

60W Constant Current power supply



■ Approve



Features

- Class I, SELV, Built-in
- Input Voltage: 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor: 0.95@Full load
- Efficiency: 88%@Full load
- 5 years warranty
- IP20

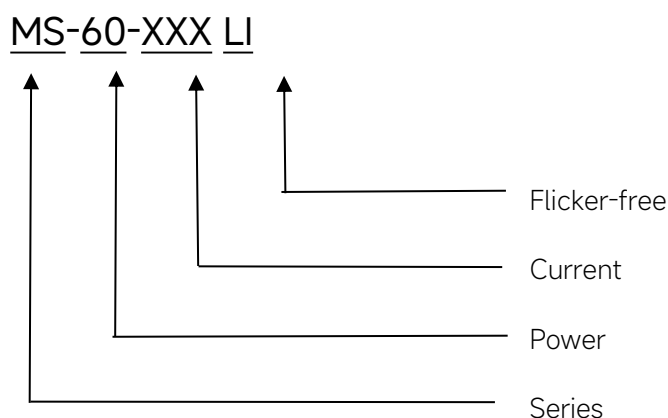
Applications

- LED panel, LED down light

◆ Description

MS-60-XXX LI is a 60W constant current LED driver with 1050 to 1500mA output current. With it's compact dimensions from 250 x30 x 25mm. It is easy to integrate in LED Panel, and down lights product. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code



◆ Specification

Output	Constant Current (mA)	1050mA	...	1500mA
	Voltage Range(VDC)	28-52VDC	...	24-40VDC
	Unload voltage Max.(VDC)	59VDC	...	55VDC
	Current Accuracy	±5%		
	Output HF current ripple(≥1KHz)	±5%		
	Output LF current ripple(≤120Hz)	±3%		
	SVM	< 0.4		
	Pst	< 1		
	Efficiency(Typ.)	88%@Full load,230V		
Input	Rated input voltage(VAC)	220~240VAC		
	Range of input voltage(VAC)	198~264VAC		
	Range of input voltage(VDC)	198~280VDC		
	Frequency(Hz)	0/50/60Hz		
	Displacement factor	> 0.9		
	Power Factor	0.95@Full load,230V		
	Input Current max	0.38A		
	Start-up time	< 0.5S		
	No Load Power	<0.5W		
	THD (Typ.)	<10%@Full load,230V		
Protection	Over Load Protection	103-120%		
		YES/Auto Resume		
	Over Voltage Protection	59VDC	...	55VDC
		YES/Auto Resume		
	Short circuit Protection	YES/Auto Resume		
Environment	Operating Temperature	-25°C~60°C		
	Humidity	10%~90%		
	Tc	85°C		
	Storage Temperature	-25°C~80°C		
	Life time	> 50000h@Tc=85°C		
Surface	Dimension	250X30X25mm		
Standards	EN 61347-1,EN 61347-2-13; IEC 61347-1,IEC 61347-2-13; EN 62384; EN IEC 55015,EN IEC 61000-3-2,EN 61000-3-3			
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.Switch and dimmer are not recommended to connect between this product output and luminaries.			

