

## 80W Constant Current -FMS Series



■ Approve



### Features

- Class I, non-isolated, built-in
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor > 0.9
- Efficiency  $\geq 91\%$
- Adjustable Output Current with dip-switch
- 5 years warranty

### Applications

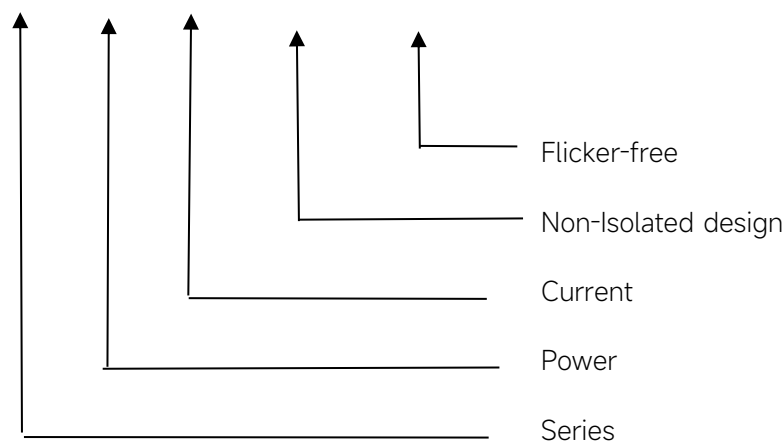
- Linear light, Troffer light

### ◆ Description

FMS-80-350 N-S LD is an 80W non-Isolated design constant current LED driver that operates from 198-264Vac input with 200 to 350mA output current and a forward voltage range from 140 to 230Vdc. The output current is selectable by DIP Switch. With it's compact dimensions from 280 x 30 x 21 mm it is easy to integrate in linear light and troffer light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

### ◆ Model code

#### FMS-80-350 N-SELV LD



## ◆ Specification

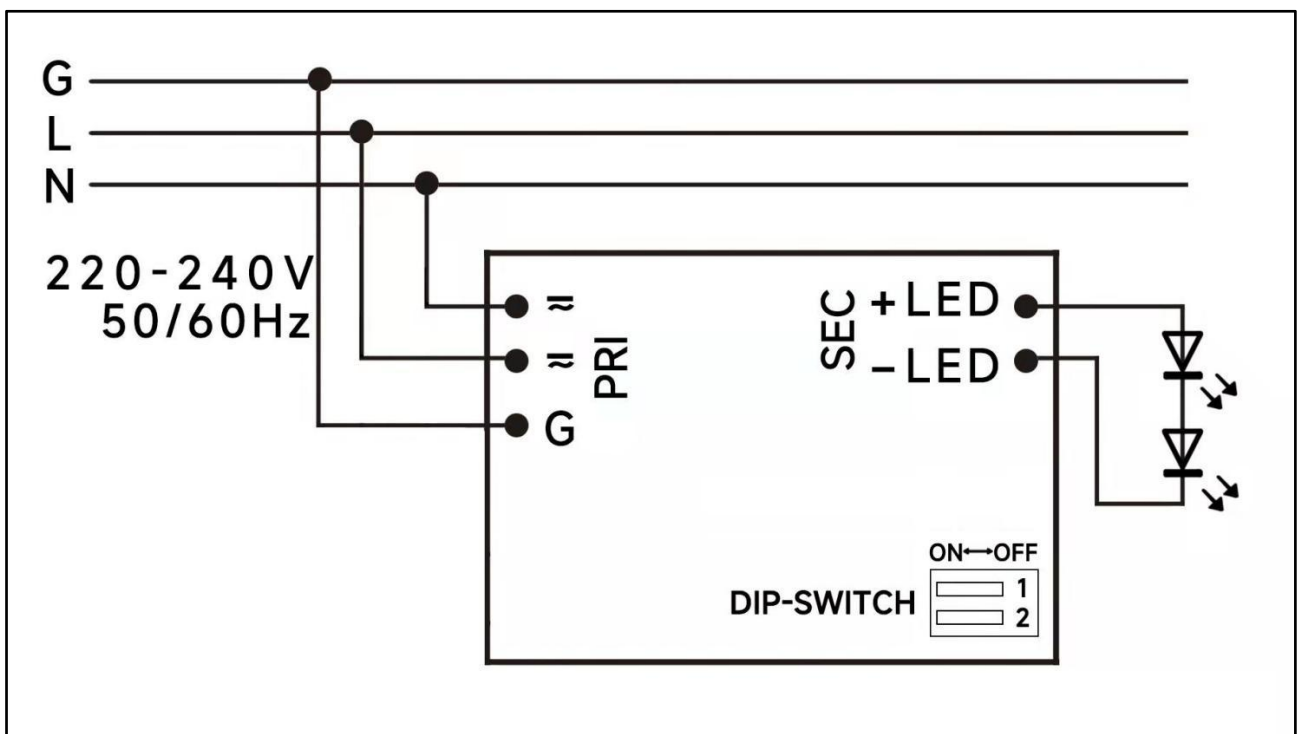
	Constant Current	200mA	250mA	300.mA	350mA
Output	Voltage Range	140-230VDC			
	Unload voltage Max.	400VDC			
	Current Accuracy	±8%			
	Output HF current ripple(≥1KHz)	±4%			
	Output LF current ripple(≤120Hz)	±4%			
	SVM	≤0.4			
	Pst	≤1			
	Efficiency(Typ.)	≥91%			
	Input	Rated input voltage	220-240VAC		
Range of input voltage		198-264VAC			
Frequency(Hz)		50/60 Hz			
Displacement factor		≥0.7			
Power Factor		> 0.9	> 0.95		
Input Current max		0.53A			
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	400VDC YES/Auto Resume			
	Short circuit Protection	YES/Auto Resume			
Environment	Operating Temperature	-25°C~+50°C			
	Humidity	20%-90%RH			
	Tc	75°C			
	Storage Temperature	-40°C~+85°C			
	Life time	> 50000h@Tc=75°C,230VAC			
Surface	Dimension	280X30X21(LXWXH)mm			
standards	EN 61347-1; EN61347-2-13; EN62384; EN55015; EN61000-3-2 ; EN61000-3-3; EN 61547;				
Others	ErP	EU 2019/2020			
	RoHS	RoHS (2011/65/EU) (EU)2015/863			
Note	1.All parameters NOT specially mentioned are measured at 240VAC input , full load and 25°C 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.				

