



## PRODUCT FEATURES

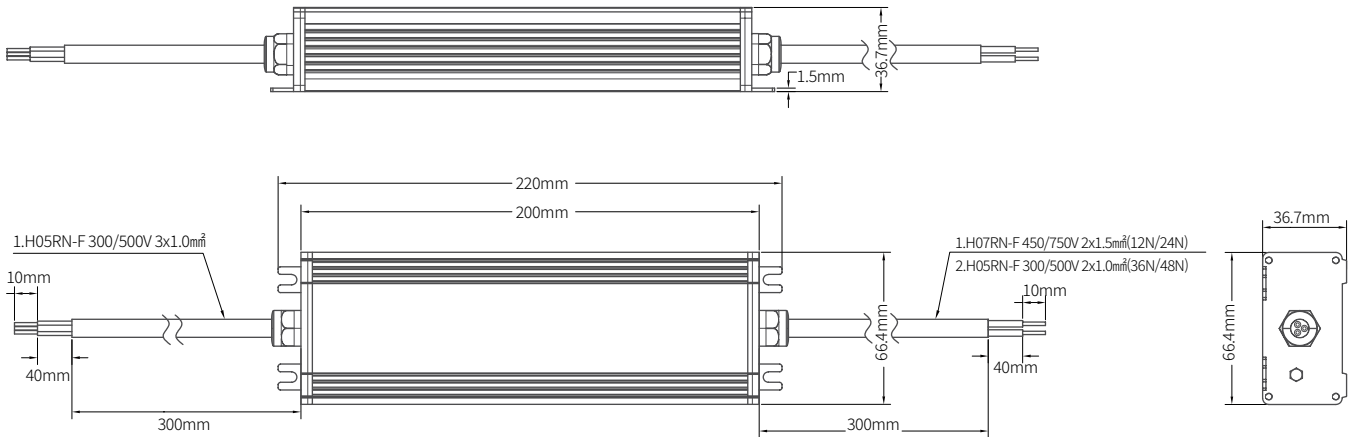
- High Efficiency (Up to 93%)
- Constant Voltage Output
- Input Surge Protection: DM 6kV, CM 10kV
- All-Around Protection: OVP, OCP, SCP, OTP
- IP67
- SELV Output

## MODELS



Model Number	Output Voltage	Rated Output Current	Input Voltage Range	Input Current	Max. Output Power	Typical Efficiency
FLC200-48V	48 VDC	0-2.08 A	220-240 V	≤1.2 A	200 W	93.0%

## DIMENSION



## SPECIFICATION

### 1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Voltage
	IP Grade	IP67
	Insulation Class	Class I
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	176-264VAC
	Frequency	50/60Hz
	Input Current	≤1.2A (230VAC,full load)
	Input Power	≤ 240W (230VAC,full load)
	Power Factor	≥0.95 (230VAC,full load)
	No-load Power Consumption	≤1.0W @230VAC
Output	Voltage Accuracy	±5%
	Max. Output Power	200W
	Started Delay Time	≤0.5S (230VAC, full load)
	Voltage Ripple	±5% (U <sub>max</sub> -U <sub>min</sub> ) / (U <sub>max</sub> +U <sub>min</sub> )
	PstLM	≤1
	SVM	≤0.4
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	No-load Protection	Auto Recovery
	Insulation voltage	I/P to O/P , 3.75KVac/1min
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	I/P to O/P < 250μA
Environment	Ta/Operation Temperature	-40...+50°C
	Ts/Storage Temperature	-40...+80°C
	Tc/Enclosure Temperature	MAX 90°C
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Direct Lead
	Installation	Independent
	PRI Wire preparation	
	SEC Wire preparation	
	Dimension	220*66.4*36.7(L*W*H)
Standards	Certification	CE
	Safety Standards	EN61347-1:2015,EN61347-2-13:2014/A1:2017
	EMC Standards	EN55015:2013/A1:2015,EN61000-3-2:2014,EN61000-3-3:2013,EN61547:2009
	Performance	EN62384
	Surge	L-N:6KV (2Ω) , L/N-PE:10KV (12Ω)
Others	RoHS	complied to 2011/65/EU
	Life Time	50000h @Tc75°C
	Warranty	5years , F.R. < 1000ppm
	Noise	≤ 24dB @Background noise ≤18dB , Interval≥15cm

