

ID LCCB 100/230/250-700 NFC FV1

Built-in non isolated adjustable power LED driver

NFC control adjusts the current

Flicker free LED driver

Output current 250-700mA

Max. output power 100W

For luminaries of protection class I

5-year warranty



ELECTRICAL SPECIFICATIONS

Rated input voltage range:	220 ... 240 Vac			
Max. input voltage range:	198 ... 264 Vac			
DC voltage range :	220 ... 240 Vdc			
Max. DC voltage range :	176... 276Vdc			
Rated frequency range:	0 / 50 / 60 Hz			
Max. input current:	0.52 A @ 230 Vac			
Total harmonic distortion (max.):	≤ 20 % at rated input voltage range @ full load			
Inrush current:	≤ 50 A at rated input voltage range @ full load			
MCB Loading Quantity:	Inrush current Ipeak: 25.4A		Inrush current Twidth: 148us	
	MCB Type:	B10	C10	B16
	Qty (PCS)	16	16	26
Output current tolerance:	± 5 % at rated input voltage range @ 300-700mA			
	±15mA at rated input voltage range @ 250-299mA			
Turn on delay time:	≤ 0.5 s at full load @ rated input voltage			
No load output voltage:	≤ 250 Vdc			
Ripple output current:	≤ 5%			
Output PST:	≤1 at full load @ rated input voltage			
Output SVM:	≤0.4 at full load @ rated input voltage			
Set output current:	NFC control adjusts the current; 250-700mA			
Default current:	700mA			
Withstand voltage:	I/P-FG: 1.5 kVac, < 5 mA 60 sec			
Mains surge immunity:	L-N 1kV,L-FG 2kV,N-FG 2kV			
Connection terminal type:	0°/45° push in terminal			
Wire cross section:	Input and output wire: 0.5 - 1.5 mm ²			
Wire stripping length:	7-8mm			
Protection rating:	IP 20			

Protection:	Over voltage protection: The output voltage is less than or equal to 250V
	Over power protection: The output power is less than or equal to 120W
	Short circuit protection: Hiccup mode. Protection device will trigger when short circuit and will auto recover after the fault mode is removed.

ELECTRICAL SPECIFICATIONS

Supplementary instruction:	The luminaire manufacturer is responsible for measuring and verifying 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.
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ENVIRONMENTAL SPECIFICATIONS

Operating temperature:	-25 to 55°C
Storage temperature:	-40 to 80°C
Working humidity:	10 % to 90 %
Store humidity:	5 % to 90 %
Driver lifetime:	at $t_{c \leq 75^{\circ}\text{C}}$: 50,000 hrs; at $t_{c \leq 65^{\circ}\text{C}}$: 100,000 hrs; @230Vac
Maximum Tc temperature:	85°C

PRODUCT SPECIFICATIONS

Model Number (Full Model)	Output Current	Input Voltage	Output Voltage	Efficiency @full load	Current Accuracy	Power Factor	Dimension L*W*H (mm)
ID LCCB 100/230/250-700 NFC FV1	250-700mA	220-240Vac 220-240Vdc	50-220Vdc	93%	±5%	≥0.9	L278*W30*H21

SAFETY AND EMC COMPLIANCE

ENEC+ CE+EL +RED	EN 61347-2-13:2014/A1:2017	CCC	GB17625.1-2012	SAA	AS/NZS IEC 61347.2.13.2013
	EN 61347-1:2015		GB/T17743-2017		AS/NZS 61347.1:2016
	EN 62384:2006/A1:2009		GB/19510.1-2009		
	EN 55015:2019/A11:2020		GB19510.14-2009		
	EN61000-3-2:2019				
	EN61000-3-3:2013				
	EN61547:2009				
	EN 300 330 V2.1.1:2017				