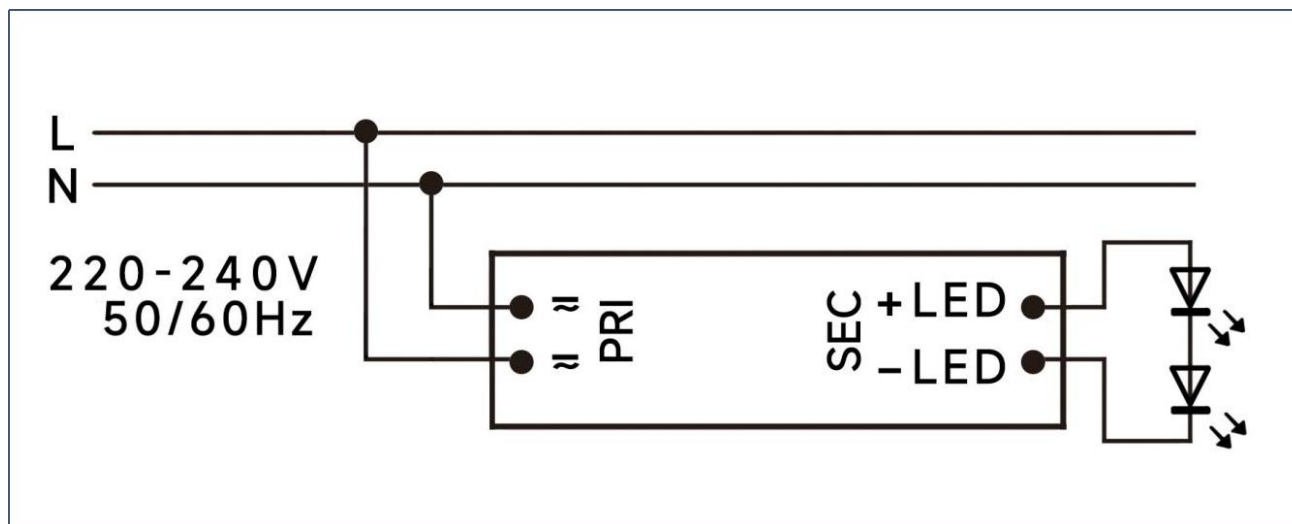
◆ Model list

Number	Model number	Output			
		Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)
1	*MS-60-1050 LI	1050	28-52	59	54.6
2	*MS-60-1100 LI	1100			57.2
3	*MS-60-1150 LI	1150			59.8
4	MS-60-1200 LI	1200	28-50		60
5	*MS-60-1250 LI	1250	28-48		60
6	*MS-60-1300 LI	1300	24-42	55	54.6
7	MS-60-1350 LI	1350			56.7
8	*MS-60-1400 LI	1400			58.8
9	*MS-60-1450 LI	1450			60.9
10	*MS-60-1500 LI-	1500	24-40		60

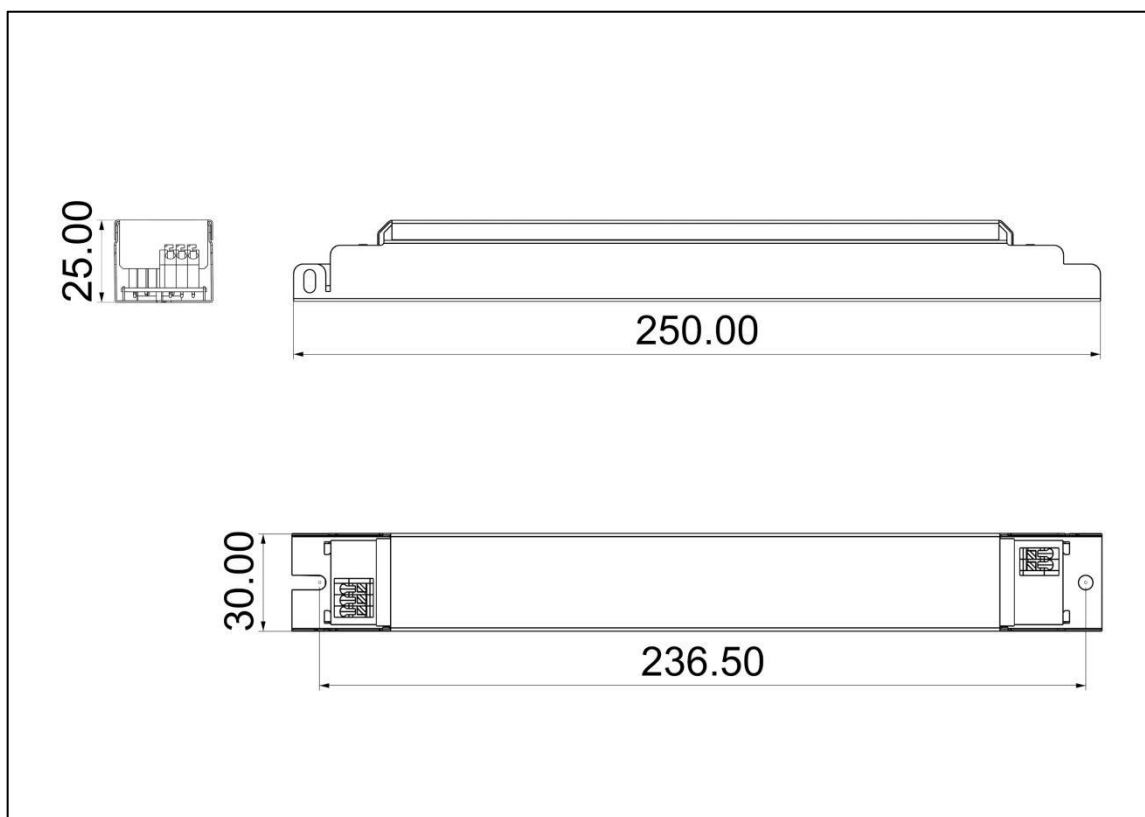
◆ Circuit Breaker

I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
33.1A	234μs	10pcs	16pcs	20pcs	17pcs	27pcs	34pcs

