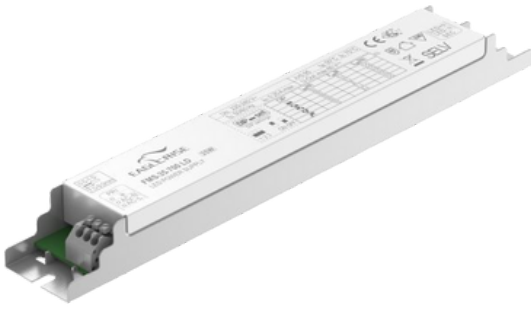


35W Constant Current – DIP-Switch



Features

- Class I, SELV, built-in
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor >0.95
- Efficiency ≥88%
- 5 years warranty

Applications

- Linear light

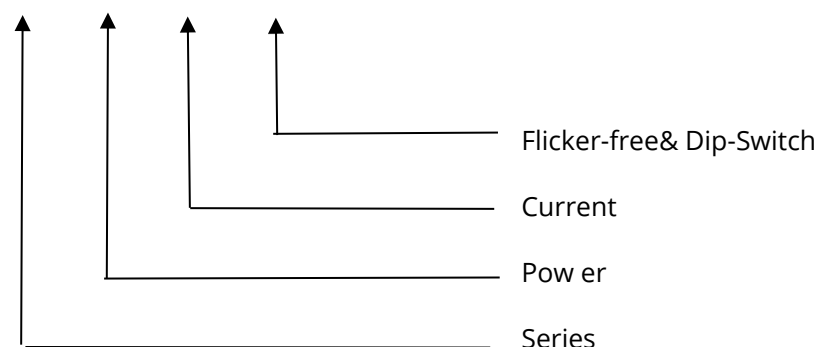


Description

FMS-35-700 LD is a 35W constant current LED driver that operates from 176-264Vac input with 300 to 700mA output current. The output current is selectable by DIP Switch. With it's dimensions from 220 x 30 x 21mm it is easy to integrate in linear light products. To ensure trouble-free operation, protection is provided against output short circuit, over Load and over temperature.

Model code

FMS-35-700 LD



Specification

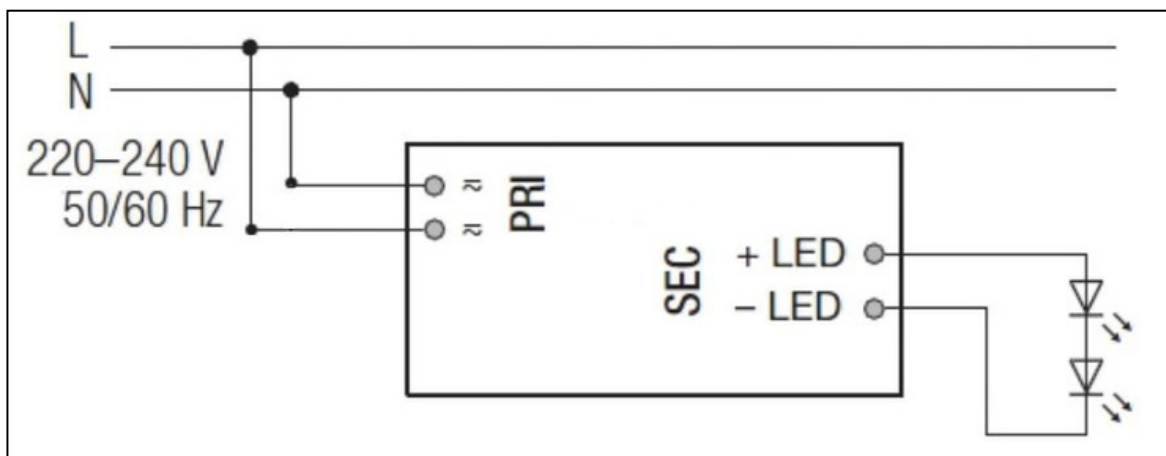
	Constant Current	300mA	350mA	500mA	600mA	700mA
Output	Voltage Range	15-52VDC				
	Unload voltage	Max. 60VDC				
	Current Accuracy	±5%				
	Output HF current ripple(≥1KHz)	±3%				
	Output LF current ripple(≤120Hz)	±3%				
	SVM	≤0.4				
	Pst	≤1				
	Efficiency(Typ.)	88%				
	Input	Rated input voltage	220-240VAC			
Range of input voltage		176-264VAC				
Frequency(Hz)		50/60Hz				
Power Factor		>0.95C				
Input Current		max 0.25A				
Start-up time		<0.5S				
No Load Power		≤0.5W				
THD(Typ.)		<15%.				
Protection	Over Load Protection	103-120% YES/Auto Resume				
	Over Voltage Protection	>6 0VDC YES/Auto Resume				
	Short circuit Protection	YES/AutoResume				
	Over Temperature Protection	YES/AutoResume				
Environment	Operating Temperature	-20°C~+50°C				
	Humidity	20%-90%RH				
	Tc	75°C				
	Storage Temperature	-25°C~+60°C				
	Lifetime	>50000h@Tc=65°C,230VAC				
Surface	Dimension	220X30X21(LXWXH)mm				
s standards	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	<p>1.All parameters NOT specially mentioned are measured at 230VAC input , full load and 25°C of ambient temperature.</p> <p>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.</p>					

