

Product features

- Built-in non isolated adjustable power LED driver
- Supports 0...10V/PWM dimming
- Color temperature adjustable
- DIP control adjusts the current
- 12 V 0.1 A Auxiliary source
- Flicker free LED driver
- Output current 150...500 mA by dip switch adjust
- Max. output power 61.2 W
- For luminaires with protection class I
- 5 years warranty



Product specifications

163168 ID ELNCB 60/230/150-500 0-10V PWM DIP B

Output current	Input voltage	Output voltage	Efficiency @full load	Current accuracy	Power factor	Dimension LxWxH (mm)
150 mA	220...240 Vac 220...240 Vdc	80...220 Vdc	92%	± 15 mA	0.9	238 x 30 x 21
200 mA		80...220 Vdc	92.5%			
250 mA		80...220 Vdc	93.5%			
300 mA		80...204 Vdc	93%	± 5%	0.95	
350 mA		80...174 Vdc	93%			
400 mA		80...153 Vdc	92.5%			
450 mA		80...136 Vdc	92.5%			
500 mA		80...122 Vdc	92%			

Electrical specifications

Mains voltage supply

Rated input voltage range	220...240 Vac; performance range
Max. input voltage range	198...264 Vac; operational safety range
Rated frequency range	0/50/60 Hz
Performance / Operational safety	47...63 Hz
Max. input current	0.31 A @ 230 Vac & 0.31 A @ 230 Vdc

Battery operation

DC voltage range	220...240 Vdc; performance range
Max. DC voltage range	198...280 Vdc; operational safety range

Protection against voltage peaks

Withstand voltage	I/p-FG: 1.5 kVac, < 5 mA 60 sec
Mains surge immunity	L-N 1 kV, L-FG 2 kV, N-FG 2 kV per IEC 61000-4-5

Total harmonic distortion (THD)

At rated input voltage range @ full load	≤ 10%
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Output data

Output current tolerance	150...250 mA ± 15 mA at rated input voltage range
Output current tolerance	300...500 mA ± 5% at rated input voltage range
No load output voltage	≤ 300 Vdc
Ripple output current	5 % (ripple = peak/average total 100 Hz)
Turn-on Delay time	0.5 s at full load @ low rated input voltage
Output PstLM	≤ 1 at full load @ rated input voltage
Output SVM	≤ 0.4 at full load @ rated input voltage

Protection functions output side

Overvoltage protection	The output voltage is less than or equal to 300 V
Short circuit protection	Short circuit protection: Hiccup mode protection device will trigger when short circuit and will auto recover after the fault mode is removed.

Dimming operation and interface

Standby power consumption	≤ 0.5 W
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Connection terminals

Connection terminal type	45° push in terminal
Wire cross section	Input wire: 0.5...1.5 mm ² , output wire: 0.2...1.5 mm ²
Wire stripping length	8...9 mm

Degree of protection

Protection rating	IP20
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Operating data

Output current range	DIP control adjusts the current: 150...500 mA
Default current	150 mA
Output voltage range	80...220 Vdc
Noise level	< 20 dB, at full load @ 100 cm distance

Circuit breaker / Inrush current

MCB loading quantity	Inrush current I _{peak} : 27.1 A		Inrush current T _{width} : 205 µs		
	MCB type	B10	C10	B16	C16
	Units	18	30	30	48

Supplementary instructions

- It is recommended that customers install under voltage protection and surge protection devices in the power supply circuit of lamps to ensure the safety of electricity consumption.
- The power supply is used in combination with the terminal equipment as a part of the whole lamp. Because the EMC performance is affected by LED lamps and wiring, the terminal is set in case the manufacturer needs to reconfirm the EMC of the whole device.
- The outputs of drivers cannot be in paralleled.

Environmental specifications

Operating temperature	-20...+55°C
Storage temperature	-25...+85°C
Working humidity	10%...90%
Store humidity	5%...95%
Lifetime	at T _c 75°C: 50,000 hrs; @ 230 Vac
Maximum T _c temperature	80°C

Safety & EMC compliance

ENEC+CE	CCC	SAA
EN 61347-1:2015/A1		
EN 61347-2-13:2014/A1		
EN IEC 62384		
EN 61347-1:2015/A1		
EN 61347-2-13:2014/A1		
EN 62493:2015/A1		
EN IEC 55015:2019/A11		
EN IEC 61547		
EN IEC 61000-3-2:2019/A1		
EN 61000-3-3:2013/A2		

