

32W Constant Current -FDS power supply



■ Approve

CE SELV

Features

- Class II, SELV, built-in
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor : 0.9C
- Efficiency 87%
- Adjustable Output Current with dip-switch
- 5 years warranty
- IP20

Applications

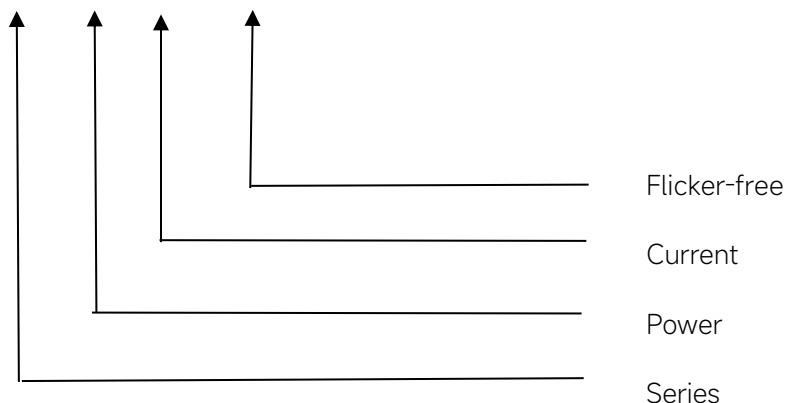
- Track Spot light

◆ Description

FDS-32-800 LD1-3 Wires is a 32W constant current LED driver that operates from 198-264Vac input with 500 to 800mA output current and a forward voltage range from 28 to 40 Vdc. The output current is adjustable by DIP Switch. With it's compact dimensions from 128 x 36.5 x 26 mm 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

FDS-32-800 LD1-3 Wires



◆ Specification

Output	Constant Current	500mA	600mA	700mA	800mA
	Voltage Range	28-40VDC			
	Unload voltage Max.	55VDC			
	Current Accuracy	±5%			
	Output HF current ripple(≥1KHz)	±3%			
	Output LF current ripple(≤120Hz)	±3%			
	SVM	≤0.4			
	P _{st}	≤1			
	Efficiency(Typ.)	87%			
Input	Rated input voltage	220-240VAC			
	Range of input voltage	198-264VAC			
	Rated input voltage(DC)	198-280VDC			
	Frequency(Hz)	0/50/60 Hz			
	Displacement factor	≥0.7			
	Power Factor	>0.9C			
	Input Current max	0.22A MAX			
	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	> 55VDC			
		YES/Auto Resume			
	Short circuit Protection	YES/Auto Resume			
Environment	Operating Temperature	-20°C~~+35°C			
	Humidity	20%-90%RH			
	Tc	70°C			
	Storage Temperature	-20°C~~+60°C			
	Life time	> 30000h@Tc=70°C			
Surface	Dimension	128 x 36.5 x 26 mm			
standards	EN 61347-1; EN61347-2-13; EN62384;				
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.				

