

35W Constant Current power supply



■ Approve

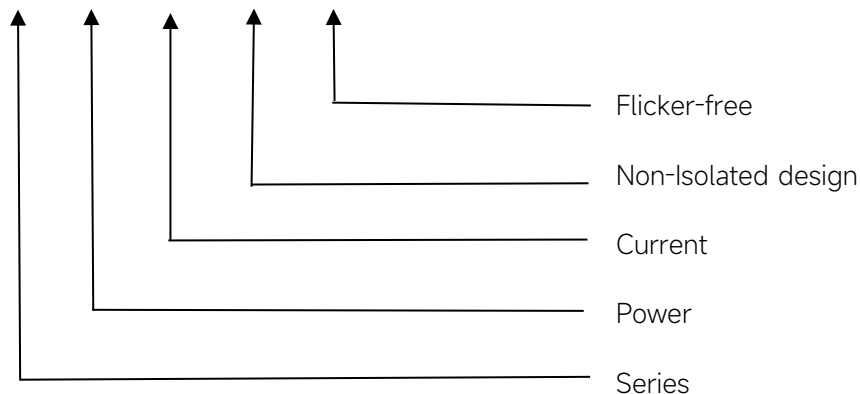
CE CB EL SELV

◆ Description

FMS-35-350 N-S LN is a 35W constant current LED driver that operates from 198-264VAC input with 80 to 350mA output current and a forward voltage range from 198-280VDC. The output current is adjustable by NFC. With it's compact dimensions from 280x30x16mm. 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-35-350 N-S LN



Features

- Class I, Non-Isolated design, Built-in
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor : 0.95(Typ.)
- Efficiency : 91%(Typ.)
- Adjustable Output Current with NFC
- 5 years warranty

Applications

- Linear light

◆ Specification

Output	Constant Current (mA)	80-350mA
	Voltage Range(VDC)	50-220VDC
	Unload voltage Max.(VDC)	< 320V RMS
	Current Accuracy	±5%
	Output HF current ripple(≥1KHz)	±15%
	Output LF current ripple(≤120Hz)	±3%
	SVM	<0.15@full Load, 220-240V
	Pst	<0.15@full Load, 220-240V
	Efficiency(Typ.)	≥91%@full Load, 220-240V
Input	Rated input voltage(VAC)	220-240VAC
	Range of input voltage(VAC)	198-264VAC
	Rated input voltage(VDC)	220-240VDC
	Range of input voltage(VDC)	198-280VDC
	Frequency(Hz)	0/50/60 Hz
	Displacement factor	> 0.95
	Power Factor	> 0.95@full Load, 220-240V
	Input Current max	0.23A Max
	Start-up time	< 0.5S
	No Load Power	≤0.5W
	THD (Typ.)	<10%@full Load, 220-240V
Protection	Over Load Protection	103-120% YES/Auto Resume
	Over Voltage Protection	< 320V RMS YES/Auto Resume
	Short circuit Protection	YES/Auto Resume
	Over Temperature Protection	YES/Auto Resume
Environment	Operating Temperature	- 25°C - 60°C
	Humidity	10% - 90%
	Tc	75°C
	Storage Temperature	-40°C - 70°C
	Life time	>50000h,@Tc=75°C
Surface	Dimension	280X30X16(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 230VAC 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.
- 3.The DC input for this product is only used for emergency lighting and applies to functional and safety requirements, EMC is not considered.
- 4.Switch and dimmer are not recommended to connect between this product output and luminaries.