Parameter

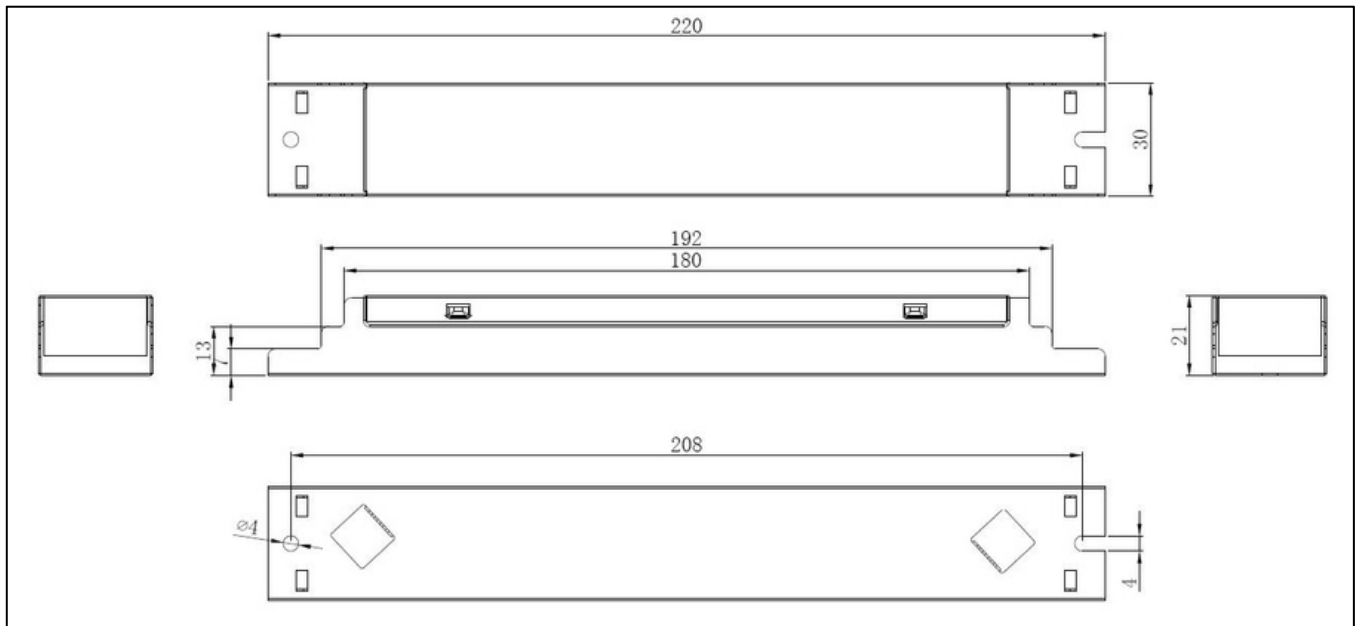
Number	Output				Switch position		
	Current (mA) I1+I2	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2	3
1	300mA	15-52	60	15.6W	--	--	--
2	350mA			18.2W	ON	--	--
3	500mA			26W	ON	ON	--
4	600mA			31.2W	ON	--	ON
*5	*700mA			36.4W	--	ON	ON

