

38W Constant Current -FDS Series

FDS-38-900 LD1



■Approve

SELV CE

Cover color : White , Gray or Black

■Features

- Class II, SELV, Built-in
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor >0.9
- Efficiency $\geq 86\%$
- Adjustable Output Current with dip-switch
- 5 years warranty

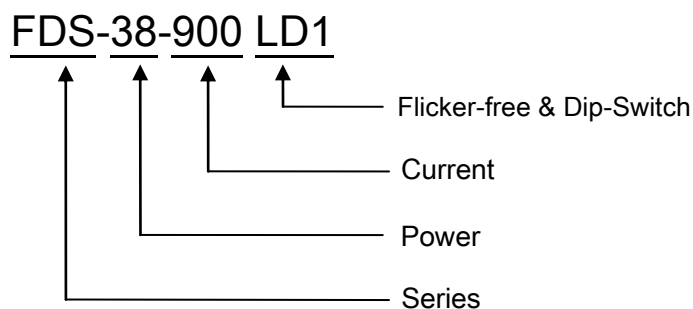
■Typical Applications

- Track Spot light

■Description

FDS-38-900 LD1 is a 38W constant current LED driver that operates from 176-264Vac input with 750 to 900mA output current and a forward voltage range from 20 to 42Vdc. The output current is selectable by DIP Switch. With it's compact dimensions from 198 x 44.5 x 30.6mm it is easy to integrate in track spot light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

■Model code



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■Specification

Input	Rated input voltage	220-240VAC
	Range of input voltage	176-264VAC
	DC voltage range	176-280V
	Frequency(Hz)	0/50/60 Hz
	Power Factor	> 0.9@220-240VAC
	Input Current max	0.28A MAX. @Full Load,176VAC
	Start-up time	< 0.5S
	Unload Power Consumption	≤0.5W
	Inrush Current	30A Max.
	THD	10% Typ.
	Leakage Current	< 0.5mA(240VAC)
Output	Constant Current Max.	900mA
	Unload voltage Max.	50 VDC
	Voltage Range(VDC)	20-42VDC
	Rated power	37.8W Max.
	Current Accuracy	±5%@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	≤±3%@Full Load,240VAC
	Efficiency(Typ.)	≥86%
Protection	Over Load Protection	103-120% Protection type: Auto Resume
	Over Voltage Protection	> 50VDC Protection type: Auto Resume
	Short circuit Protection	Protection type: Auto Resume
Environment	Operating Temperature	-20°C...+35°C
	tc	80°C
	Storage Temperature	-20°C...+60°C
	Life time	> 50,000h@ta=35°C
Others	Humidity	10%-90%RH
	Dimension	198X44.5X30.6(LXWXH)mm
Safety & EMC	Safety standards	EN 61347-1; EN61347-2-13; EN62384;
	Withstand voltage	Input-Output : 3750V/5mA/1min
	Isolation resistance	Input-Output : ≥4MΩ@500VDC
	EMI	EN55015; EN61000-3-2 Class C; EN61000-3-3
	EMS	EN 61547; EN 61000-4-2; EN 61000-4-5 —L-N 2KV, L/N-PE 4KV
Note	1.All parameters NOT specially mentioned are measured at 240VAC 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.	

