

40W LED Driver Constant Current



■ Approve



Features

- Class I, built-in
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor: 0.95(Typ.)
- Efficiency: 90%(Typ.)
- Non-Isolated design
- Nominal life-time up to 50000h
- 5 years warranty

Applications

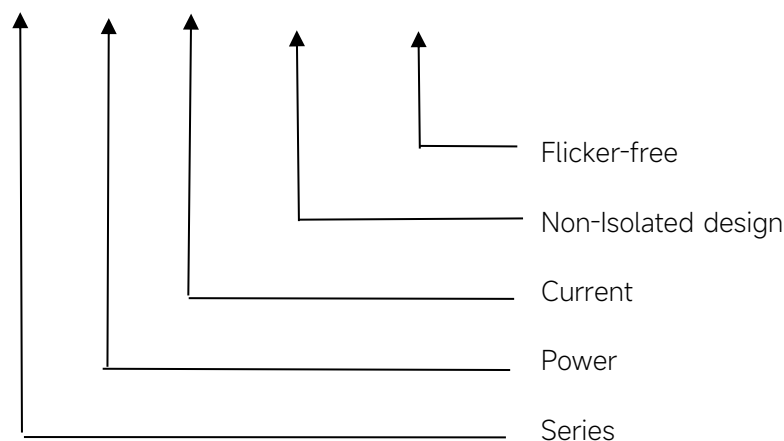
- Linear light

◆ Description

MS-40-XXX N-SELV LX is a non-Isolated 40W constant current LED driver that operates from 176-264Vac input with 250 to 350mA output current. With it's compact 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 and over Load.

◆ Model code

MS-40-XXX N-SELV LX



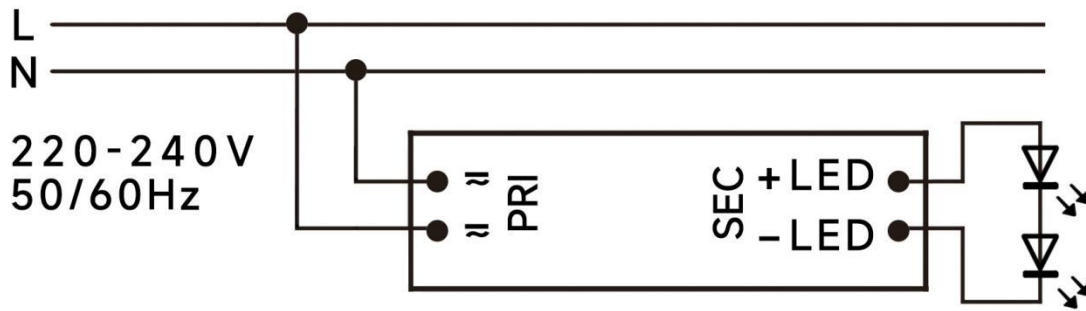
◆ Specification

	Constant Current	250mA	300mA	350mA
Output	Voltage Range	80-160VDC	70-140VDC	57-114VDC
	Unload voltage Max.	350VDC	330VDC	320VDC
	Current Accuracy	±7%		
	Output HF current ripple(≥1KHz)	±4%		
	Output LF current ripple(≤120Hz)	±4%		
	SVM	≤0.4		
	Pst	≤1		
	Efficiency(Typ.)	≥90%		
	Input	Rated input voltage	220-240VAC	
Range of input voltage		176-264Vac		
Frequency(Hz)		50/60 Hz		
Displacement factor		≥0.7		
Power Factor		>0.95		
Input Current max		0.29A		
Start-up time		< 0.5S		
No Load Power		≤0.5W		
THD (Typ.)		<10%		
Protection	Over Load Protection	103-120% YES/Auto Resume		
	Over Voltage Protection	> 180VDC	> 155VDC	> 130VDC
	Short circuit Protection	YES/Auto Resume		
Environment	Operating Temperature	-20°C~+50°C		
	Humidity	20%-90%RH		
	Tc	75°C		
	Storage Temperature	-40°C~+60°C		
	Life time	> 50000h@Tc=65°C,230VAC		
Surface	Dimension	190 x 30 x 21(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.			