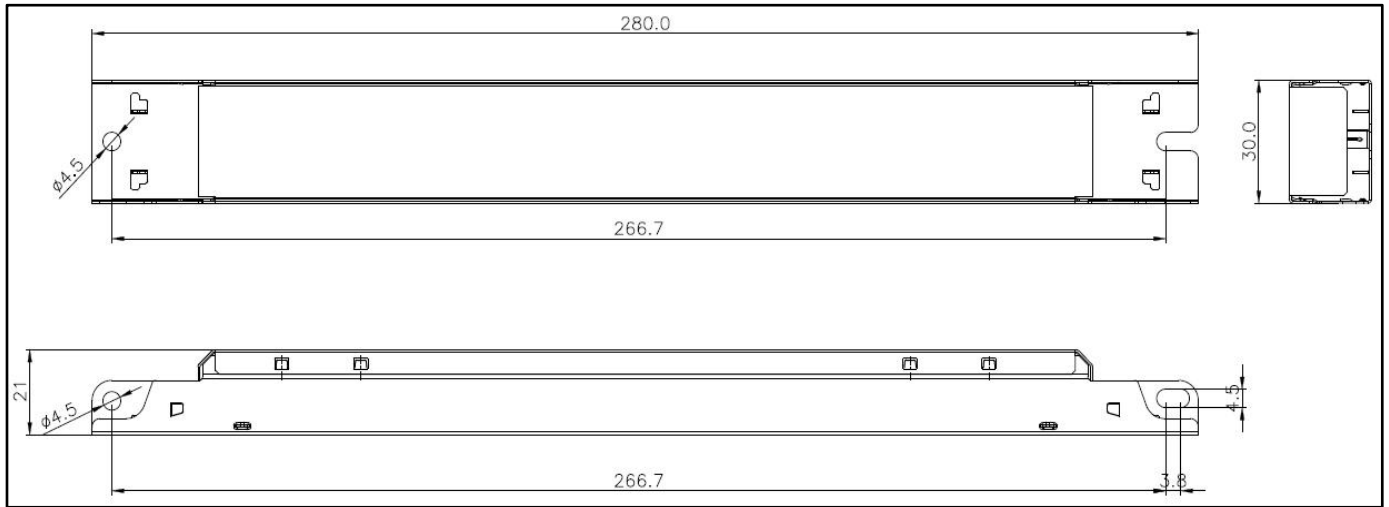
## ◆ Parameter

Number	Output				Switch position	
	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2
1	200mA	140-230VDC	400VDC	46	--	--
2	250mA	140-230VDC		57.5	--	ON
3	300mA	140-230VDC		69	ON	--
*4	350mA	140-230VDC		80.5	ON	ON