* Factory default

Wiring diagram



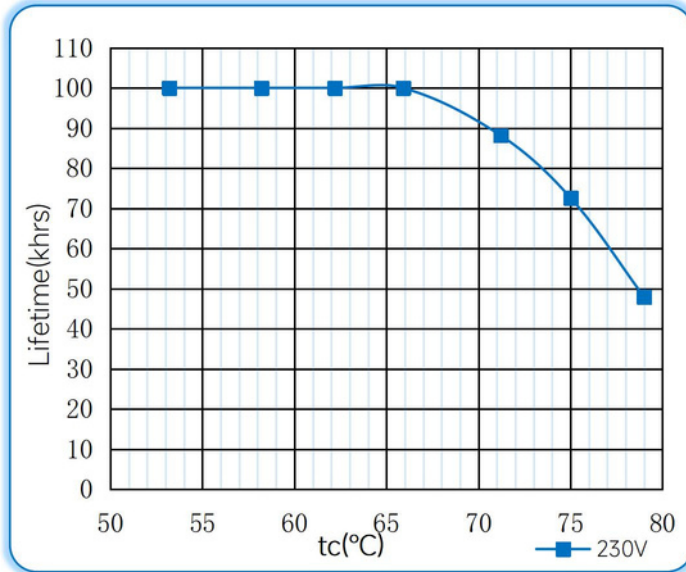
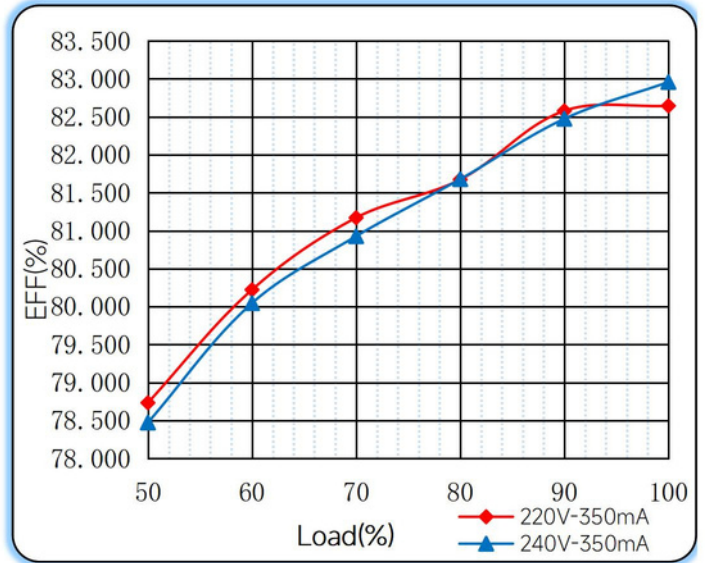
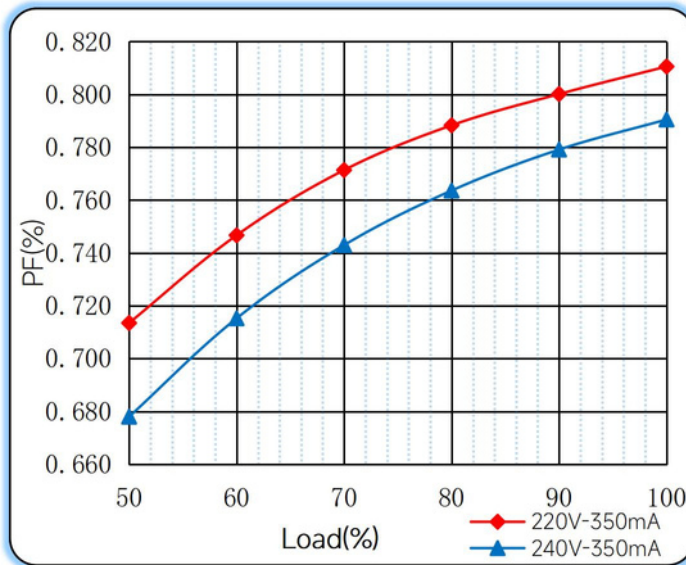
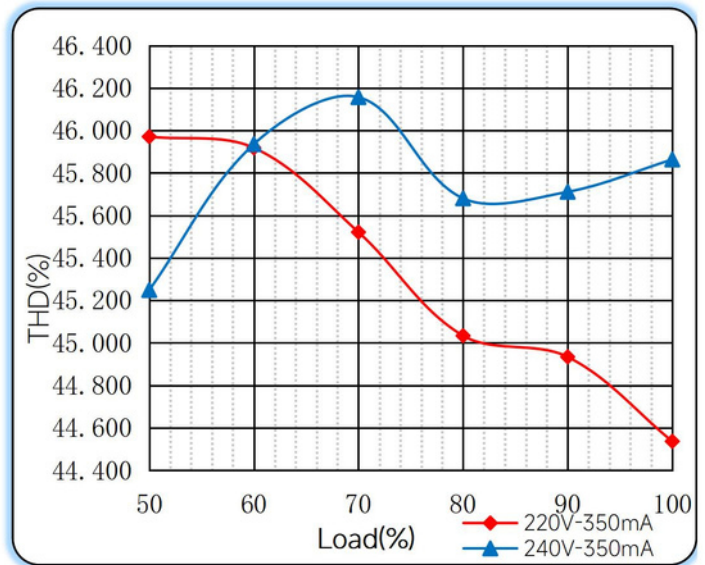
2D diagram