◆ Wiring diagram



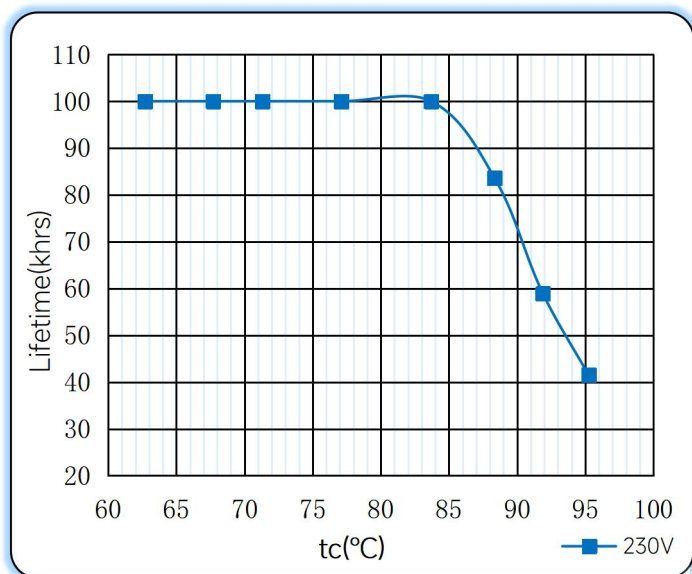
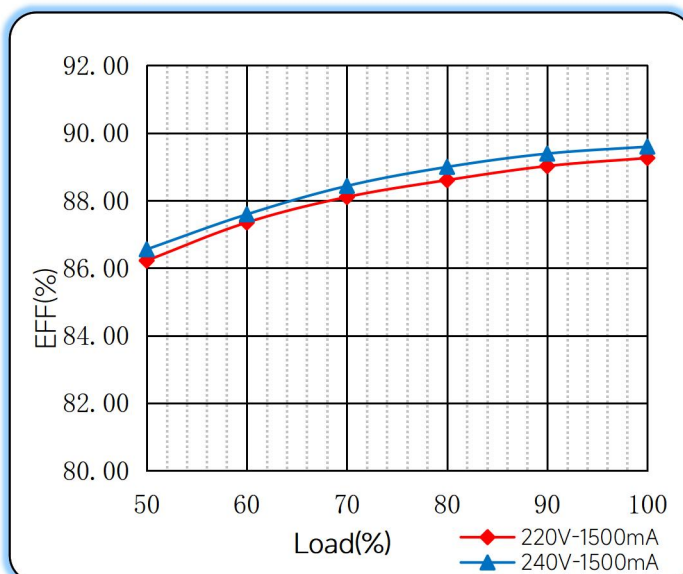
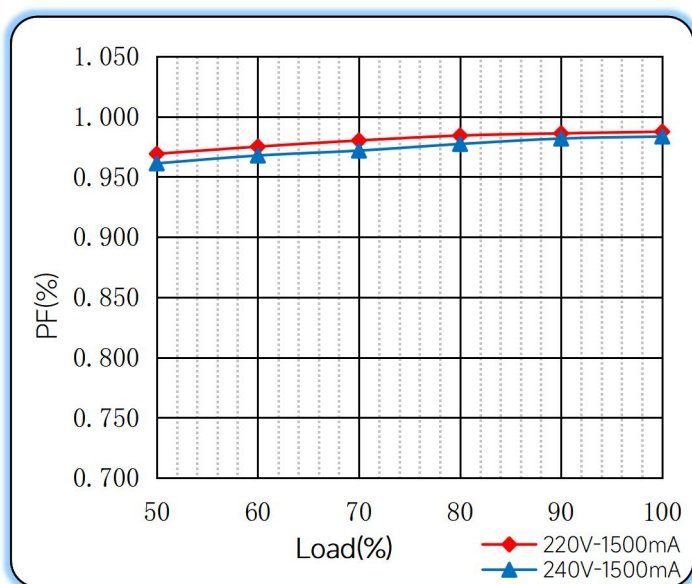
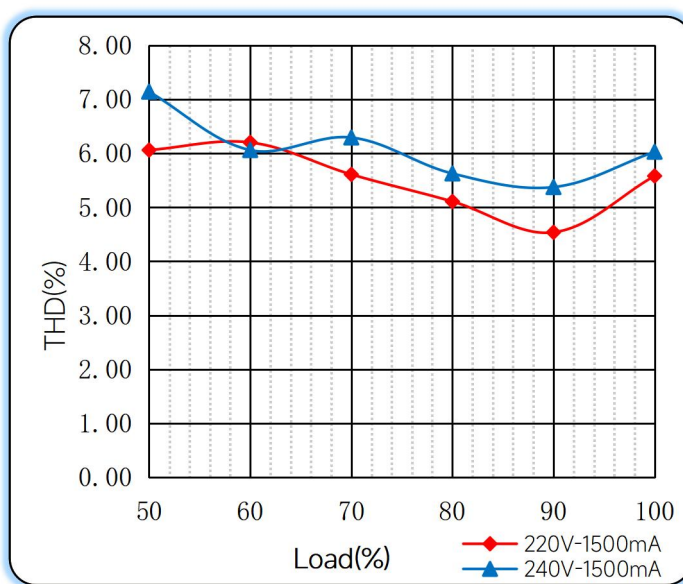
◆ 2D diagram