\* Factory default

## ◆ Wiring diagram

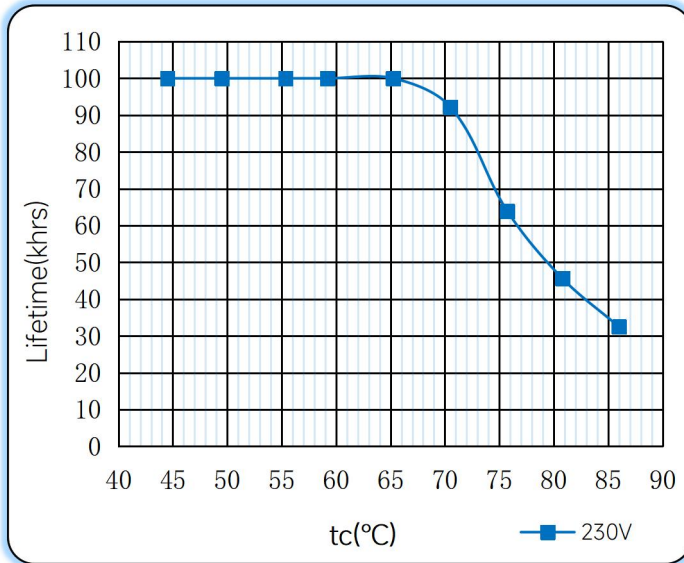


**◆ 2D diagram**

**◆ Wiring & Connections**

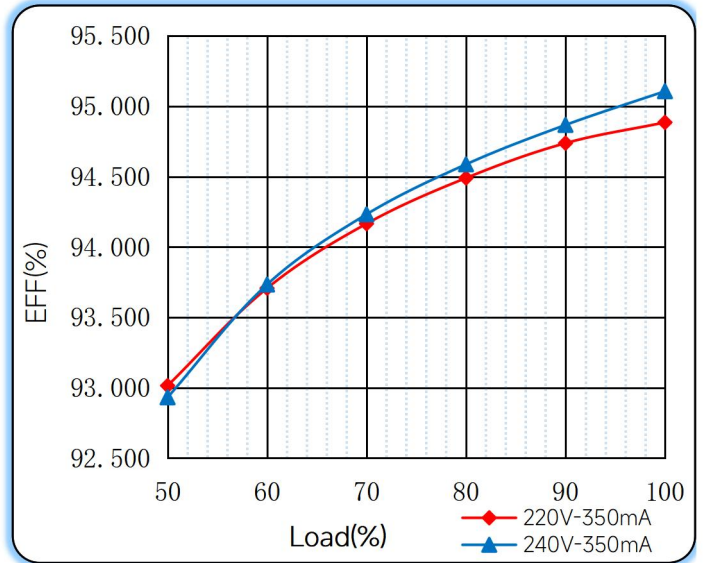
Specification item		Value (Unit )
Input	Input wire cross-section	0.5...1.5 mm <sup>2</sup>
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm <sup>2</sup>
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

