

Product features

- Built-in isolated adjustable power LED driver
- Current adjustment via external DIP
- Flicker free LED driver
- Output current: 900 ... 1,650 mA
- Max. output power 62.7 W
- Nominal life-time up to 50,000 h
- For luminaires with protection class I
- DC emergency
- 5-year warranty



Product specifications

680062 RD ELSCB 60/230/900-1650 EDIP H21

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor @ full load	Dimension L x W x H (mm)
900 ... 1,650 mA	220 ... 240 VAC 220 ... 240 VDC	15 ... 54 VDC	90.5 % (@ 54 V 1,150 mA)	± 5 %	> 0.95	278.0 x 30.0 x 21.0

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
Max. input current	0.32 A @ 230 VAC, 0.32 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-O/p: 3 kVAC, < 5 mA 60 s, I/p-FG: 1.5 kVAC, < 5 mA 60 s, O/p-FG: 1.5 kVAC, < 5 mA 60 s
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	± 5 % at rated input voltage range
No load output voltage	≤ 60 VDC
Ripple output current	5 % (ripple = peak/average total 100 Hz)
Output PstLM	≤ 1 at full load @ rated input voltage

Output SVM	≤ 0.4 at full load @ rated input voltage
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Protection functions output side

Overvoltage protection	The output voltage is less than or equal to 60 VDC
Short circuit protection	Hiccup mode. Protection device will trigger when short circuit and will auto recover after the fault mode is removed.

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	Output current 900 ... 1,650 mA by Connect external DIP switch adjust
Default current	900 mA
Output voltage range	15 ... 54 VDC
Noise level	< 20 dB(A) at full load @ 100 cm distance

Circuit breaker / Inrush current

MCB loading quantity	Inrush current I _{peak} : 34.8 A			Inrush current T _{width} : 176 µs	
	MCB type	B10	C10	B16	C16
	Units	17	26	27	42

Environmental specifications

Operating temperature	-20 ... +60 °C
Storage temperature	-20 ... +85 °C
Working humidity	10 ... 90 %
Storage humidity	5 ... 95 %
Lifetime	at Tc 80 °C: 50,000 h; at 90 °C 30,000 h; @ 230 VAC (0.2 % / 1,000 h failure rate)
Maximum Tc temperature	90 °C

Safety & EMC compliance

ENEC+CE	CCC	SAA
EN 61347-1:2015/A1:2021	/	/
EN 61347-2-13:2014/A1:2017	/	/
EN IEC 62384:2020	/	/
EN IEC 55015:2019/A11:2020	/	/
EN IEC 61000-3-2:2019/A2:2024	/	/
EN 61000-3-3:2013/A2:2021	/	/
EN IEC 61547:2023		

Dimensions

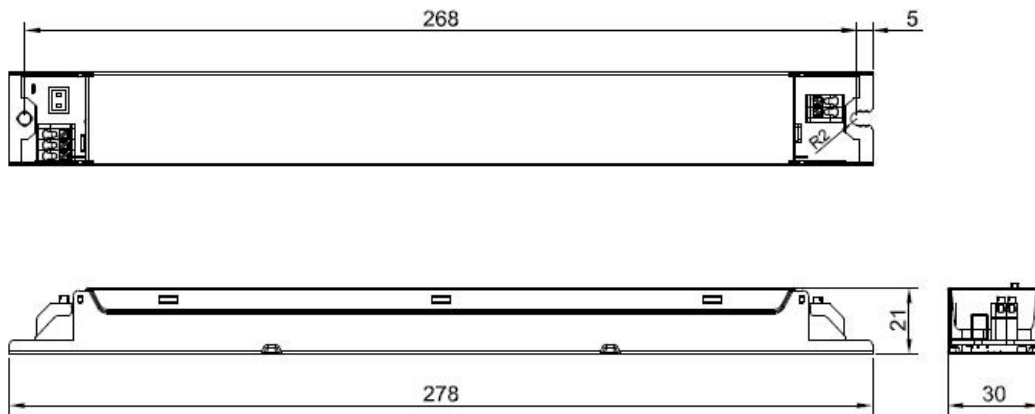
Housing dimensions

Length (L)	278.0 mm
Width (W)	30.0 mm
Height (H)	21.0 mm

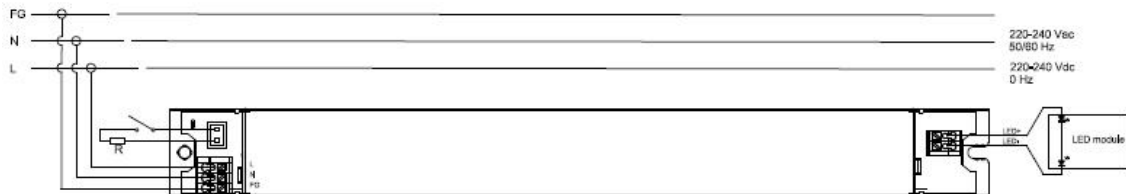
For all dimensions: values in mm; tolerances: ± 0.5 mm

Packaging details

Packing units	60 pcs
Carton size	375 x 325 x 185 mm
Carton weight	12 kg
Product weight	0.191 kg