◆ Parameter

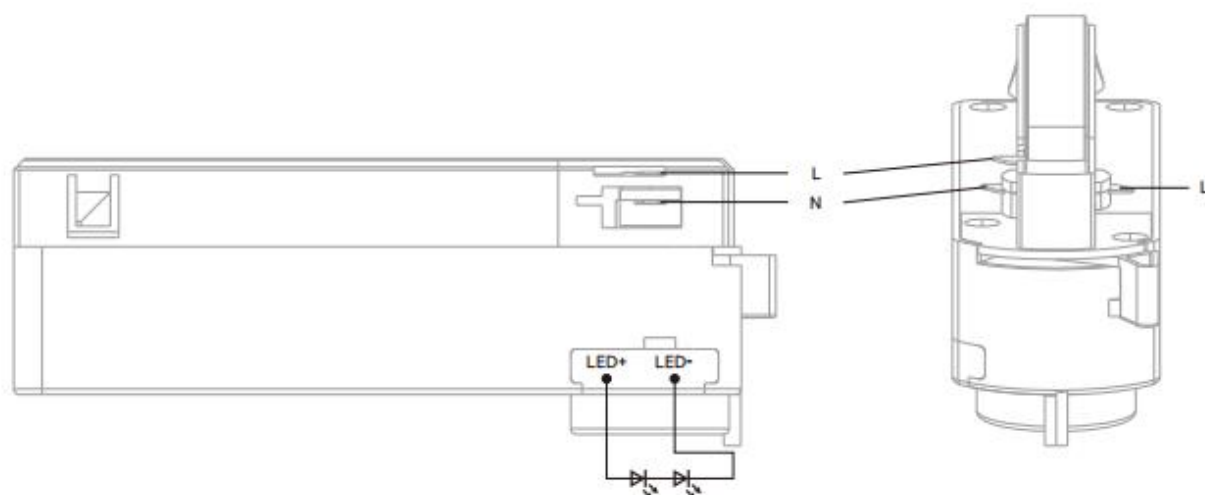
Number	Output				Switch position	
	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2
1	500mA	28-40VDC	55VDC	20W	--	--
2	600mA			24W	--	ON
3	700mA			28W	ON	--
*4	800mA			32W	ON	ON

* Factory default

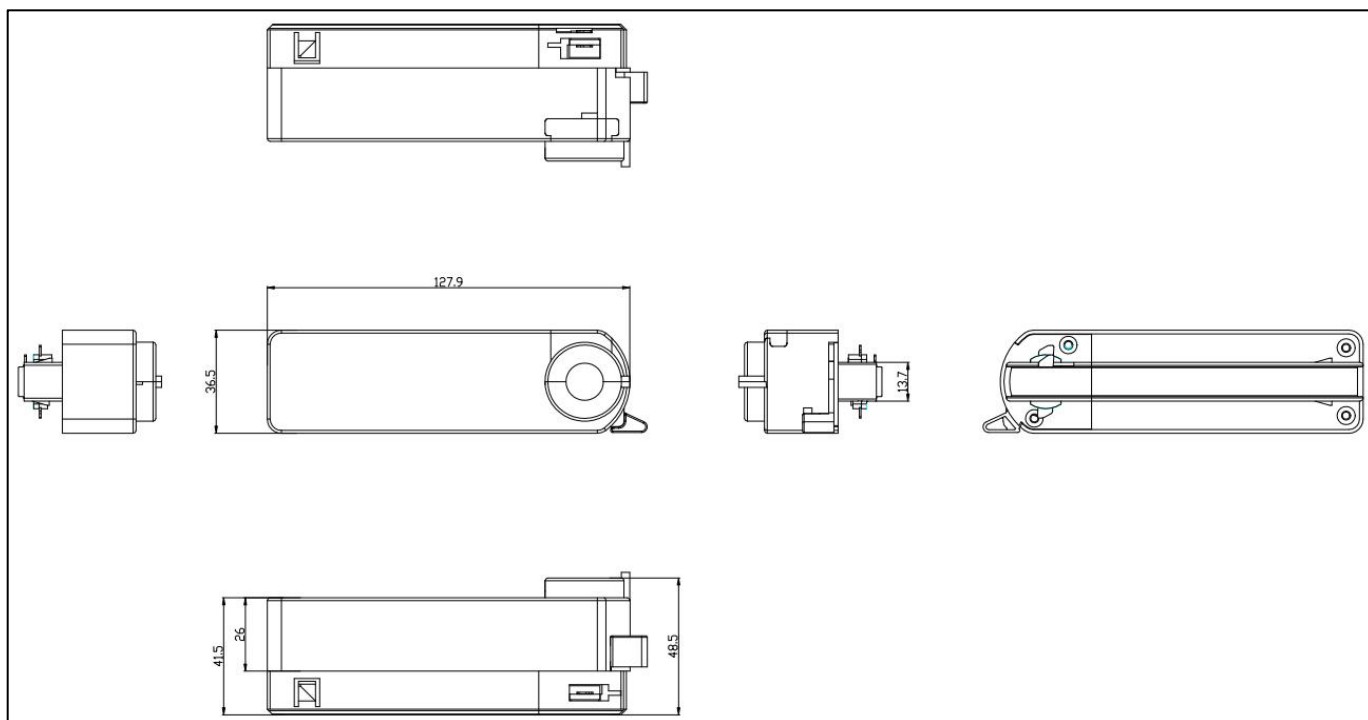
◆ Circuit Breaker

I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
2.12A	31.9μs	66pcs	106pcs	133pcs	66pcs	106pcs	133pcs

