

# **40W Constant Current -FMS Series**



### Features

- For luminaries of protection Class I or II , Non-isolated, Built-in
- Input Voltage :220-240VAC
- Protections: SCP/OVP/OTP
- Power Factor: 0.95(Typ.)
- Efficiency: ≥90%(Typ.)
- Adjustable Output Current with dip-switch
- 5 years warranty
- IP20

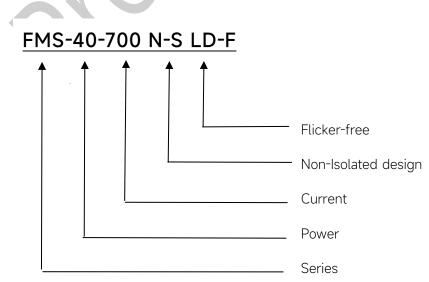
### Applications

• Linear light

### Description

FMS-40-700 N-S LD-F is a 40W constant current LED driver that operates from 198-264Vac input with 350 to 700mA output current. The output current is adjustable by DIP Switch. With it's dimensions from 168 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	350mA	400mA	450mA	mA	700mA		
Output	Voltage Range	40-114VDC	40-100VDC	40-89VDC	VDC	40-57.2VDC		
	Unload voltage Max.(VDC)	150VDC						
	Current Accuracy	±5%						
	Output HF current ripple(≥1KHz)	±5%						
	Output LF current ripple(≤120Hz)	±5%						
	SVM	≤0.4						
	Pst	ৰা						
	Efficiency(Typ.)	≥90%@Full load ,220-240V						
	Rated input voltage	220-240V						
	Range of input voltage	198-264VAC						
	Maximum voltage	300VAC@1 h maximum, unit might not operate in this abnormal condition						
	Range of input DC voltage(VDC)	176-280VDC						
	Frequency(Hz)	0/50/60 Hz						
Input	Displacement factor	≥0.9						
	Power Factor	≥0.95@Full load ,220-240V						
	Input Current max	0.3A						
	Start-up time	< 0.5S						
	No Load Power	≤0.5W						
	THD (Typ.)	<10% @Full load ,220-240V						
	Over Load Protection	103-130%						
		YES/Auto Resume						
Protection		>150V						
	Over Voltage Protection	YES/Auto Resume						
	Short circuit Protection	YES/Auto Resume						
о I 1111	Surge capability (L-N)	1KV						
Capability	Surge capability (L/N-Ground)	2KV						
	Operating Temperature	-20°C ~+50°C						
	Humidity	20%-90% RH						
Factor 1	Тс	90°C						
Environment	Storage Temperature	-40°C ~+85°C						
	Life time	>50000h@Tc=80°C ,230VAC						
	Noise	<25dB(A)@20cm						
~ · ·	Dimension	168 x 30 x 21(LXWXH)mm						
Surface	material	metal case						
Standards	Safety	IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2- 13;EN61347- 1, EN61347-2- 13, EN62384						
	EMC		161000-3-2, EN61 61000-4-2,3,4,5,6					
Article inform	nation 2024/ 05/17 F	REV: B	astralux-dr	iver com	VGE-D7	Z-YF-002-07A		



	ErP	Erp2.0 EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	<ul> <li>2.Ripple &amp; Noise are measured at 20N parallel capacitor.</li> <li>3.The DC input for this product is only not considered.</li> <li>4.EL compatible with IEC 61347-2-13 A 50172 central battery system applicati 5.Switch and dimmer are not recommed. The current with load range cannot 7.The over-temperature protection of 8.The current with load range cannot 9.All Astralux power supply are compliced</li> </ul>	mended to connect between this product output and luminaries. exceed 130% of the maximum power at full load.

# Parameter

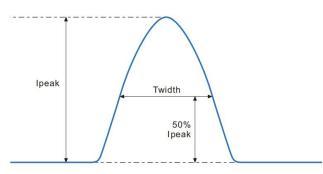
Number	Output				Switch position		
	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2	3
1	350mA	40-114VDC		42			
2	400mA	40-100VDC		40	ON		
3	450mA	40-89VDC		40		ON	
4	500mA	40-80VDC	105,400	40	ON	ON	
5	550mA	40-72.7VDC	125VDC	40			ON
6	600mA	40-66.7VDC		40	ON		ON
7	650mA	40-61.5VDC		40		ON	ON
*8	700mA	40-57.2VDC		40	ON	ON	ON

\* Factory default



# Inrush Current

Ipeak	Twidth	B10	B16	B20	C10	C16	C20
15.4A	<b>158μ</b> s	26pcs	42pcs	53pcs	26pcs	42pcs	53pcs