◆ Parameter

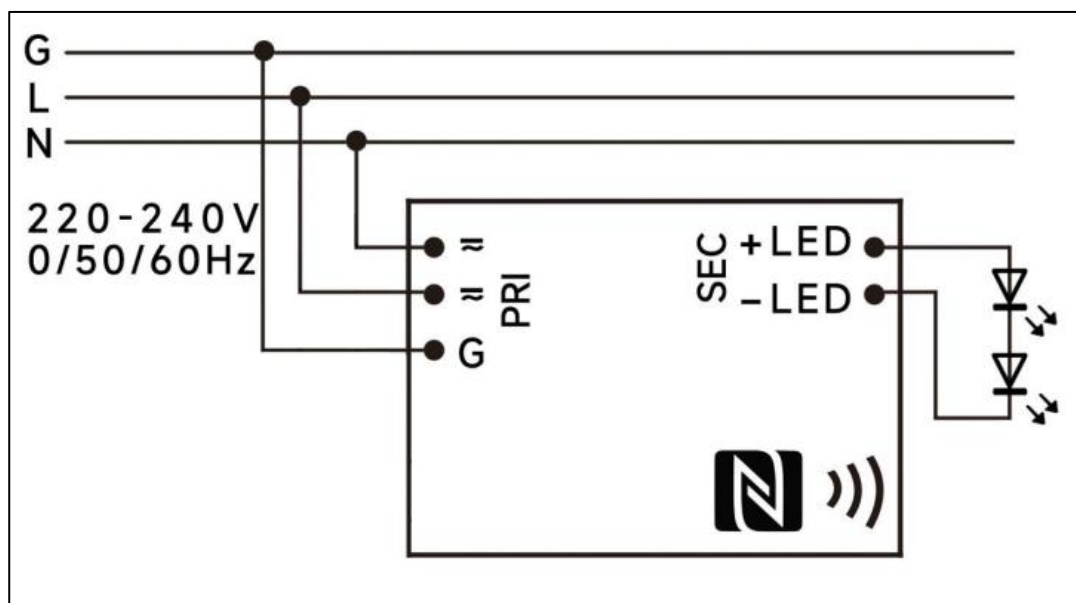
Number	Output			
	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)
*1	80mA	50-220VDC	300	17.6
2	...	...	...	...
3	159mA	50-220VDC	300	34.98
4	...	...	...	...
5	350mA	50-100VDC	300	35

* Factory default

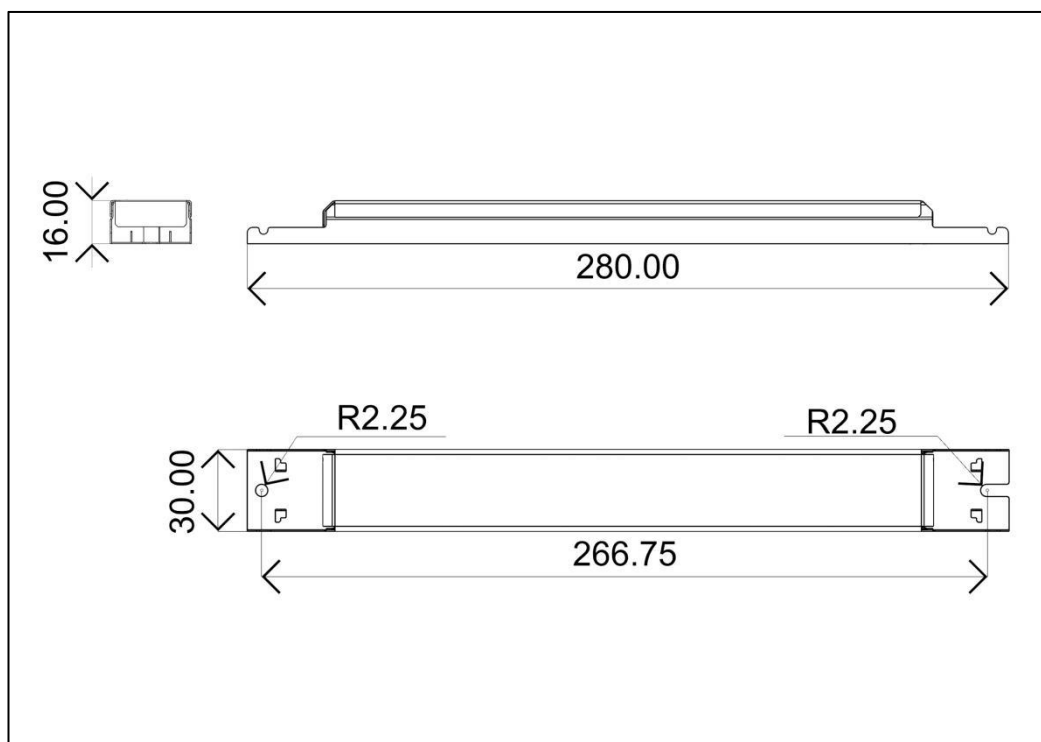
◆ Circuit Breaker

I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
31.1A	122μs	22pcs	35pcs	44pcs	34pcs	55pcs	69pcs