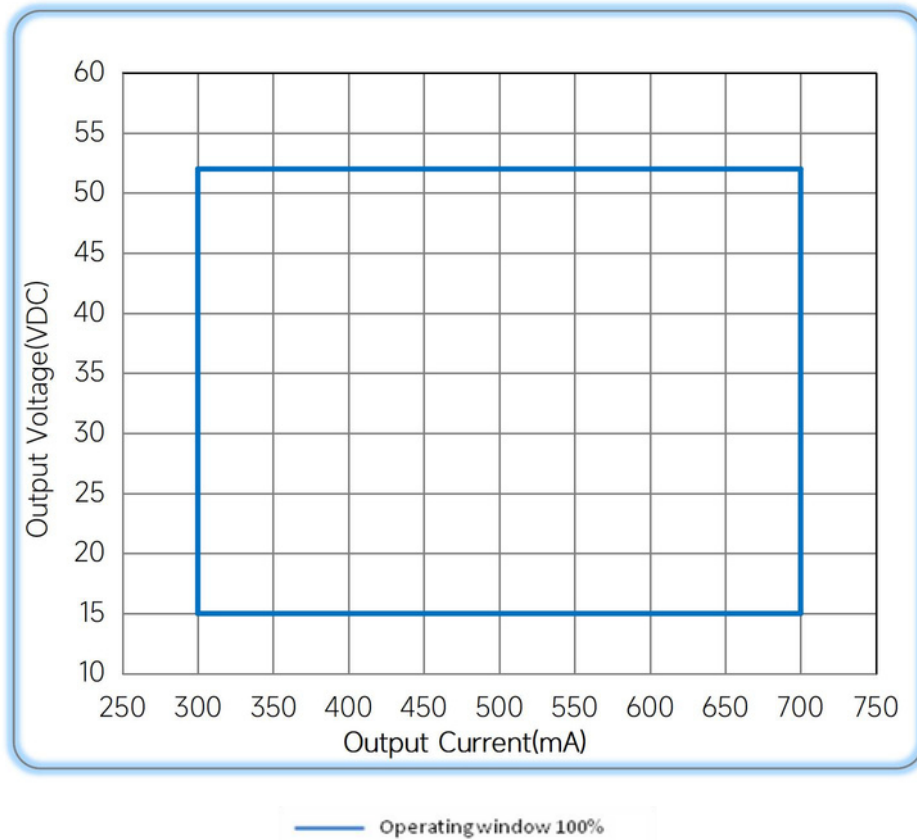
Wiring & Connections

	Specification item	Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ²
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

Curve for FMS-35-700 LD, $I_o=700mA$

Lifetime vs. Temperature Curve

Efficiency vs. Load

Power Factor Characteristics

THD vs. Load


Operating window



Revision Updates

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