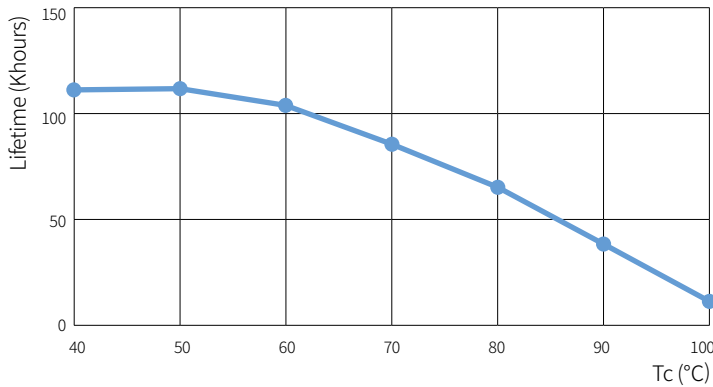
1. All Parameters, if not specified, are measured at 230VAC/50Hz and 25°C ambient temperature.

2. LED Driver is a component of the luminaires ,Luminaires and wire layout will affect the EMC, please check the EMC with end products again.

## 2. Connected quantities of different current Breaker

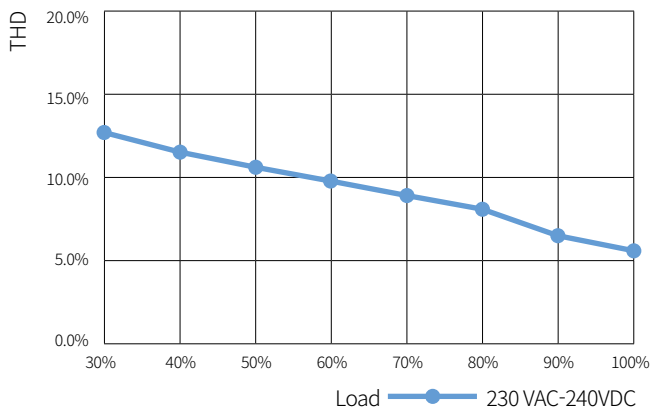
TYRE	Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	CURRENT(A)	10	13	16	20	25			
	Installation wire diameter	1.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	4 mm <sup>2</sup>	4 mm <sup>2</sup>			
FLC200-48V-P		19	25	31	38	48	230 VAC	80	48.8us