◆ Wiring diagram



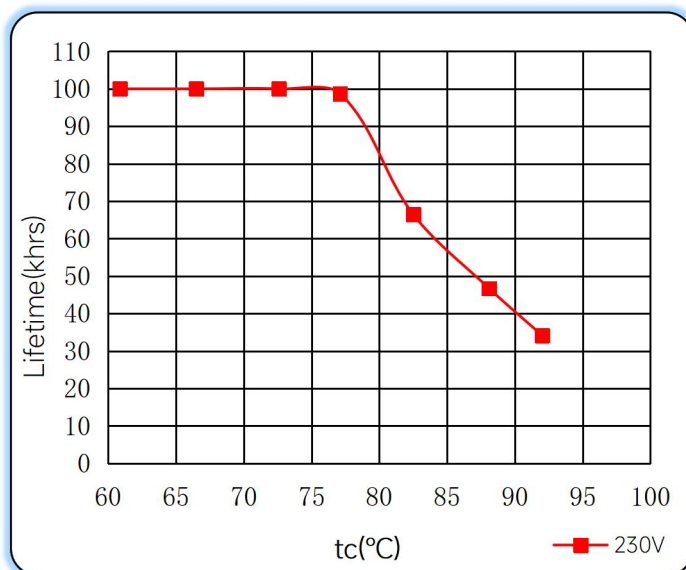
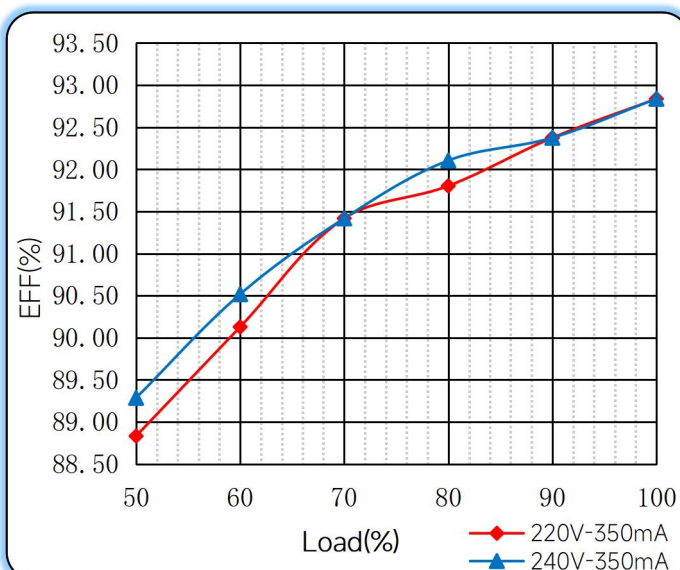
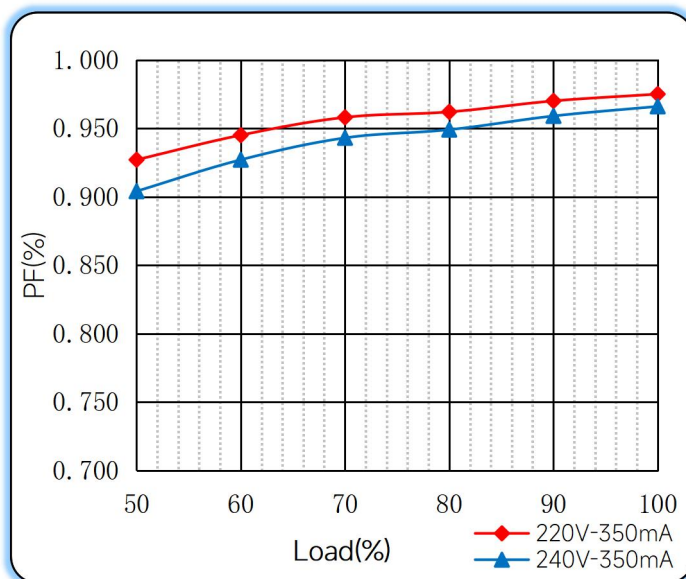
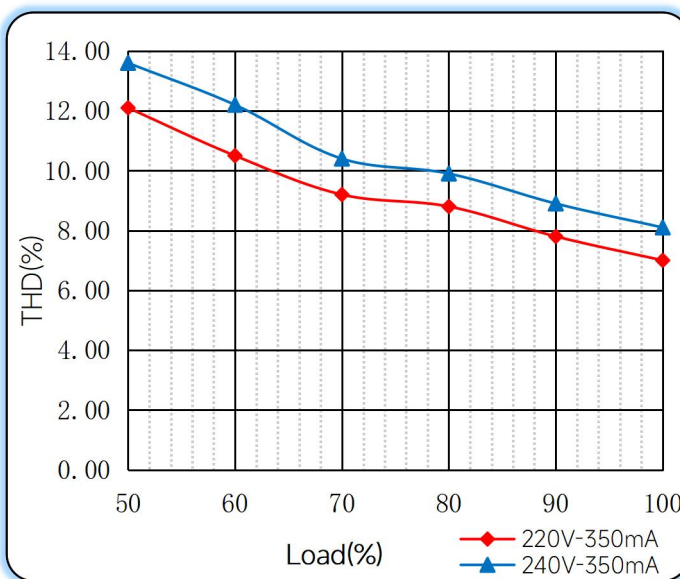
◆ 2D diagram