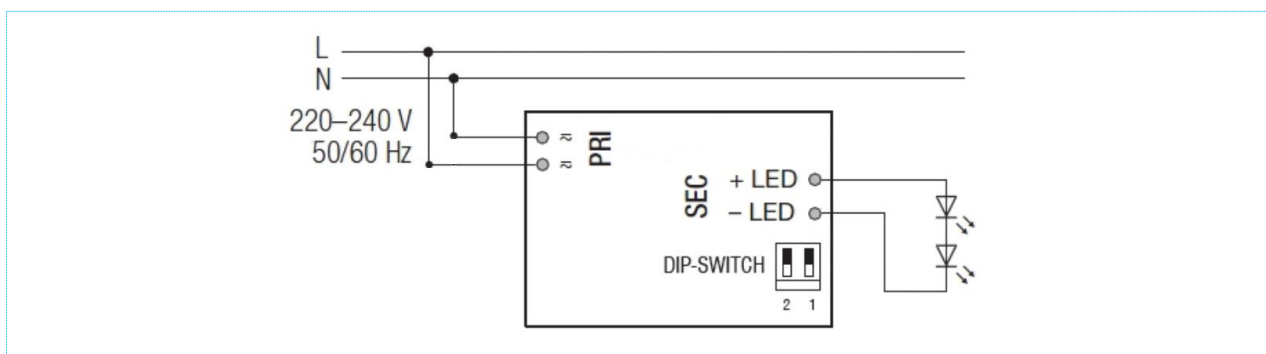
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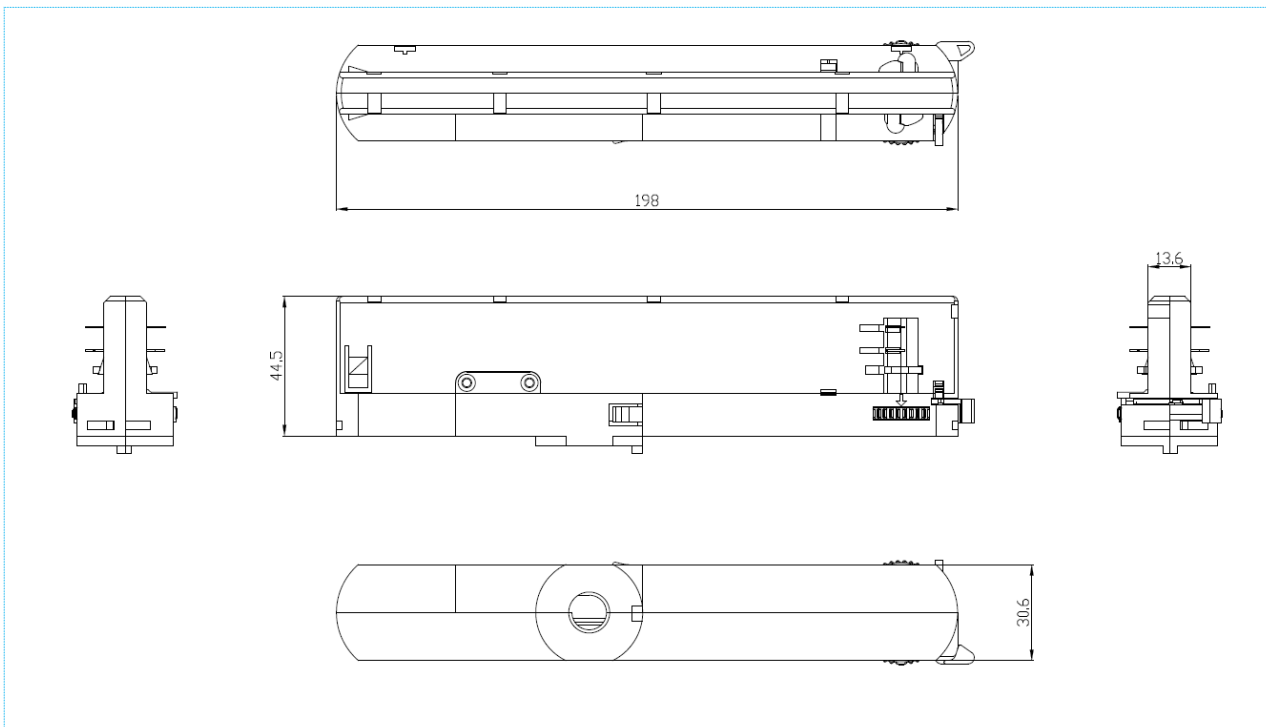
■Adjustable Output Current with dip-switch

Vo	Po	Io	1	2
20-42VDC	31.5W	750mA	--	--
20-42VDC	33.6W	800mA	ON	--
20-42VDC	35.7W	850mA	--	ON
20-42VDC	37.8W	900mA	ON	ON

■Wiring diagram



■2D diagram



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■Operating window

