Citi-el
LED up your business

📞 +7 (499) 647-80-74
✉ zakaz@citi-el.ru
🌐 www.citi-el.ru

EAGLERISE

FMS-80-1600 LD

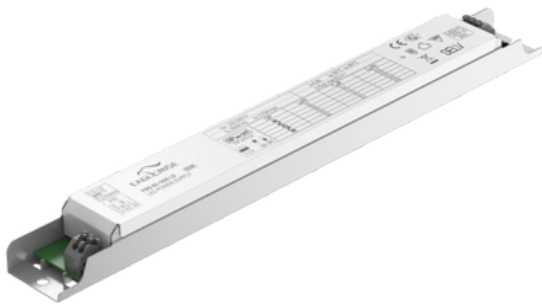# 80W Constant Current – DIP-Switch

Features

Class I，SELV，built-in
Input Voltage 220-240VAC
Protections: SCP/OLP/OVP
Power Factor：>0.95
Efficiency：≥90%
5 years warranty

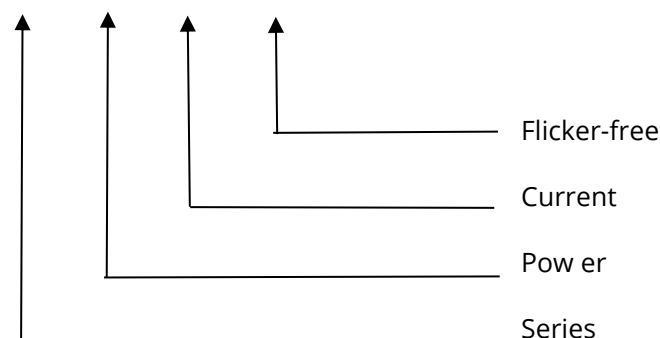### Applications

Linear light

CE ECB SELV CCC

Description

FMS-80-1600 LD is an 80W constant current LED driver that operates from 198-264Vac input with 1200 to 1600mA output current. The output current is selectable by DIP Switch. With it's dimensions from 280 x 30 x 21mm it is easy to integrate in LED linear light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

Model code

FMS-80-1600 LD

Flicker-free

Current

Pow er

Series

Specification

|						
Output	Constant Current	1200mA	1300mA	1400mA	1500mA	16 00mA
	Voltage Range	36-52VDC				36-50VDC
	Unload voltage	Max. 63VDC				
	CurrentAccuracy	±5%				
	Output HF current ripple(≥1KHz)	±3%				
	Output LF current ripple(≤120Hz)	±3%				
	SVM	≤0.4@FullLoad				
	Pst	≤1@FullLoad				
	Efficiency(Typ.)	≥90%@FullLoad				
Input	Rated input voltage	220-240VAC				
	Range of input voltage	198-264VAC				
	Frequency(Hz)	50/60Hz				
	Power Factor	＞0.95@FullLoad				
	Input Current	max 0.53A				
	Start-uptime	＜0.5S				
	No Load Power	≤0.5W				
	THD(Typ.)	＜15%.@FullLoad				
Protection	Over Load Protection	103-120%				
		YES/Auto Resume				
	Over Voltage Protection	＞6 0VDC				
		YES/Auto Resume				
	Short circuit Protection	YES/AutoResume				
Environment	Operating Temperature	-20℃~+50℃				
	Humidity	20%-90%RH				
	Tc	80℃				
	Storage Temperature	-25℃~+60℃				
	Lifetime	＞50000h@Tc=65℃,230VAC				
Surface	Dimension	280X30X21(LXWXH)mm				
s tandards	EN61347-1; EN61347-2-13;EN62384；EN55015;EN61000-3-2 ;EN61000-3-3；EN61547;					
Others	ErP	EU2019/2020				
	RoHS	RoHS(2011/65/EU)　　　　(EU)2015/863				
Note	1.All parameters NOT specially mentioned are measured at 230VAC input , full load and 25℃ of ambient temperature. 2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor.					