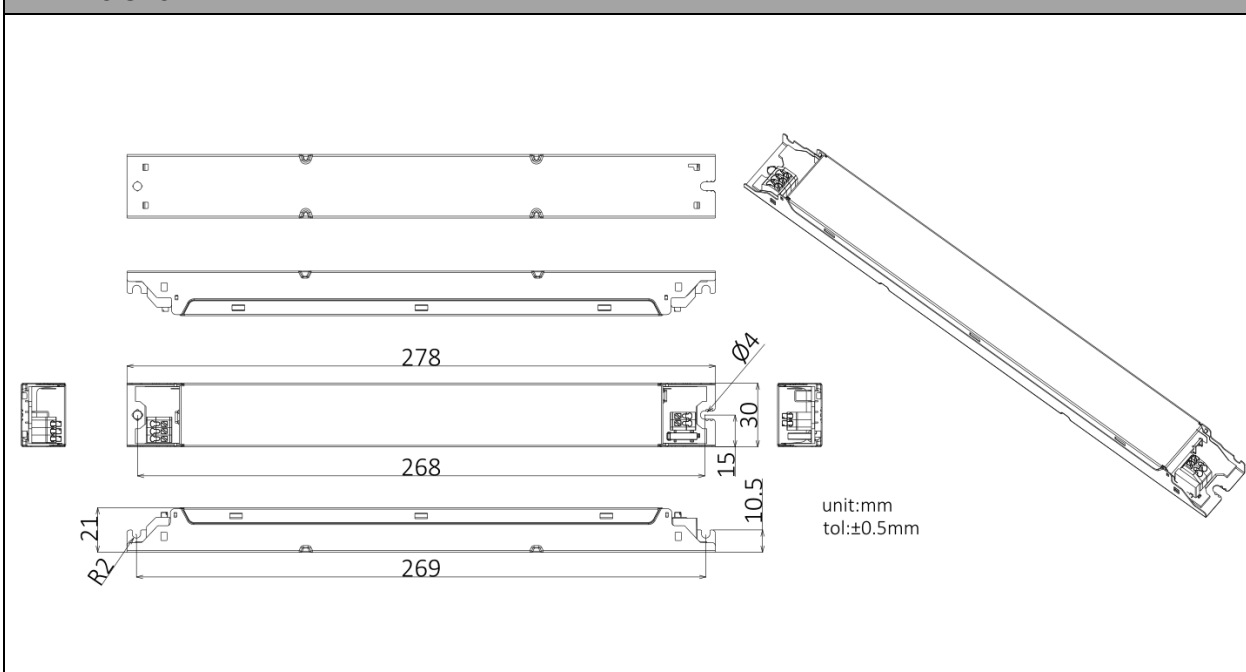
PHYSICAL DIMENSIONS

Length (L):	278 mm
Width (W):	30 mm
Height (H):	21 mm

PACKAGING

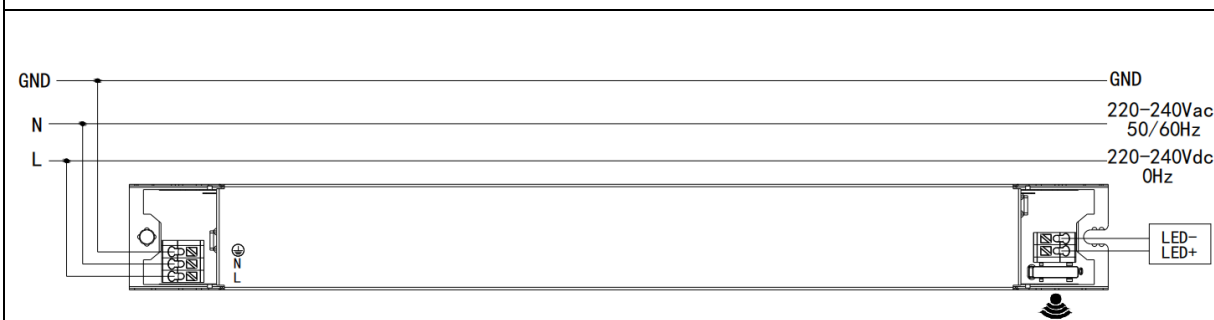
0.196 kg / unit	56 pcs / carton
Carton size:	375 x 325 x 185 mm
Carton weight:	11.5 kg

