

60W Constant Current CCT power supply



Features

- For luminaries of protection Class I/II , Non-isolated, Built-in
- Input Voltage :220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor: 0.95(Typ.)
- Efficiency: ≥92% (Typ.)
- Adjustable Output Current with dip-switch
- 5 years warranty
- IP20

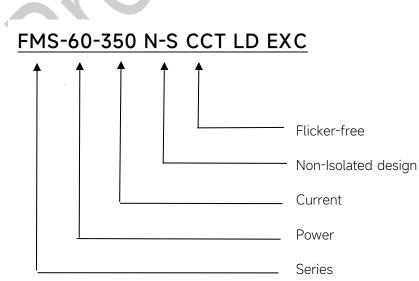
Applications

• Linear light

Description

FMS-60-350 N-S CCT LD EXC is a 60W constant current LED driver that operates from 198-264Vac input with 200 to 350mA output current. The output current is adjustable by DIP Switch. With it's dimensions from 190 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 voltage and over temperature.

Model code





Specification

	Constant Current	200mA	250mA	300mA	350mA			
Output	Voltage Range	70-200VDC			70-172VDC			
	Unload voltage Max.	250VDC						
	Current Accuracy	±5%						
	Output HF current ripple(>1KHz)	±15%						
	Output LF current ripple(<120Hz)	±5%						
	SVM	≤0.4						
	Pst	ৰা						
	Efficiency(Typ.)	≥92% @Full load ,220-240V						
	CCT funtion	YES/Three-step color temperature adjustment via tact switch						
	Rated input voltage	220-240V						
	Range of input voltage	198-264VAC						
	Maximum voltage	300VAC@1 h maxi	num,unit might not	operate in this al	bnormal condition			
	Range of input DC voltage(VDC)	176-280VDC						
Input	Frequency(Hz)	0/50/60 Hz						
	Displacement factor	≥0.95						
•	Power Factor	≥0.95 @Full load ,220-240V						
	Input Current max	0.38A						
	Start-up time	< 0.5S						
	No Load Power	≤0.5W						
	THD (Typ.)	<10%@Full load ,220-240V						
	Over Load Protection	103-140%						
		YES/Auto Resume						
Protection	Over Voltage Protection	>250V						
		YES/Auto Resume						
	Short circuit Protection	YES/Auto Resume						
capability	Surge capability (L-N)	2KV						
Сараршиу	Surge capability (L/N-Ground)	2KV						
	Operating Temperature	-20°C~+50°C						
	Humidity	20%-90%RH						
Environmont	Тс	85°C						
Environment	Storage Temperature	-25°C~+60°C						
	Life time	> 50000h@Tc=75°C,230VAC						
	Noise	≤25dB(A)@20cm						
Surface	Dimension	190X30X21(LXWXH)mm						
Sullace	material	metal case						
Standards	Safety	GB19510. 1, GB19510. 14; IEC61347- 1, IEC61347-2- 13; EN61347- 1, EN61347-2- 13, EN62384;AS/NAS 61347- 1, AS/NAS 61347-2- 13;AS/NZS 61347.1,AS 61347.2.13						



	EMC	GB/T17743, GB17625. 1; EN55015, EN61000-3-2, EN61000-3-3, EN61547;					
		EN55015, EN61000-3-2, EN61000-3-3, EN61547; EN61000-4-5					
	ErP	Erp2.0 EU 2019/2020					
	RoHS	RoHS (2011/65/EU) (EU)2015/863					
	1.All parameters not specia	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.Switch and dimmer are r	3.Switch and dimmer are not recommended to connect between this product output and luminaries.					
	4.The over-temperature pr	4. The over-temperature protection of the product is provided by the IC.					
Note	5. The DC input for this product is only used for emergency lighting and applies to functional and safety requirements, EMC is not considered.						
		6.EL compatible with IEC 61347-2-13 Annex J, compatible with EN 60598-2-22 emergency lighting fixtures, compatible with EN 50172 central battery system applications.					
		7.All Astralux power supply are complied with EMI regulations. Since they are belong to component and will be installed inside system					
	enclosure. When they are int	enclosure. When they are integrated into a system, the EMI characteristics of the system must be re-verified again.					