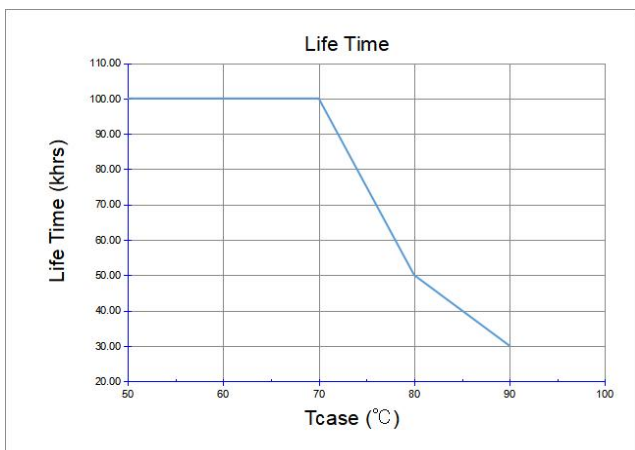
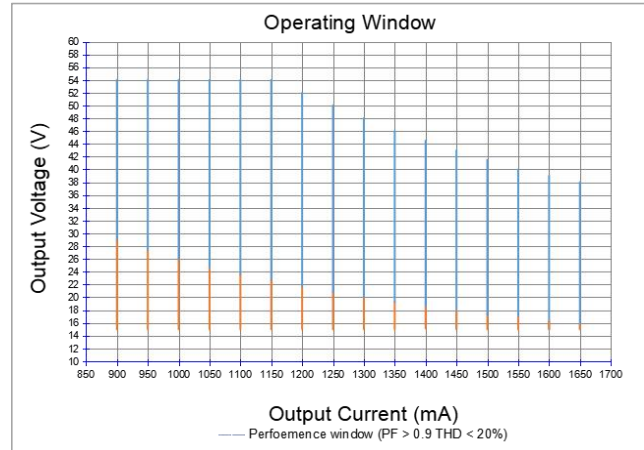
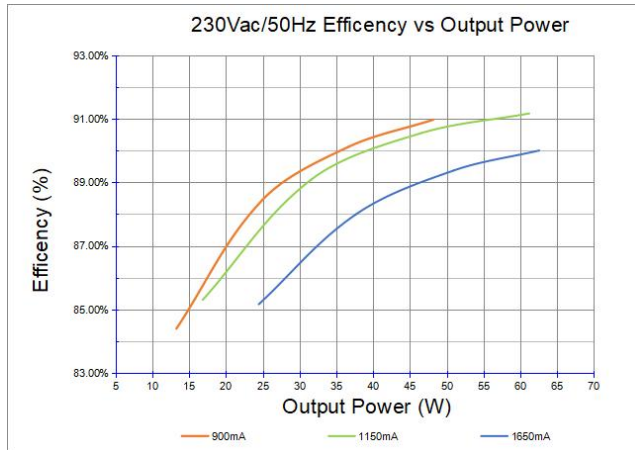
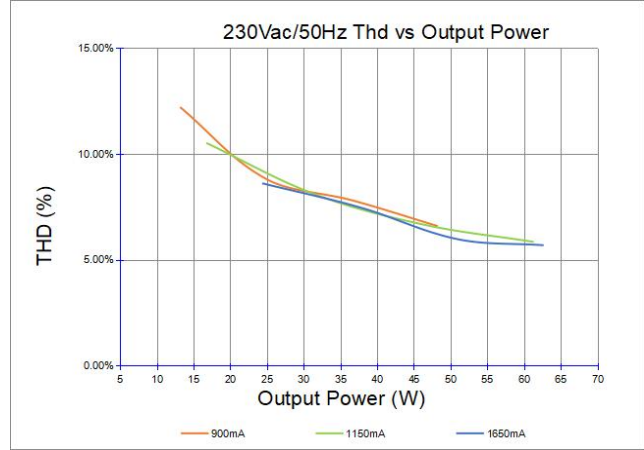
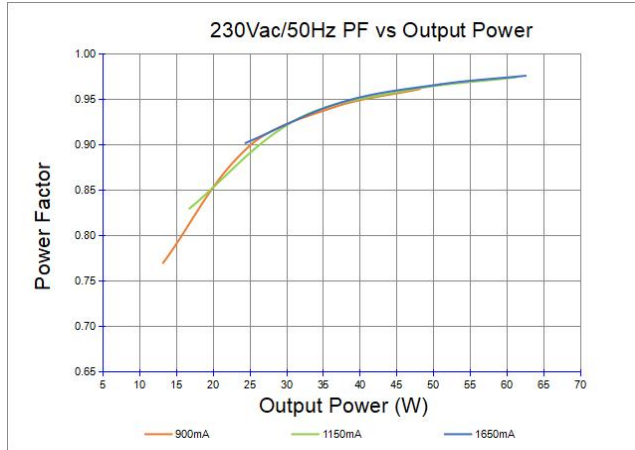
Wiring diagram



Supplementary instructions

- The luminaire manufacturer is responsible for measuring and verifying the EMI compliance of the complete luminaire, as the level of radio interference will vary depending on the luminaire construction. Especially primary and secondary cable lengths and their routing may have a significant effect on radio interference. 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).
- No secondary switches are allowed.
- Incorrect wiring can damage the LED.
- The wire must be well protected against short circuits.
- The recommended NFC communication distance: 5 ... 20 mm.
- The length of the wire connecting the external DIP switch is recommended to be within 30 cm.

Technical information



at Tc 80 °C (0.2 % / 1,000 h failure rate)

Connect external DIP switch (example)

Output current	External resistor (kΩ)
900 mA	NC (Default)
950 mA	130
1,000 mA	56
1,050 mA	36
1,100 mA	24
1,150 mA	18
1,200 mA	13
1,250 mA	10
1,300 mA	7.5
1,350 mA	5.6
1,400 mA	4.3
1,450 mA	3.3
1,500 mA	2.2
1,550 mA	1.3
1,600 mA	0.62
1,650 mA	0

Current calculation formula (for reference)

$$I_{out} \approx 1650 - 0.083 * (R // 9000) \text{ mA}$$