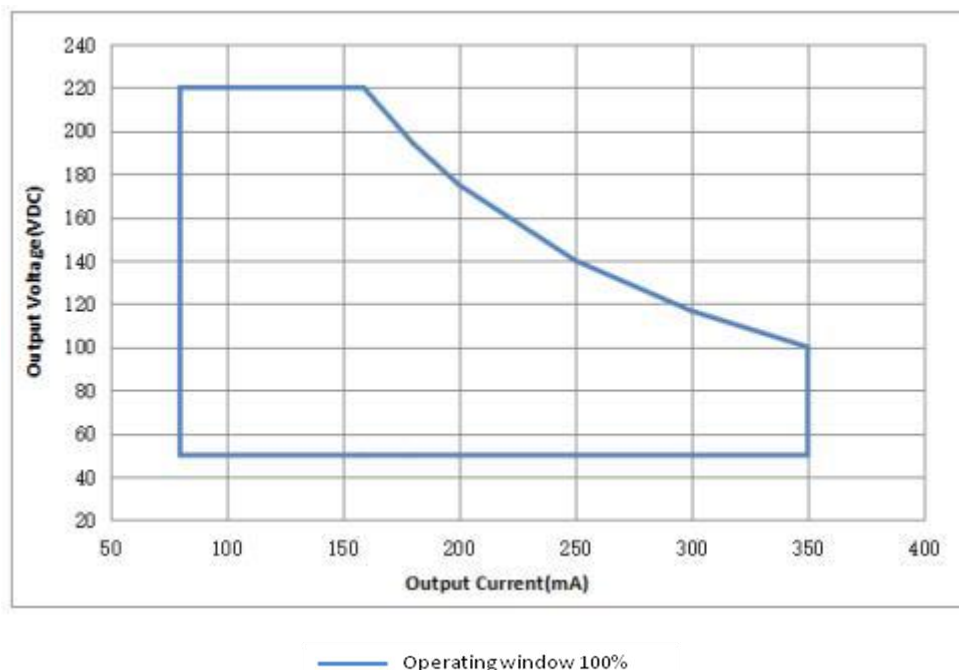
◆ Wiring & Connections

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-35-350 N-S LN, $I_o=350\text{mA}$

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
Curve		Added	B	2023/01/11
Unload voltage Max.	<400V RMS	<320V RMS	C	2023/05/17

Tel: +86-0757-86256822, +86-0757-86256831

E-mail: sales@eaglerise.com

Website : <https://lighting.eaglerise.com>



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Manual