

## 60W LED Driver Constant current

MS-60-XXX N-SELV RX1



■ Approve



### ■ Features

- Class I, Built-in
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor >0.95
- Efficiency 92%
- Non-Isolated design
- Nominal life-time up to 50000h
- 5 years warranty

### ■ Applications(Typ.)

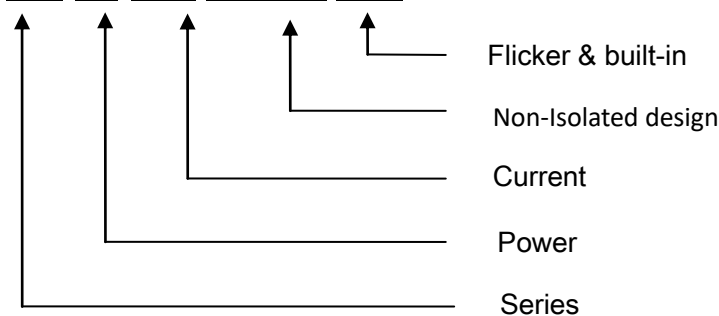
- Linear light

### ■ Description

MS-60-XXX N-SELV RX1 is a non-Isolated 60W constant current LED driver that operates from 176-264Vac input with 300-350mA output current. With it's compact dimensions from 220 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-60-350 N-SELV RX1



## 60W LED Driver Constant current

MS-60-XXX N-SELV RX1

### ■ Specification

Input	Rated input voltage	220-240Vac	
	Range of input voltage	176-264Vac	
	Frequency(Hz)	50/60 Hz	
	Power Factor	> 0.95@Full Load,230VAC	
	Input Current max@Full Load,176VAC	0.45A MAX.	
	Start-up time	< 0.5S	
	Unload Power Consumption	≤0.5W	
	Inrush Current	30A Max./50μs@230V, Full Load , 50%Ipk-50%Ipk	
	THD	< 20%@Full Load,230VAC	
	Leakage Current	< 0.7mA(240VAC)	
Output	Constant Current Max. *Note.3	300mA	350mA
	Unload voltage Max. (VDC)	370VDC	340VDC
	Voltage Range(VDC)	105-210VDC	90-180VDC
	Rated power	63W Max.	63W Max.
	Current Accuracy	±7%@220-240Vac	
	Voltage Regulation	±5% @Full Load, 220-240Vac	
	Load Regulation	±5%@220-240Vac	
	Hold-up Time	1s max.@Full Load	
	Ripple& Noise *Note.2	≤±30% @Full Load,230VAC	
	Efficiency(Typ.)	92%	
Protection	Over Load Protection	103-120% Protection type: Auto Resume	
	Over Voltage Protection	> 250VDC Protection type: Auto Resume	> 200VDC
	Short circuit Protection	Protection type: Auto Resume	
Environment	Operating Temperature	-20°C...+50°C	
	tc	75°C	
	Storage Temperature	-40°C...+60°C	
	Life time	30,000H,@tc=75°C,230Vac 50,000H,@tc=65°C,230Vac	
	Humidity	20%-90%RH	
Others	Dimension	220X30X21(LXWXH)mm	
Safety & EMC	Safety standards	EN 61347-1; EN61347-2-13;	
	Withstand voltage	Input-FG : 1500V/5mA/1min	
	Isolation resistance	Input-FG : ≥2MΩ@500VDC	
	EMI	EN55015; EN61000-3-2 Class C; EN61000-3-3	
	EMS	EN 61547; EN 61000-4-2; EN 61000-4-5 —L-N: 1KV; L/N-PE 2KV	
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.Output current can be from 300mA to 350mA and increasing in multiples of 50mA. Please see Model list below and contact EAGLERISE for details.		