### Lifetime vs. Case Temperature

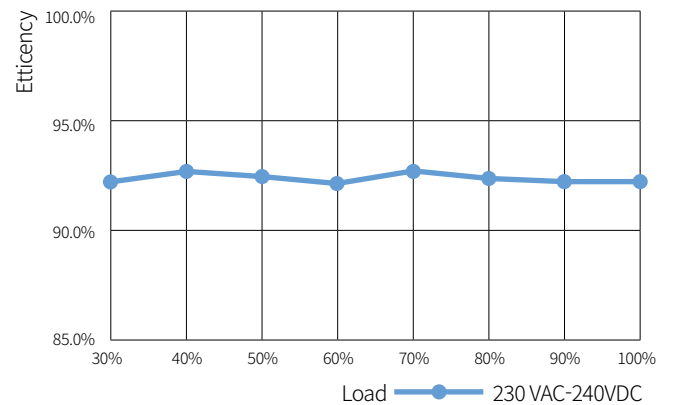


### Power Factor, THD and Efficiency vs. Load

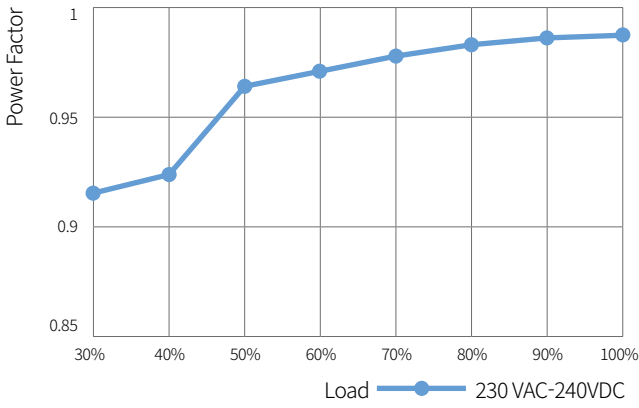
Typical THD V.S load



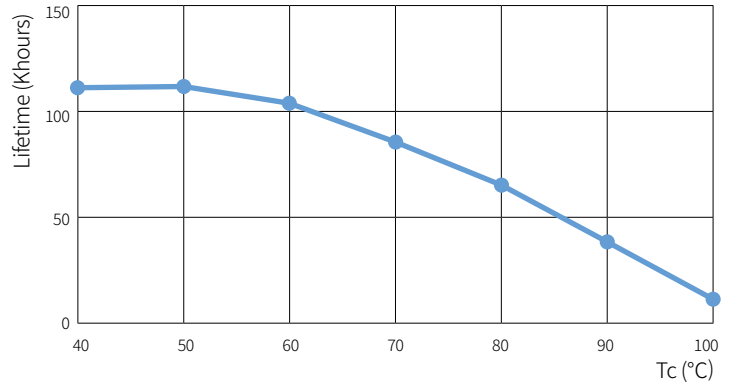
Typical Efficiency V.S load



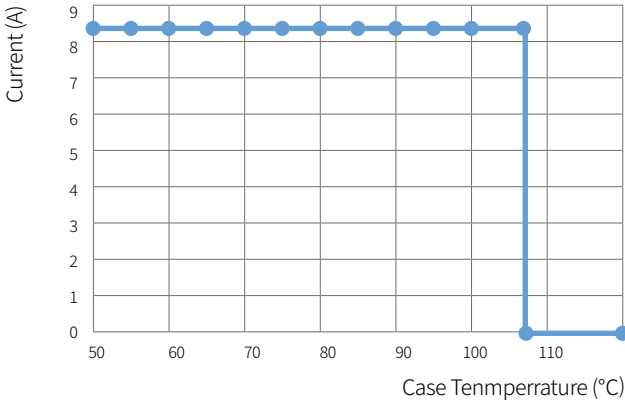
Typical Power factor V.S load



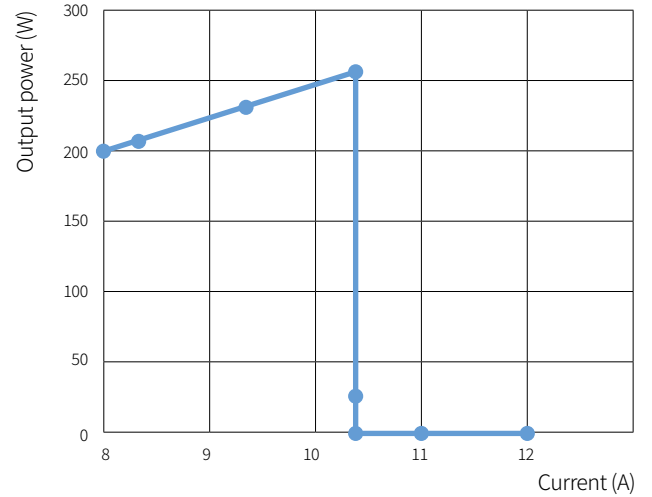
Typical Lifetime V.S Tc



OTP curve(Tc V.S output current)



Typical output power V.S Tc at OCP condition



## WIRING INSTRUCTIONS

- All connections must be kept as short as possible to ensure good EMI behaviour
- Mains leads should be kept apart from LED Driver and other leads (ideally 5 – 10 cm distance)
- Advice the maximum length of output wires is 3 m
- Incorrect wiring can damage LED modules.
- The wiring must be protected against short circuits to earth (sharp edged metals parts, metal cable clips, louver, etc.)