Parameter

| Number	Output				Switch position		
	Current (mA) I1+I2	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2	3
1	1200mA	36-52VDC	63	62.4W	--	--	--
2	1300mA			67.6W	--	--	ON
3	14 00mA			72.8W	--	ON	--
4	1500mA			78W	--	ON	ON
*5	* 1600mA	36-50VDC		80W	ON	ON	ON

* Factory default

Wiring diagram
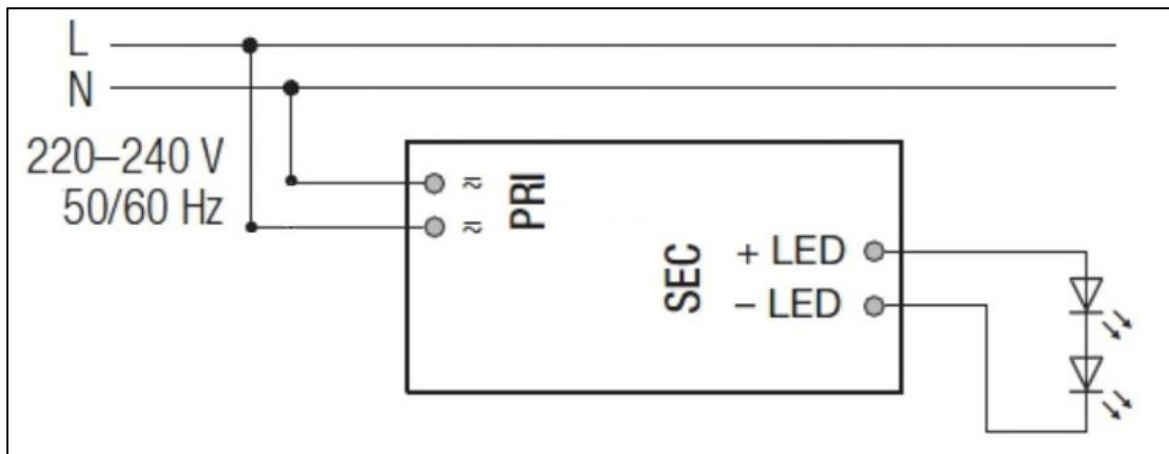
2D diagram
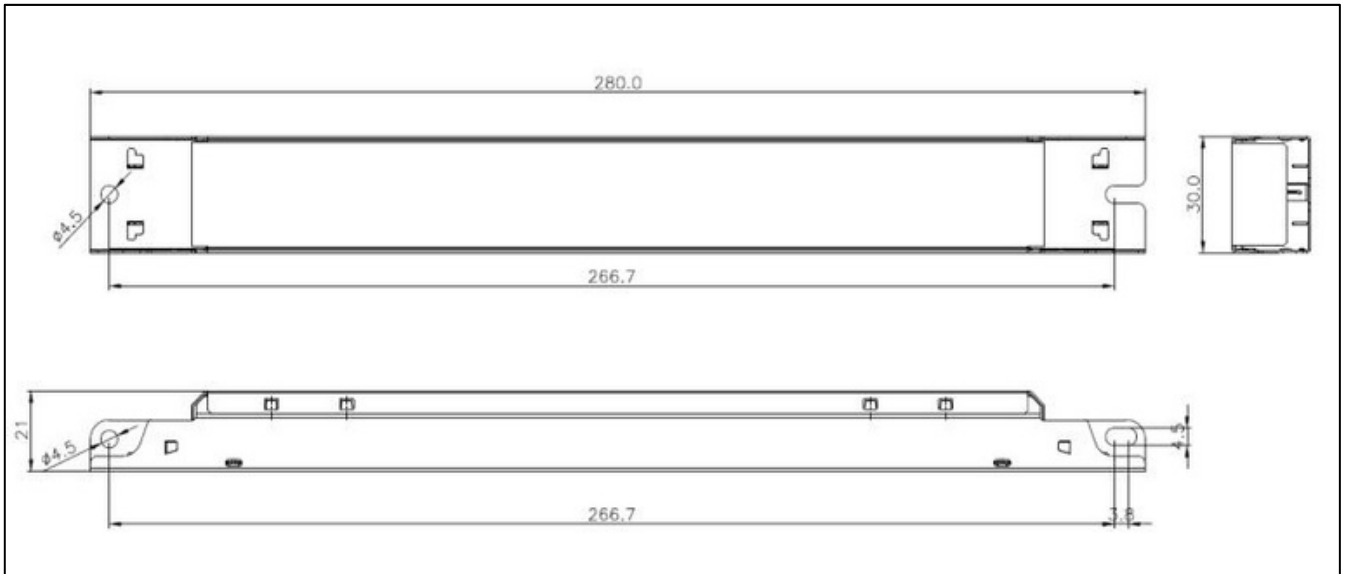
Wiring & Connections