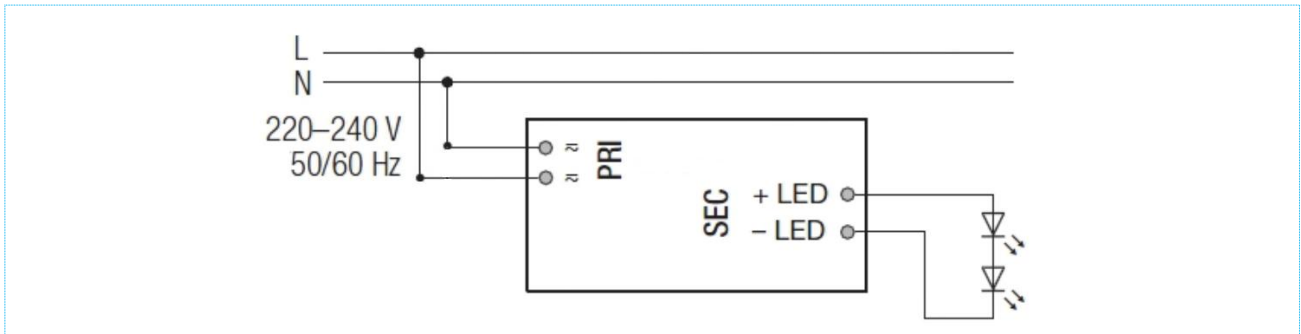
## 60W LED Driver Constant current

MS-60-XXX N-SELV RX1

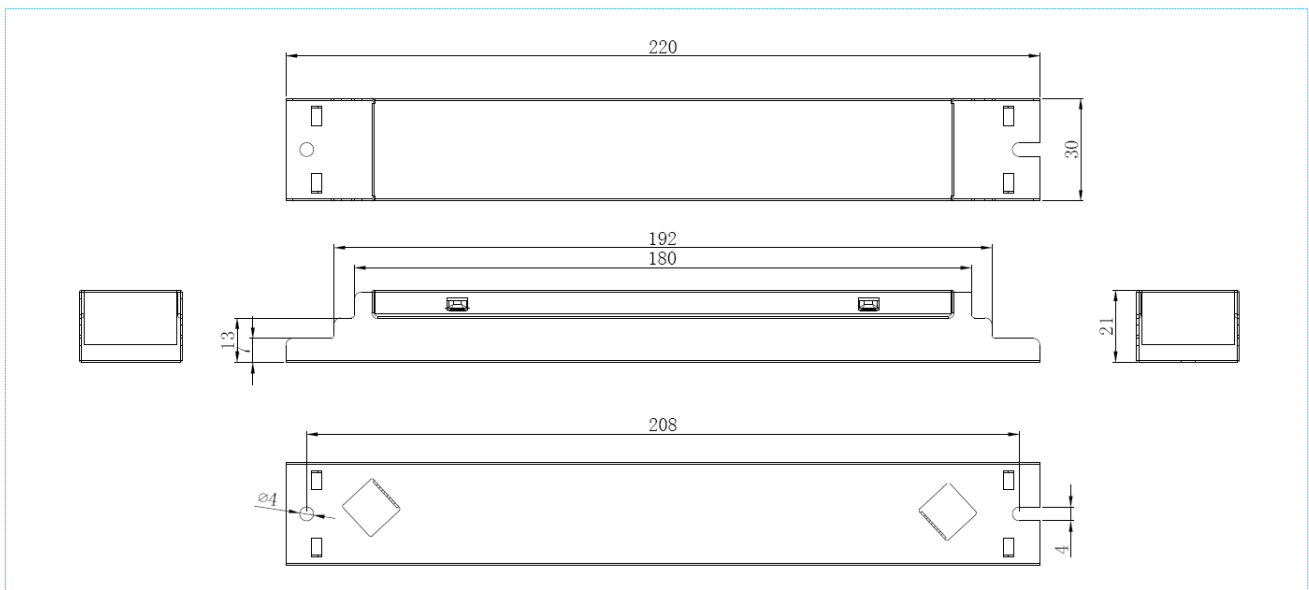
### Model list

No	Model number	Input			Output			Max.Prated(W)
		Voltage (VAC)	Max.Current (A)	Frequency (Hz)	Constant current (mA)	Normal working voltage (VDC)	No load working voltage (VDC)	
1	MS-60-300 N-SELV RX1	220-240	0.45	50/60	300	105-210	370	63
2	MS-60-350 N-SELV RX1	220-240	0.45	50/60	350	90-180	340	63