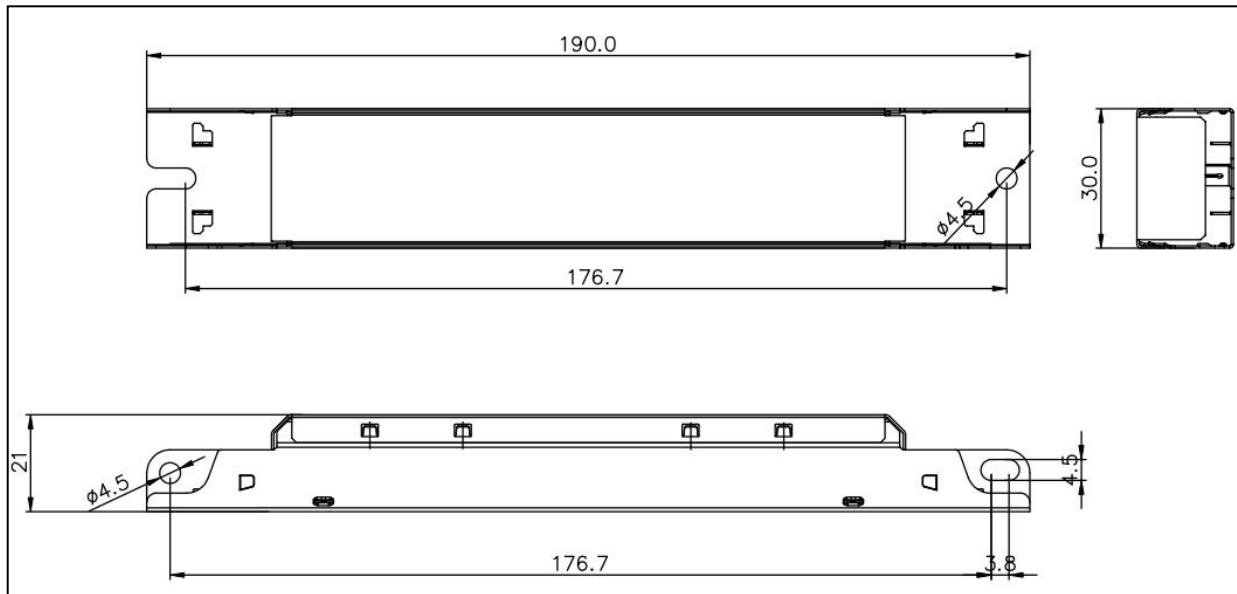
◆ **Circuit Breaker**

I ^{peak}	T ^{width}	B10	B16	B20	C10	C16	C20
6.32A	46μs	27pcs	44pcs	55pcs	27pcs	44pcs	55pcs

◆ **Wiring diagram**



◆ **2D diagram**

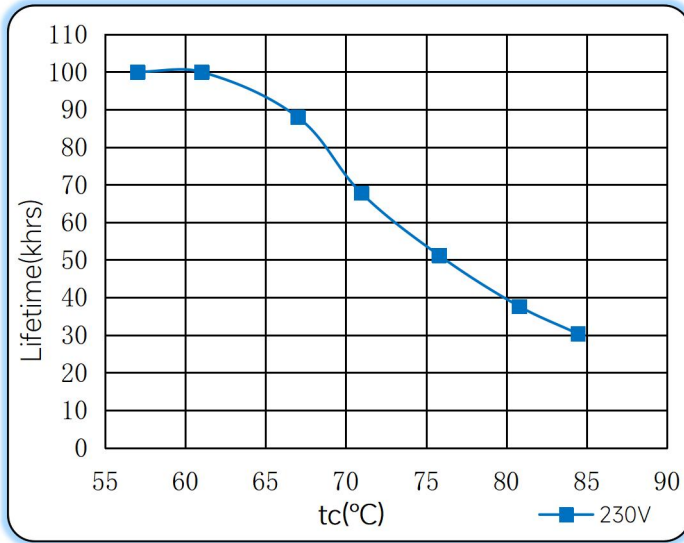


◆ **Wiring & Connections**

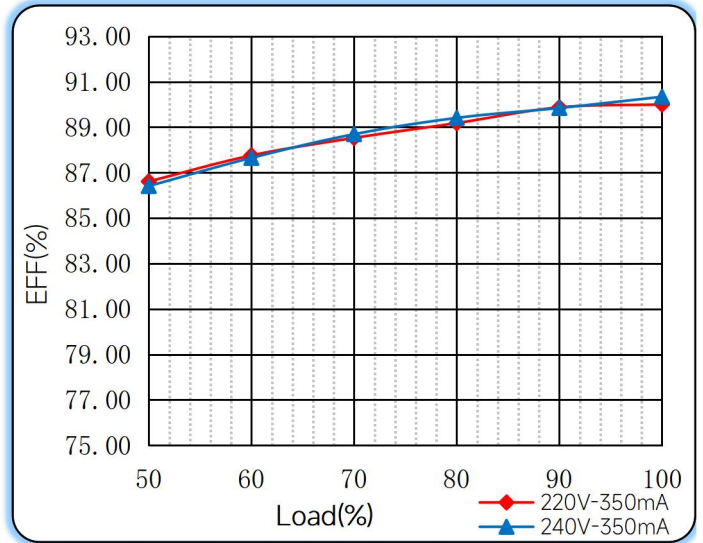
	Specification item	Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ²
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