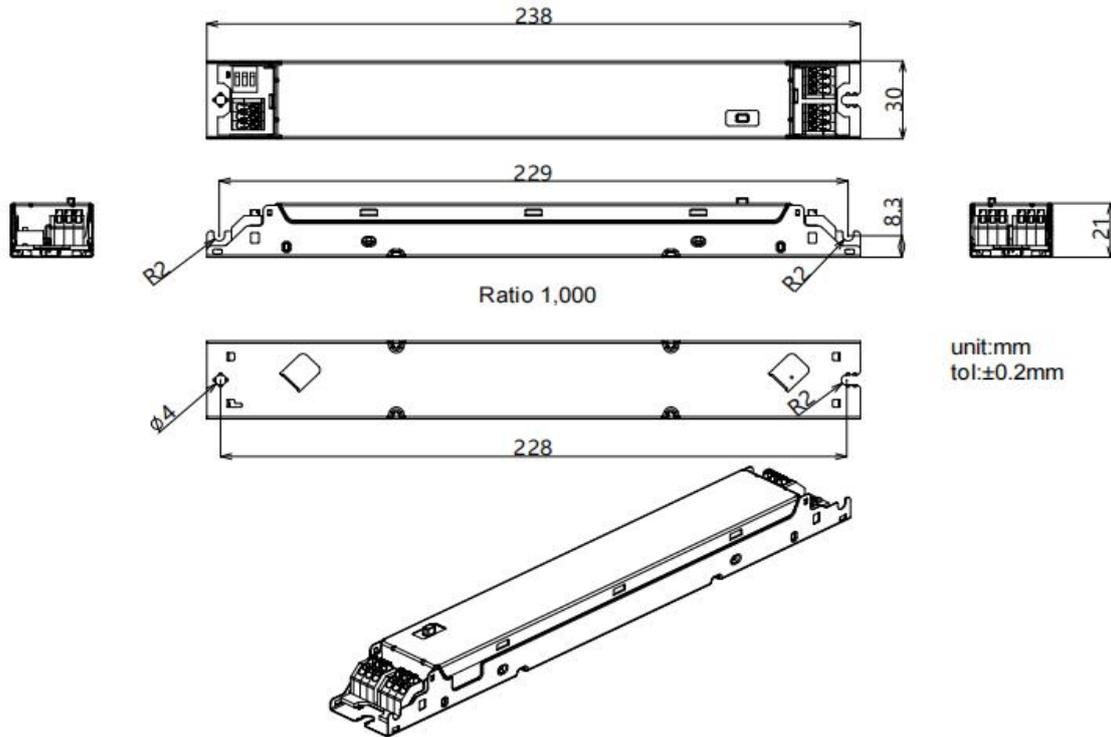
Dimensions

Housing dimensions

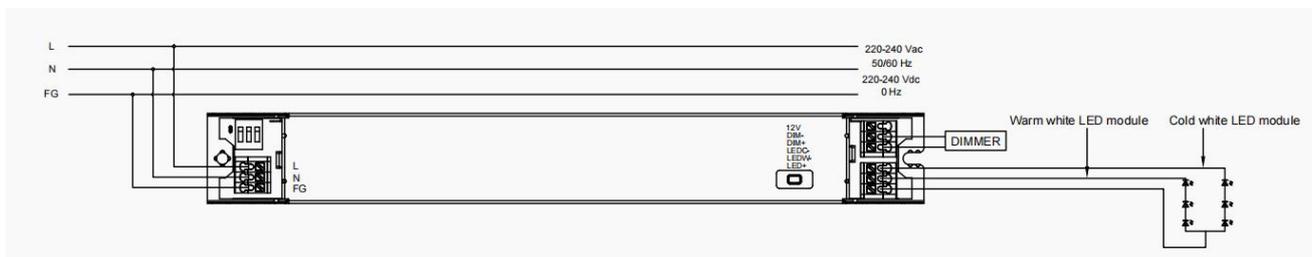
Length (L)	238 mm
Width (W)	30 mm
Height (H)	21 mm
Weight	0.14 kg