## ◆ Curve for FMS-80-350 N-SELV LD, $I_o=350mA$

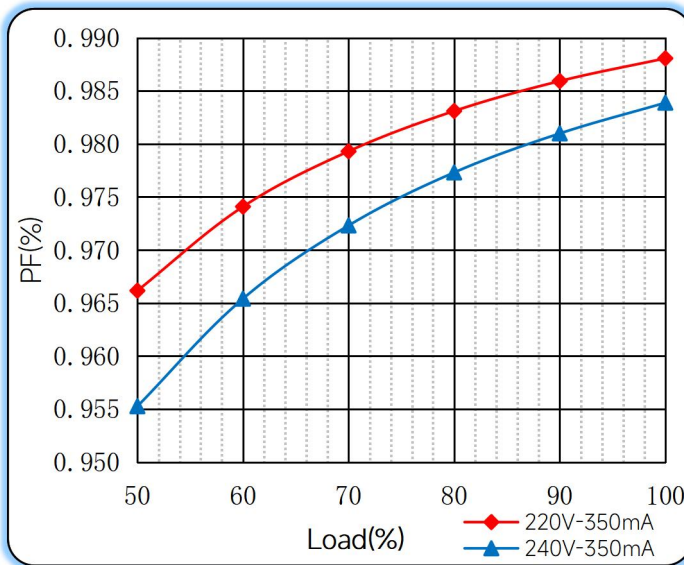
### Lifetime vs. Temperature Curve



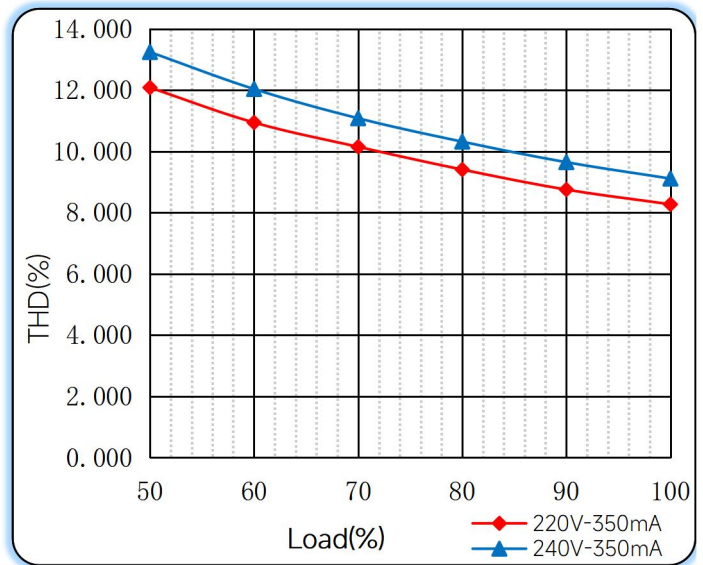
### Efficiency vs. Load



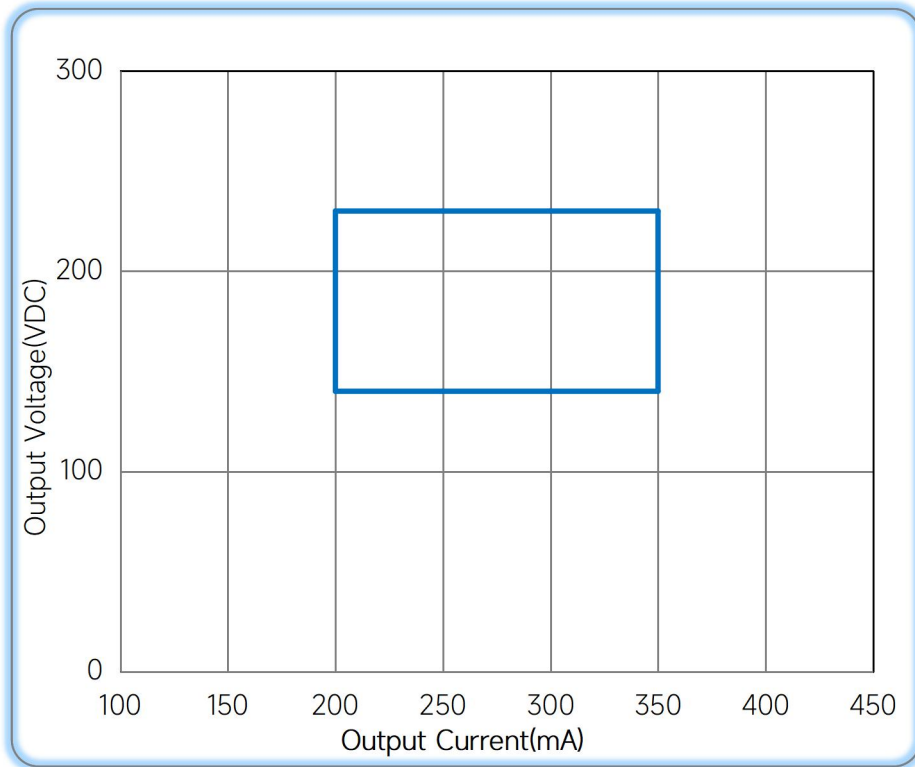
### Power Factor Characteristics



### THD vs. Load



◆ **Operating window**



— Operating window 100%

◆ **Revision Updates**

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

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Manual