◆ Curve for MS-40-350 N-SELV LX, $I_o=350\text{mA}$

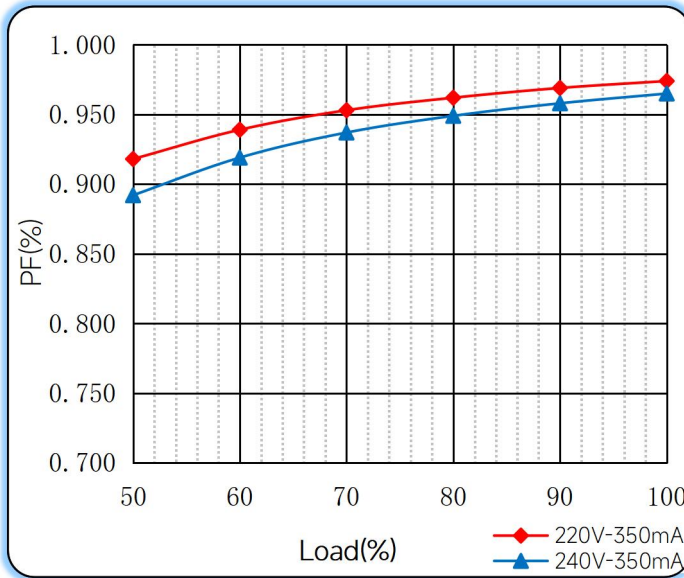
Lifetime vs. Temperature Curve



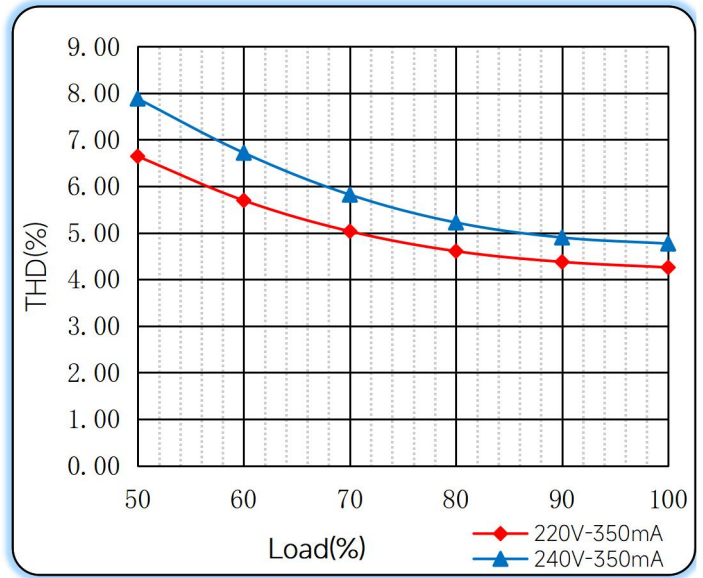
Efficiency vs. Load



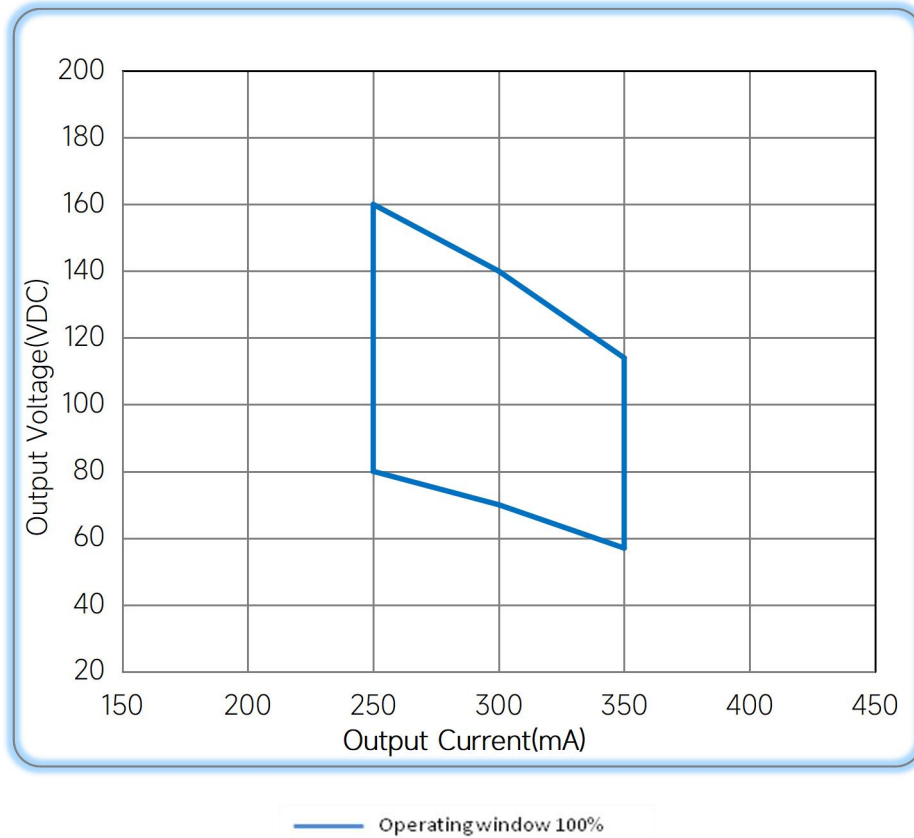
Power Factor Characteristics



THD vs. Load



◆ **Operating window**



◆ **Revision Updates**

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



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