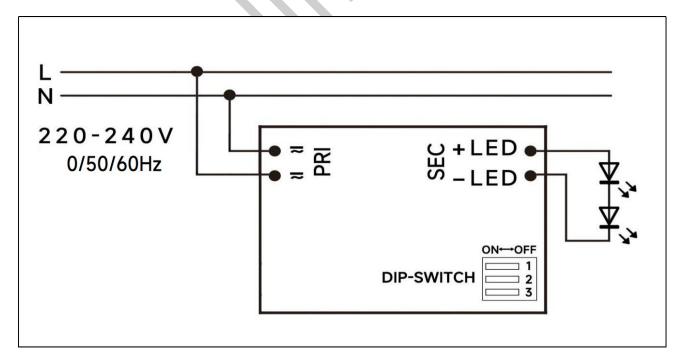


#### Remarks:

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

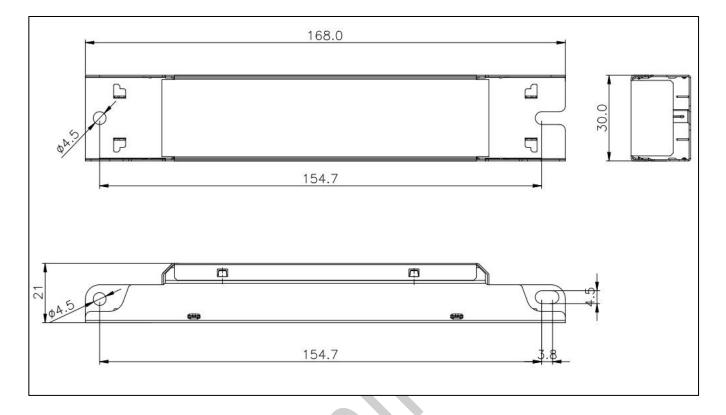
2.Different brands and models of miniature circuit breakers, the number of drives mounted will be slightly different.

# Wiring diagram





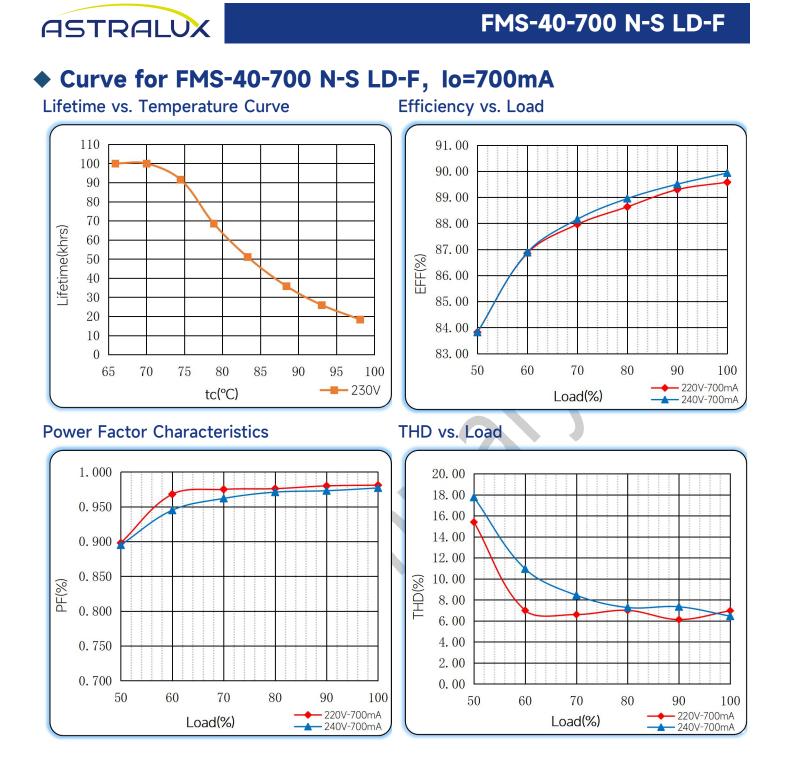
# 2D diagram



# Wiring & Connections

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

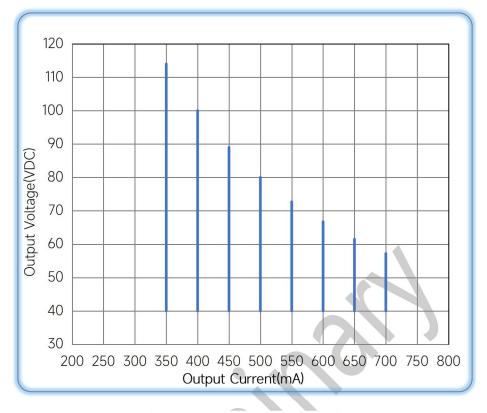
Note:Solid wire is risky to use on an angled terminal.Stranded wire is recommended for this kind of use.





## FMS-40-700 N-S LD-F

# Operating window



— Operating window 100%

# Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			А	2024/03/07
Unload voltage Max.(VDC)	125VDC	150VDC	В	2024/0517

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

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