### Wiring diagram



### 2D diagram

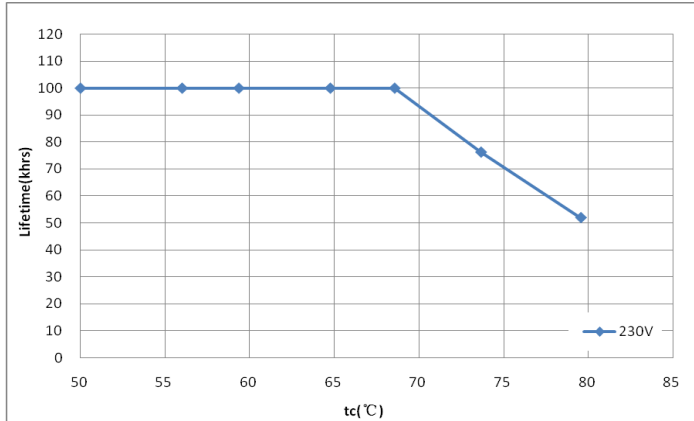


## 60W LED Driver Constant current

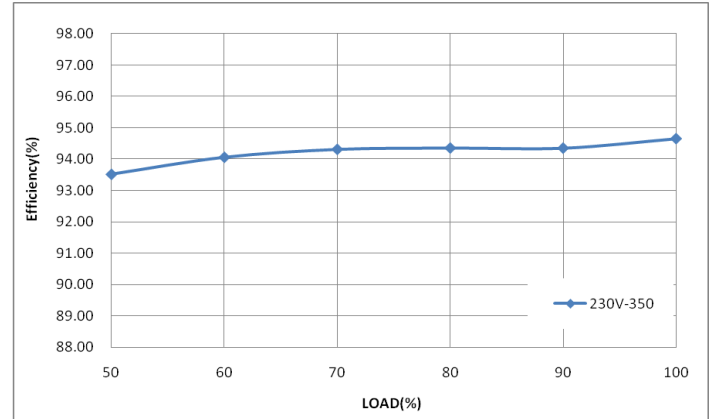
MS-60-XXX N-SELV RX1

### ■Curve for MS-60-350 N-SELV RX1

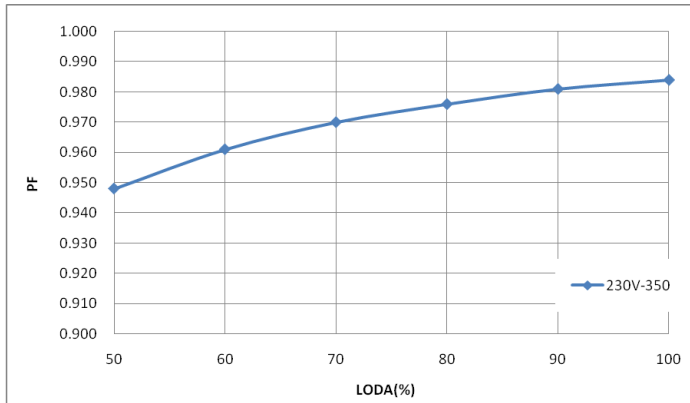
#### Lifetime vs. Ambient Temperature Curve



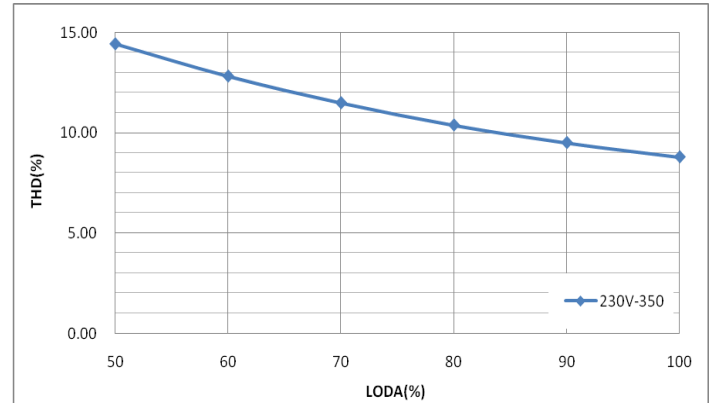
#### Efficiency vs. Load



#### Power Factor Characteristics



#### THD vs. Load



### ■Operating window