Packaging details

Packing units	60 pcs
Carton size	317 x 248 x 175 mm
Weight	9.1 kg

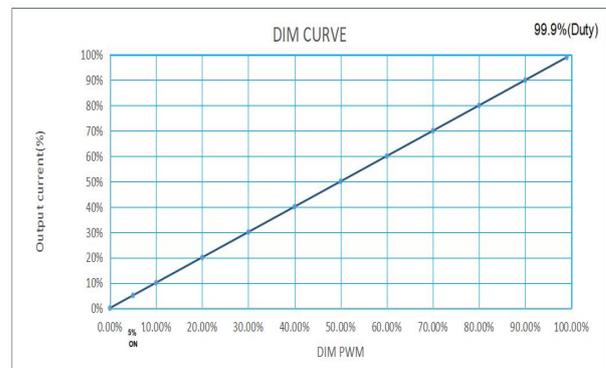
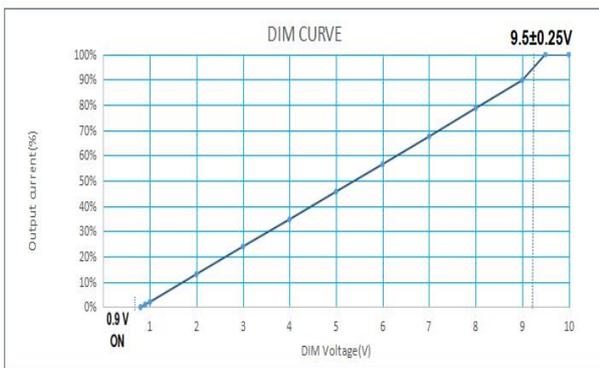
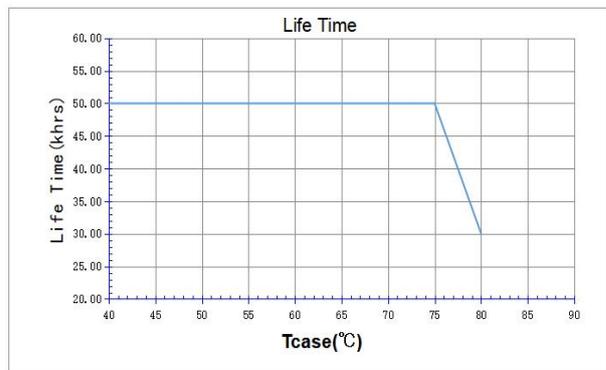
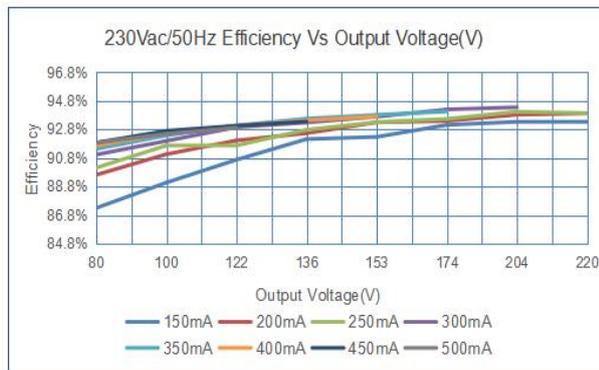
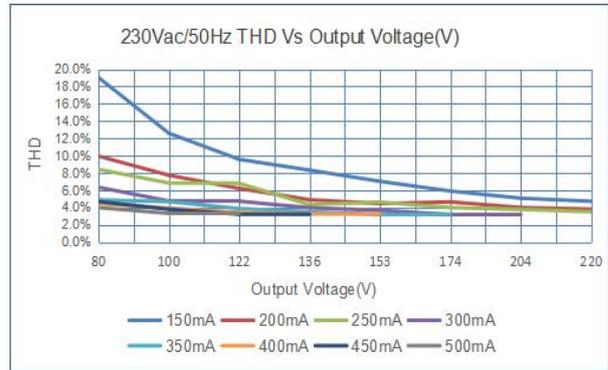
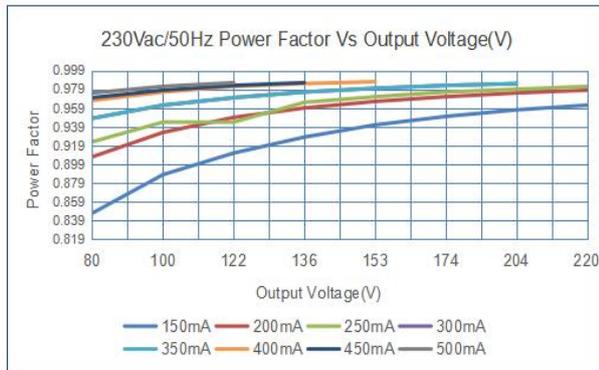


Wiring diagram



- All connections must be as short as possible to ensure good EMI performance.
- The luminaire wire should keep a certain distance from the LED power supply and other wires (5 - 10 cm is preferred).
- Incorrect wiring can damage the LED.
- The wire must be well protected against short circuit.

Technical information



ADJUSTABLE OUTPUT CURRENT WITH DIP-SWITCH					
Vout	Pout	Iout	1	2	3
80...220 Vdc	33 W	150 mA	OFF	OFF	OFF
	44 W	200 mA	ON	OFF	OFF
	55 W	250 mA	OFF	ON	OFF
80...204 Vdc	61.2 W	300 mA	ON	ON	OFF
80...174 Vdc	61.2 W	350 mA	OFF	OFF	ON
80...153 Vdc	61.2 W	400 mA	ON	OFF	ON
52...136 Vdc	61.2 W	450 mA	OFF	ON	ON
52...122 Vdc	61.2 W	500 mA	ON	ON	ON