	Specification item	Value （Unit）
Input	Input wire cross-section	0.5...1.5 mm2
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm2
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

Curve for FMS-80-1600 LD，Io=1600mA

Lifetime vs. Temperature Curve
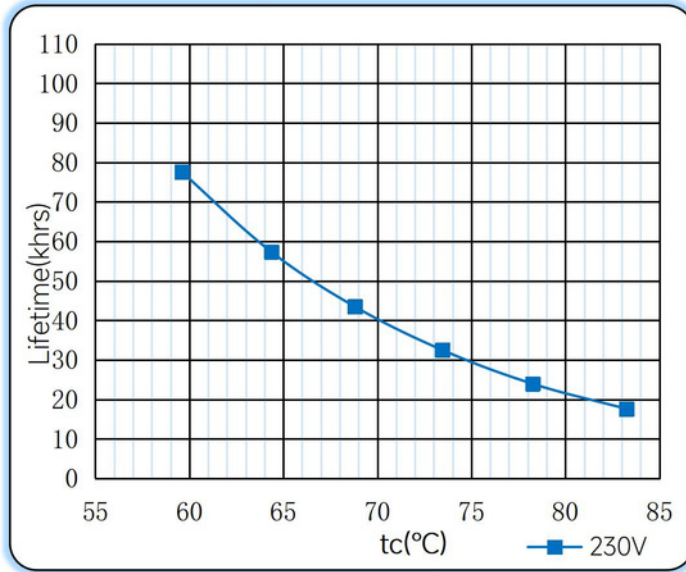
Efficiency vs. Load
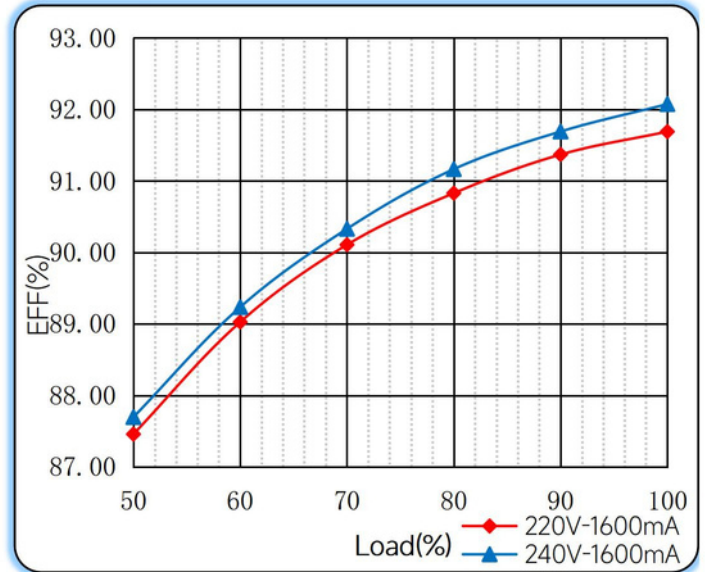
Power Factor Characteristics
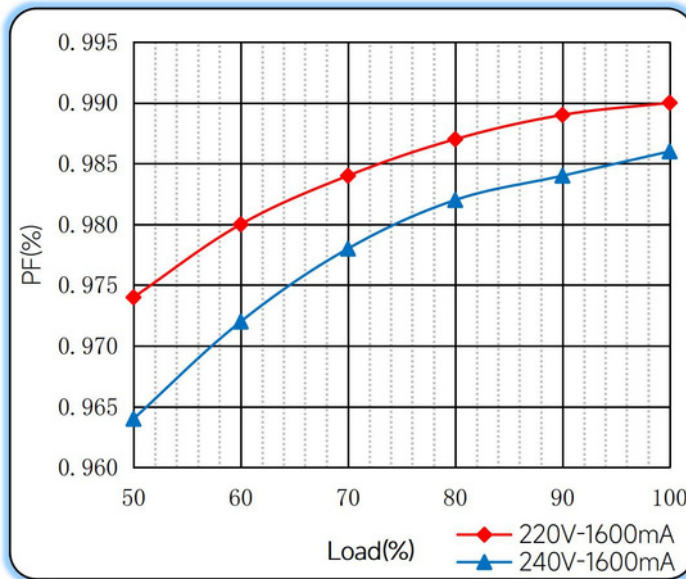
THD vs. Load