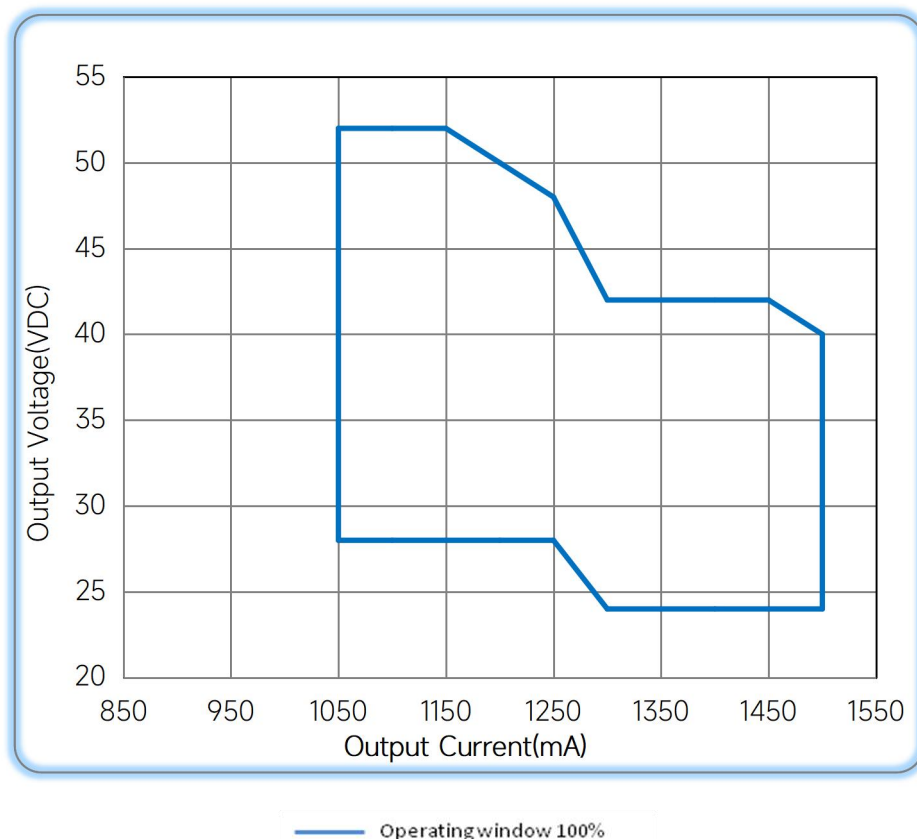
◆ Wiring & Connections

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-60-1500 LI, I_o=1500mA

Lifetime vs. Temperature Curve

Efficiency vs. Load

Power Factor Characteristics

THD vs. Load


◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/10/12
Frequency(Hz)	0/50/60Hz	50/60Hz	B	2023/05/23

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Manual