DIMENSIONS

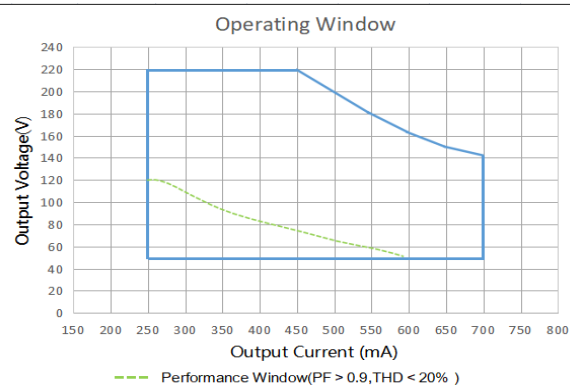
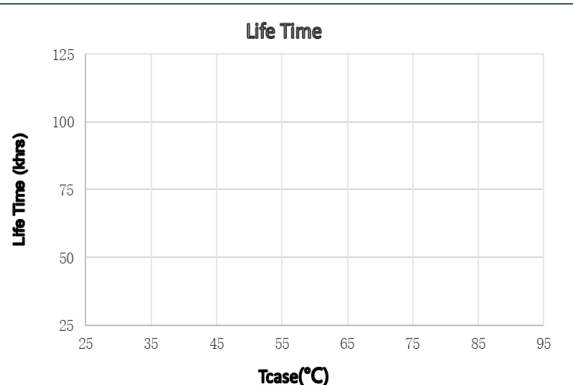
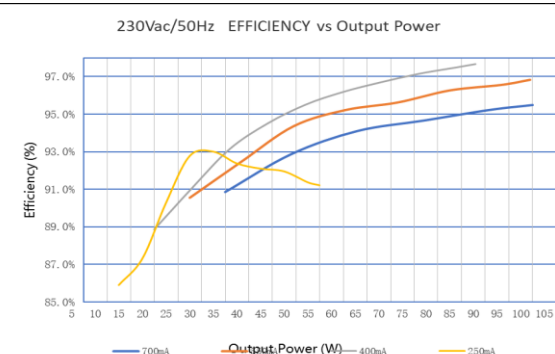
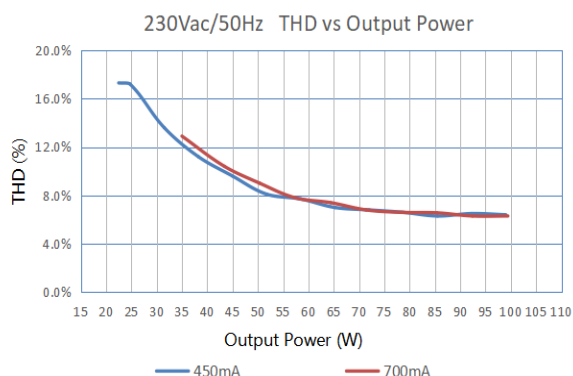
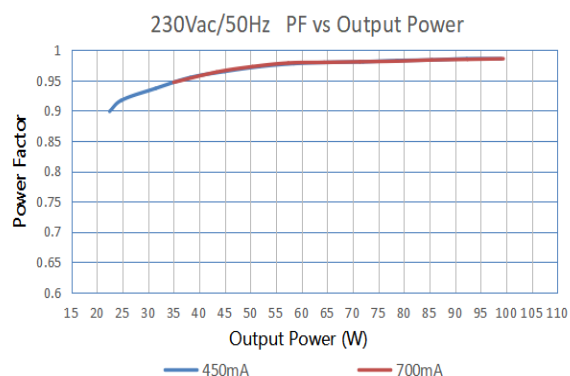


WIRING DIAGRAM

1. All connections must be as short as possible to ensure good EMI performance.
2. The lamp wire should keep a certain distance from the LED power supply and other wires (5-10 cm is preferred).
3. No secondary switches are allowed
4. Incorrect wiring can damage LED.
5. The wire must be well protected against short circuit.



TECHNICAL INFORMATION



It's important to set output current (AOC value) according to LEDs voltage, make sure the power is within 100W +5%

Example of AOC settings

V_LED (Vdc)	AOC_max	P_out (W)
220	454mA	100
200	500mA	100
180	555mA	100
142.9	700mA	100