

20W LED Driver Constant current

MS-20-XXX N-SELV LX



■ Approve



■ Features

- Class I, Built-in
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor >0.95 @Full Load,230VAC
- Efficiency $\geq 85\%$
- Non-Isolated design
- Nominal life-time up to 50000h
- 5 years warranty

■ Applications(Typ.)

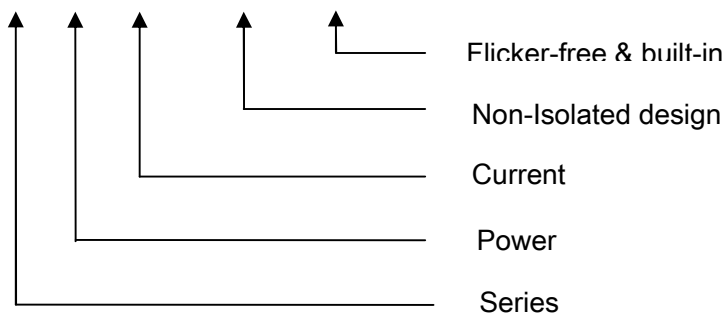
- Linear light

■ Description

MS-20-XXX N-SELV LX is a non-Isolated 20W constant current LED driver that operates from 176-264Vac input with 300 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-20-350 N-SELV LX



20W LED Driver Constant current

MS-20-XXX N-SELV LX

■ 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	0.15A MAX. @Full Load,176Vac	
	Start-up time	< 0.5S	
	Unload Power Consumption	≤0.5W	
	Inrush Current	10A 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
	Uout Max. (VDC)	260VDC	250VDC
	Voltage Range(VDC)	34-68VDC	25-54VDC
	Rated power	20.4W Max.	18.9W 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	≤±4%	
	Efficiency(Typ.)	≥85%	
Protection	Over Load Protection	103-120%	
		Protection type: Auto Resume	
	Over Voltage Protection	> 80VDC	> 65VDC
		Protection type: Auto Resume	
	Short circuit Protection	Protection type: Auto Resume	
Environment	Operating Temperature	-20°C...+50°C	
	tc	70°C	
	Storage Temperature	-40°C...+60°C	
	Life time	> 30,000H,@tc=70°C,230Vac > 50,000H,@tc=65°C,230Vac	
	Humidity	20%-90%RH	
Others	Dimension	190X30X21(LXWXH)mm	
Safety & EMC	Safety standards	EN 61347-1; EN61347-2-13; EN62384; EN62493	
	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.		

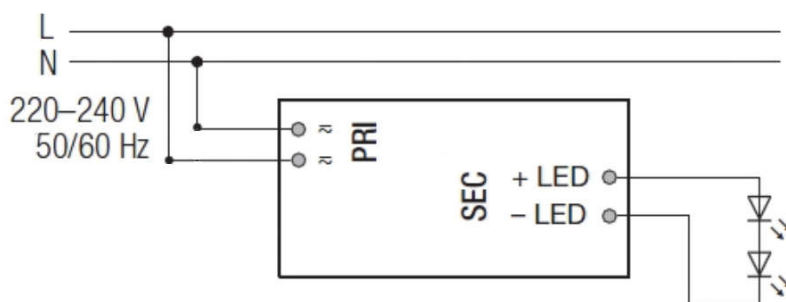
20W LED Driver Constant current

MS-20-XXX N-SELV LX

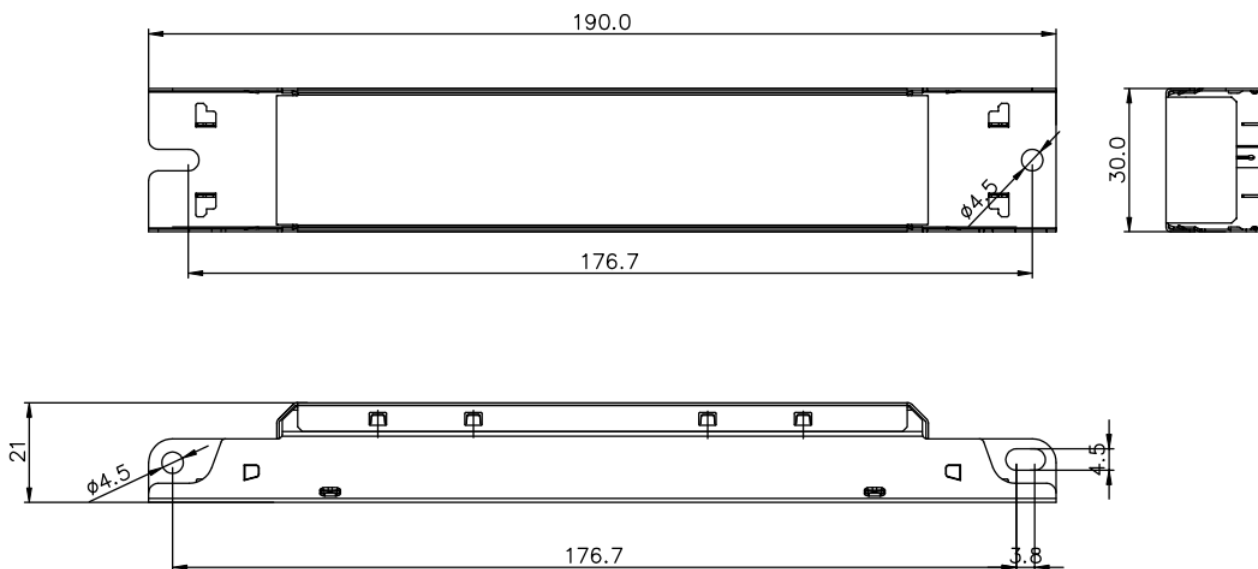
■Model list

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-20-300 N-SELV LX	220-240	0.15	50/60	300	34-68	260	20.4
2	MS-20-350 N-SELV LX	220-240	0.15	50/60	350	25-54	250	18.9

■Wiring diagram



■2D diagram



20W LED Driver Constant current

MS-20-XXX N-SELV LX

■ Operating window