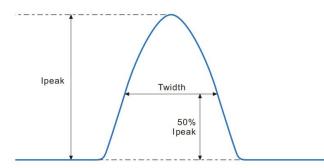
Parameter

	Output				Switch position	
Number	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2
1	200mA	70-200 70-172		40W		
2	250mA		250	50W	ON	
3	300mA		250	60W		ON
*4	350mA			60.2W	ON	ON

* Factory default

Inrush Current

I ^{peak}	Twidth	B10	B16	B20	C10	C16	C20
43.6A	190µ s	9pcs	15pcs	19pcs	15pcs	25pcs	31pcs



Remarks:

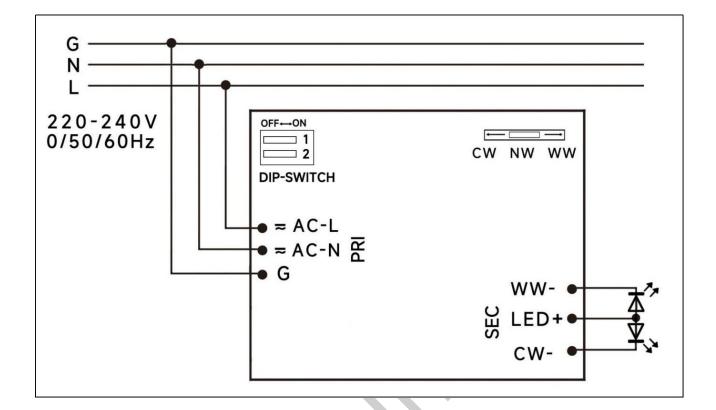
1. The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.

2.Different brands and models of miniature circuit breakers, the number of drives mounted will be slightly different.



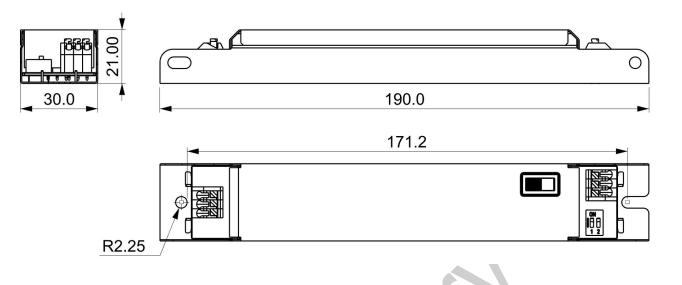
Article information 2024/ 04/27







♦ 2D diagram



Wiring & Connections

	Specification item	Value (Unit)
	Input wire cross-section	0.51.5 mm²
Input	Input wire gauge.	1620 AWG
	Input wire strip length	79mm
	Output wire cross-section	0.51.5 mm ²
Output	Output wire gauge.	1620 AWG
	Output wire strip length	79mm

Note:Solid wire is risky to use on an angled terminal.Stranded wire is recommended for this kind of use.

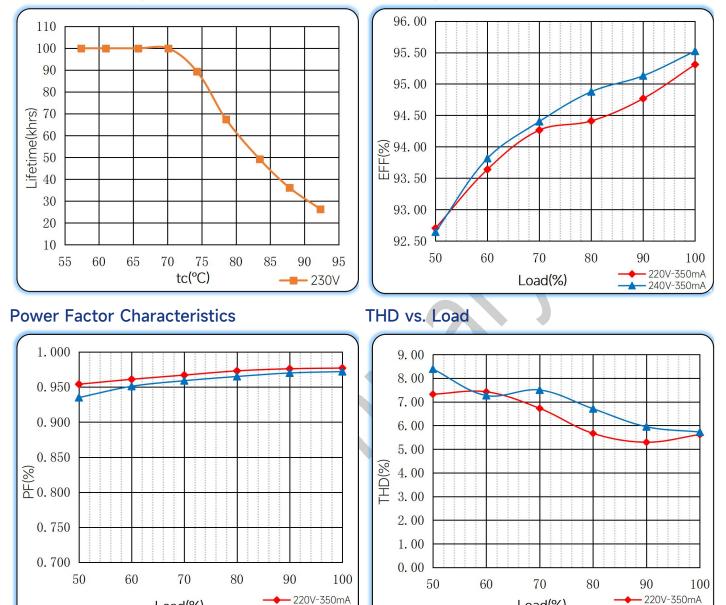


Load(%)

Curve for FMS-60-350 N-S CCT LD EXC, lo=350mA

Lifetime vs. Temperature Curve

Efficiency vs. Load



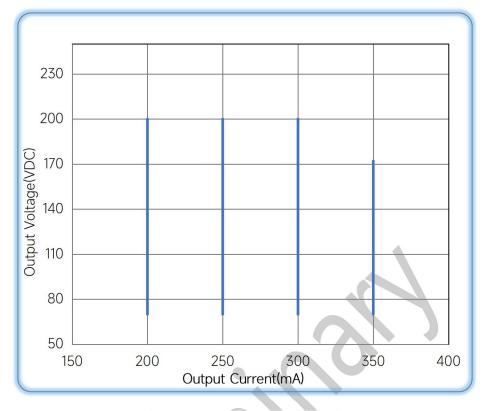
Load(%)

240V-350mA

-240V350mA



Operating window



— Operating window 100%

• Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			А	2024/04/27

Remark: The final interpretation of the contents of the specification belongs to Astralux.

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