inventronics

EM FIT 75/220-240/550 D CS L G2

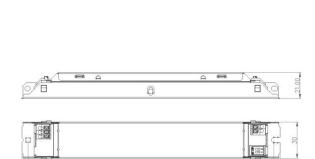
Constant Current LED Power Supply

350mA - 400mA - 500mA - 550mA

ELEMENT 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;
High quality light with very low ripple;
Very high efficiency up to 92%
Enable slim fixture design with flat 21mm height metal housing
Long lasting and high reliability



Applications

Linear and area lighting
Office – industrial - shop

Approbations & Certifications

CE, ENEC, CCC, RCM, TISI, BIS
In preparation, if not already printed on the label

Product Features

- Output current: 350/400/500/550mA
- Low THD < 20% @ full load
- Output power: 31.5-75.6W
- Input voltage: 220 240V_{AC}
- Ambient temp range Ta: -25 to +50°C

- Wide output voltage range
- Low ripple < 10%
- Very high efficiency up to 92%
- Fixed output (no dimming)

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Nominal voltage		Item	Value	Unit	Remarks
AC voltage range 198 - 264 V		Nominal voltage	220 – 240	V	
DC voltage range		Nominal frequency	50 / 60	Hz	
Maximum voltage 300		AC voltage range	198 – 264	V	
Maximum voltage 300 Vac 2 h maximum, unit might not operate in this abnormal condition Nominal current 349 mA 230V, Refer to Table 1 for details Total Harmonic Distortion (THD) < 20 % Full load, 220 − 240 V, 50 Hz / see graphs Efficiency 92 % Full load, 220 − 240 V, 50 Hz / see graphs Efficiency 92 % Full load, 220 − 240 V, 50 Hz / see graphs Power loss 6.5 W At 230V, Refor to Table 1 for details Protection class I Suitable for class I/I luminaire Inrush current 60 A twisten = 170 µs typical (measured at 50% lpeak) Max. units per circuit breaker 825:21 B16:13 B10:8 C25:35 C16:22 C10:14 Power loss I Suitable for class I/I luminaire Max. units per circuit breaker 90:188 V 400mA 400mA 90:188 V 400mA 90:216 350mA; output current, Refer to Table 1 for details Maximum voltage 250 Vdc Open Circuit Maximum voltage 250 Vdc Open Circuit Nominal current range 500/550 Current accuracy +/-7.5 % Current ripple 100Hz < 10 % Nominal power range 31.5-75.6 W Partial Load. Refer to Table 1 for details Maximum power 75.6 W Partial Load. Refer to Table 1 for details Maximum power 75.6 W Partial Load. Refer to Table 1 for details Maximum power 75.6 W Partial Load. Refer to Table 1 for details Maximum power 75.6 W Partial Load. Refer to Table 1 for details Maximum power 31.5-75.6 W Partial Load. Refer to Table 1 for details Maximum power 75.6 W Partial Load. Refer to Table 1 for details Maximum case temperature trange ts 2.25+50 °C Measured on ts point indicated of the product label		DC voltage range	NA	V	
Nominal current 349			300	Vac	2 h maximum, unit might not operate in this abnormal condition
Power factor 0.98		Nominal current	349	mA	
Power factor 0.98		Total Harmonic Distortion (THD)	< 20	%	Full load
Efficiency 92 % Full load, 220 – 240 V, 50 Hz / see graphs	INPUT		0.98		Full load, 220 – 240 V, 50 Hz / see graphs
Protection class		Efficiency		%	
Protection class			6.5	W	
Max. units per circuit breaker B25:21 B16:13 B10:8 C25:35 C16:22 C10:14 S50mA S00mA		Protection class	I		Suitable for class I/II luminaire
Max. units per circuit breaker B25:21 B16:13 B10:8 C25:35 C16:22 C10:14 S50mA S00mA		Inrush current	60	Α	t _{width} = 170 us typical (measured at 50% lpeak)
Max. units per circuit breaker B16:13 B10:8 C25:35 C16:22 C10:14					muli
Max. units per circuit breaker C25:35 C16:22 C10:14			-		
Nominal voltage range		May unite per circuit breeker	B10:8		
Nominal voltage range		Max. units per circuit breaker			
Nominal voltage range					
Nominal voltage range					
Nominal Voltage range					550 mA
Maximum voltage 250 Vdc Open Circuit	ООТРОТ	Nominal voltage range		V	
Maximum voltage 250 Vdc Open Circuit Nominal current range 350/400 500/550 Current accuracy +/- 7.5 % Current ripple 100Hz Nominal power range 31.5-75.6 W Partial Load. Refer to Table 1 for details Maximum power 75.6 W Galvanic isolation Output PSTLM Output SVM Ambient temperature range t _a -25+50 Maximum case temperature t _c 75 C Measured on t _c point indicated of the product label		rtoriiriai voltago rarigo		•	
Nominal current range Source Sourc					· · · · · · · · · · · · · · · · · · ·
Nominal current range 500/550 Current accuracy +/- 7.5 % Current ripple 100Hz < 10 % Nominal power range 31.5-75.6 W Partial Load. Refer to Table 1 for details Maximum power 75.6 W Galvanic isolation Non-isolated Output PSTLM <1 Output SVM ≤0.4 Ambient temperature range ta -25+50 °C Maximum case temperature tc 75 °C Measured on tc point indicated of the product label		Maximum voltage			Open Circuit
Nominal power range 31.5-75.6 W Partial Load. Refer to Table 1 for details Maximum power 75.6 W Galvanic isolation Non-isolated Output PSTLM ≤1 Output SVM ≤0.4 Ambient temperature range t _a -25+50 °C Maximum case temperature t _c 75 °C Measured on t _c point indicated of the product label		Nominal current range		mA	
Nominal power range 31.5-75.6 W Partial Load. Refer to Table 1 for details Maximum power 75.6 W Galvanic isolation Non-isolated Output PSTLM ≤1 Output SVM ≤0.4 Ambient temperature range t _a -25+50 °C Maximum case temperature t _c 75 °C Measured on t _c point indicated of the product label		Current accuracy		0/	
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Galvanic isolation Output PSTLM Output SVM △0.4 Ambient temperature range ta Aximum case temperature tc To compare the product label May compare the product label					Faitial Load. Nelei to Table 1 for details
Output PSTLM ≤1 Output SVM ≤0.4 Ambient temperature range t _a -25+50 °C Maximum case temperature t _c 75 °C Measured on t _c point indicated of the product label				VV	
Output SVM ≤0.4 Ambient temperature range t _a -25+50 Maximum case temperature t _c 75 °C Measured on t _c point indicated of the product label					
Ambient temperature range t _a -25+50 °C Maximum case temperature t _c 75 °C Measured on t _c point indicated of the product label			·		
Maximum case temperature t _c 75 °C Measured on t _c point indicated of the product label				°C	
May agge temp in fault condition 110 °C	ENVIRONMENT				Measured on to point indicated of the product label
Storage temperature range -40+85 °C					modeline on the point managed of the product labor
				°C	
Relative humidity 5 95 % Not condensing			5 95	%	Not condensing
Surge transient protection 1 2 kV L/N LN/PE acc to. EN 61547 Clause 5.7			1 2	kV	L/N LN/PE acc to. EN 61547 Clause 5.7
Environmental rating Indoor			Indoor		
P rating IP 20		IP rating	IP 20		
Mains switching cycles > 100'000	Ш	Mains switching cycles	> 100'000		
Expected lifetime 50'000 b $t_{cmax} = 75^{\circ}\text{C}$, 10% failure rate				h	
$t_{cmax} = 65^{\circ}C, 10\% \text{ failure rate}$		Exposied metime	100'000	11	$t_{cmax} = 65$ °C, 10% failure rate