◆ Wiring diagram

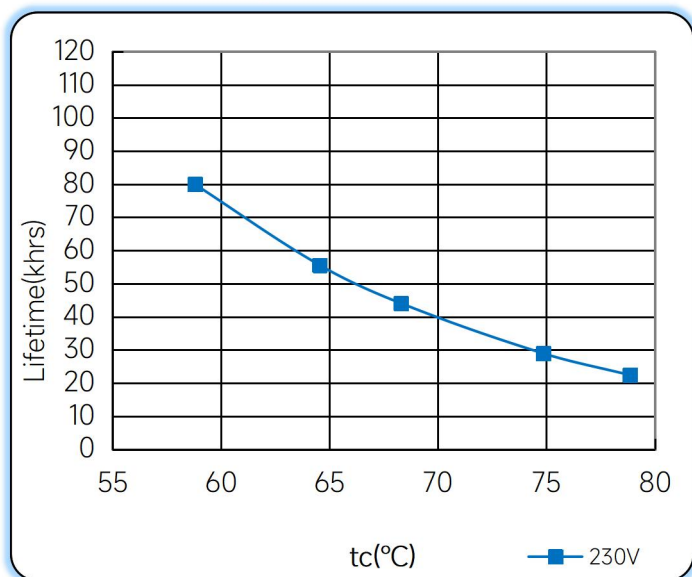


◆ **2D diagram**

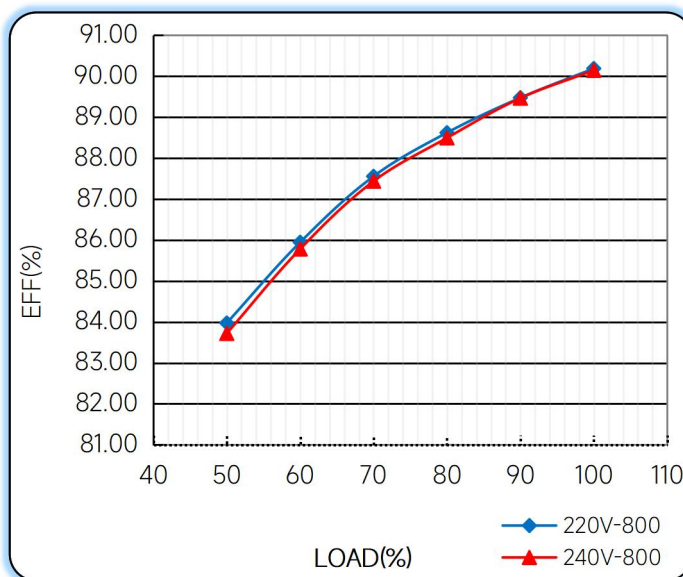


◆ Curve for FDS-32-800 LD1-3 Wires, $I_o=800\text{mA}$

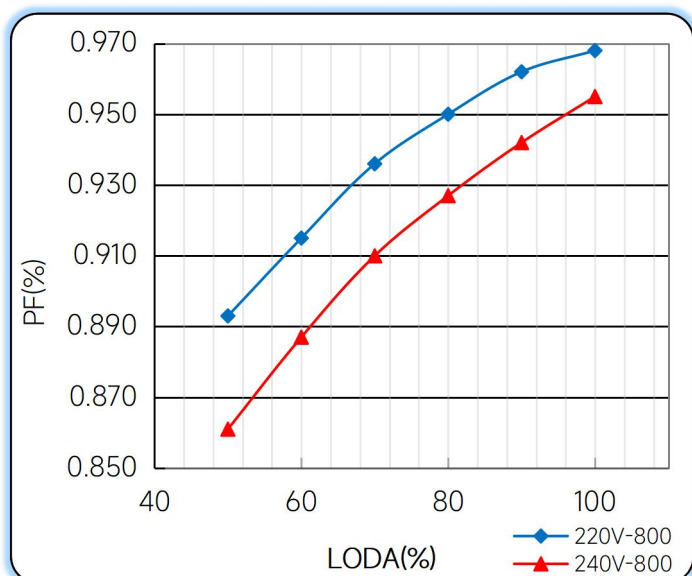
Lifetime vs. Temperature Curve