Operating window
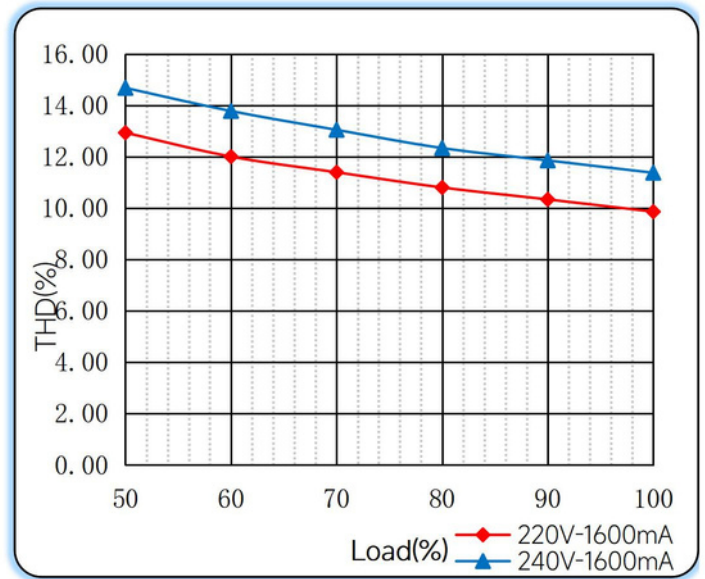
Operating window 100%
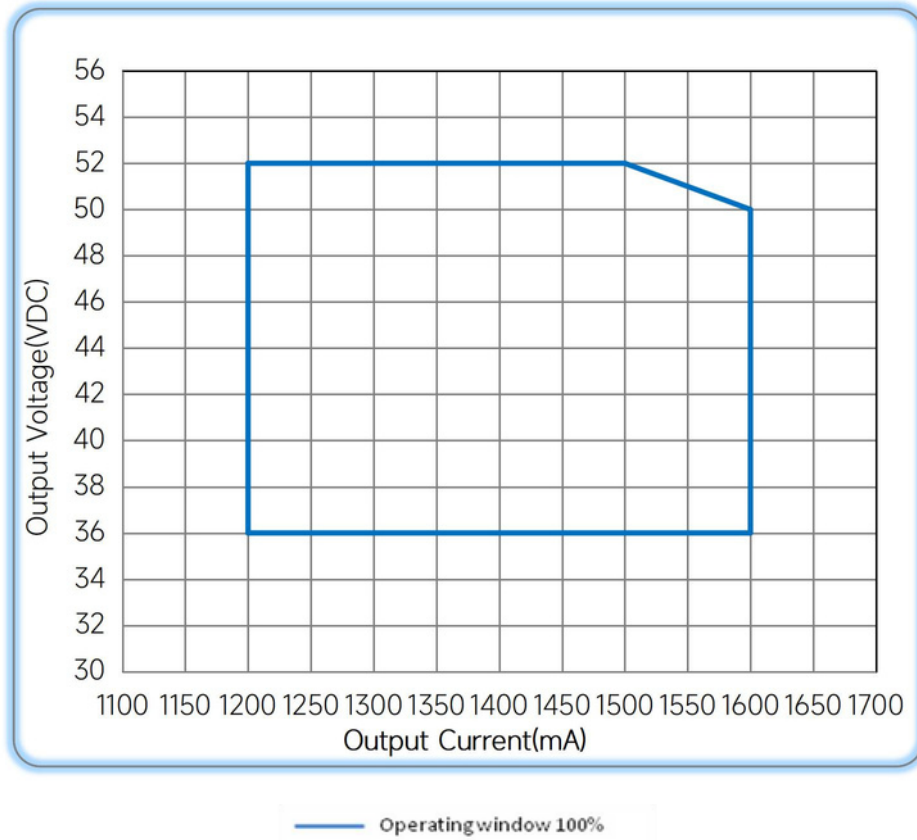
Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/05/15

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