Protections

Over temperature

Automatic, reversible

Overload

Automatic, reversible

Short-circuit

Automatic, reversible

No load, Yes

Input overvoltage

Maximum allowed input voltage 300V AC/ 2hr

Output overvoltage

Yes, Limitation of Output voltage ≤ 250Vrms

Output under voltage

NA

Wiring Diagram

Terminal: Push in terminals

Max. cable length: 2 m

Geometry (l x b x h): 210 x 30 x 21 mm

Weight: 140g

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. Indication that the lamp controlgear relies upon the luminaire enclosure for protection against accidental contact with live part

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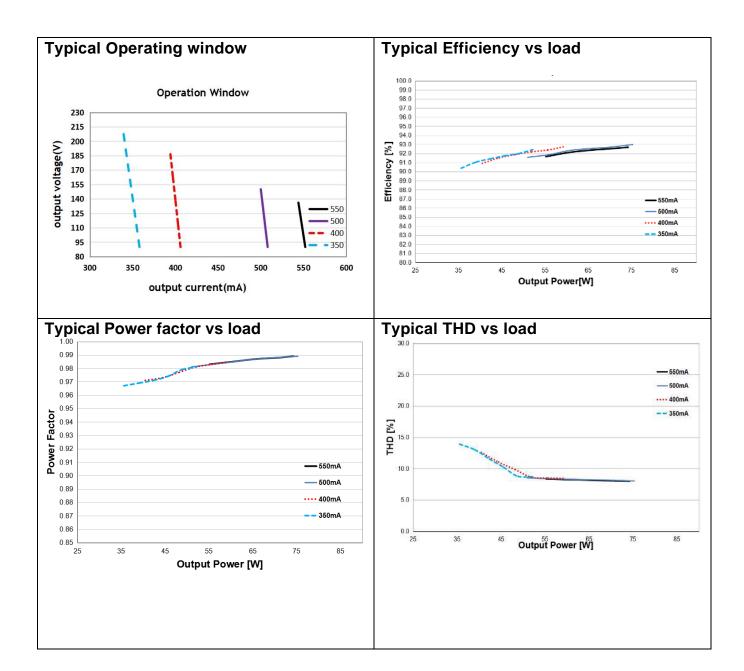


Table 1 - Rated output power and current sets					
lout [mA]	350	400	500	550	
U min [V]	90	90	90	90	
U max [V]	216	188	150	136	
P min [W]	31.5	36	45	49.5	
P max [W]	75.6	75.2	75	74.8	
Ta [°C]	50	50	50	50	
Tc [°C]	75	75	75	75	
Line Current, nominal@230V	341	343	355	349	
Max Power Loss@230V [W]	6.5	6.5	6.5	6.5	
Input Power @230V [W]	82.1	81.3	81.5	81.3	

PIN1	PIN2	Irated[mA]
OFF	OFF	350
OFF	ON	400
ON	OFF	500
ON	ON	550

Current selection by DIP-switch

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 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.

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 FIT 75/220-240/350 D CS L G2	6977078992572	6977078992589	20

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