 2	kV	L/N LN/PE acc. IEC 61547 Clause 5.7
liv	Environmental rating	Indoor		
ц	IP rating	IP 20		
	Mains switching cycles	> 100'000		
	Expected lifetime	35'000	hrs	@tc = 75°C, max. 10% failure rate
	Expected lifetime	50'000	hrs	@tc = 65°C, max. 10% failure rate

Protection

Overload Automatic, reversible No load Automatic, reversible Short-circuit Automatic, reversible

Input overvoltage

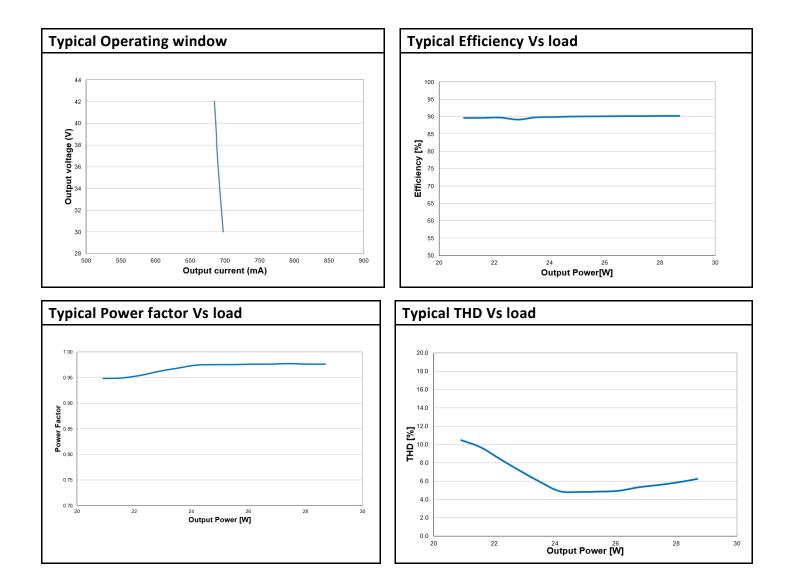
Maximum allowed input voltage 300V AC/ 2hrs Output overvoltage Yes, limitation of Output voltage <= 60V Output under voltage NA Wiring Diagram Terminal: Max. cable length : Geometry (I x b x h): Weight:

Push in terminals 2 m 119 x 37 x 27.5 mm 88g

wire preparation: push in s:0.75--1.5 f:0.75--1.5 f:0.75--1.5

For independent: 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



Standards

Safety: IEC 61347-1, IEC 61347-2-13 Performance: IEC 62384 Harmonic content: IEC 61000-3-2 Immunity: IEC 61547 IEC 61000-3-3

EAN10	Product name	Pcs/ box
4055462434302	EM 30/220-240/700 II	100

Ecodesign regulation information:

Intended for use with LED modules.

The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive2012/19/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.

ELEMENT EM II classified as "Non IC": The independent LED driver cannot be abutted against or covered by normally flammable materials or used in installations where building insulation or debris is, or may be, present in normal use.

No use for residential installations.

The minimum clearance distance from the top and sides of the independent LED driver to normally flammable building elements is A=B=C=10mm.