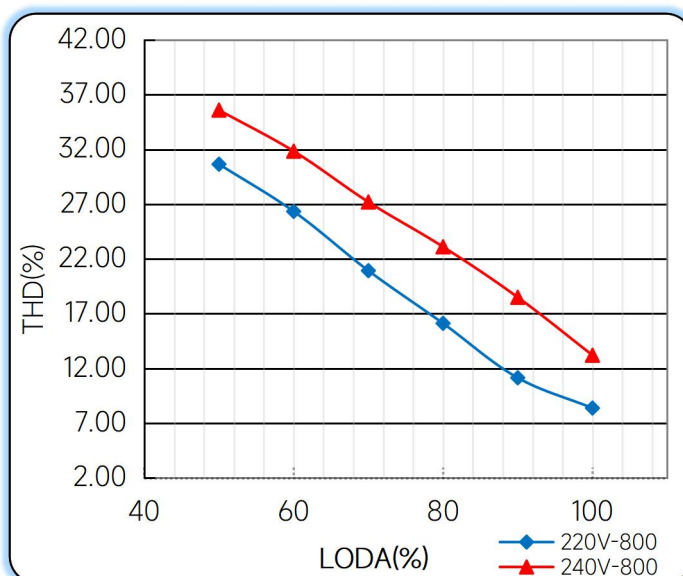
Efficiency vs. Load



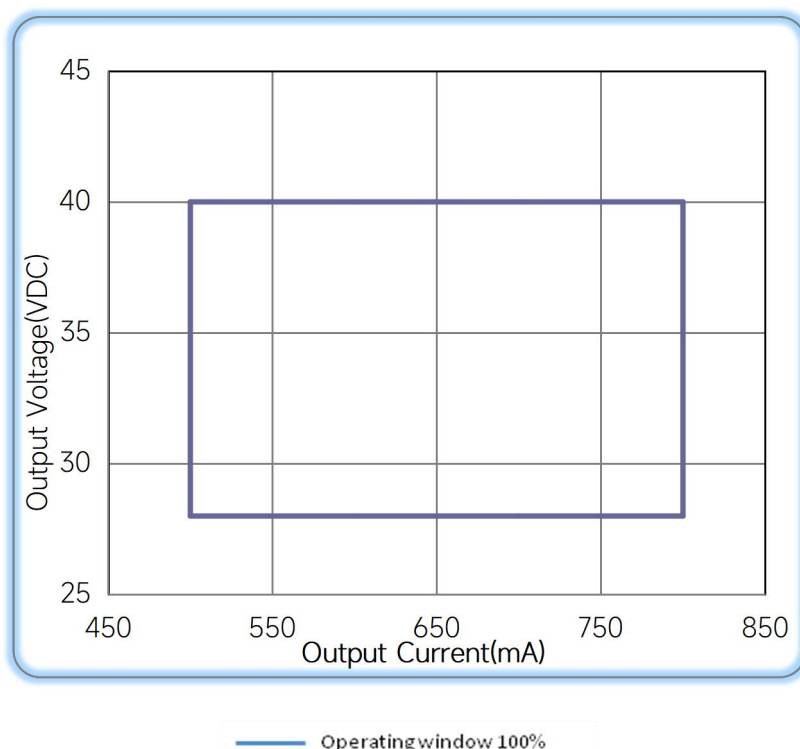
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

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

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Manual