

32W Constant Current -FDS power supply



■ Approve



Features

- Class II,SELV,built-in
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor : 0.9C
- Efficiency 88%
- Adjustable Output Current with dip-switch
- 5 years warranty

Applications

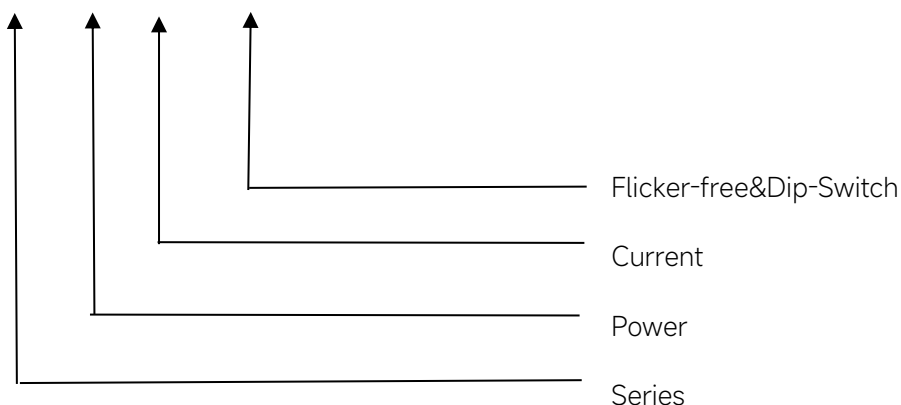
- Track Spot light

◆ Description

FDS-32-850 LD1-3 Wires is a 32W constant current LED driver that operates from 198-264Vac input with 700 to 850mA 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-32-850 LD1-3 Wires



◆ Specification

	Constant Current	700mA	750mA	800mA	850mA
Output	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.)	88%			
	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		≥0.9			
Power Factor		>0.9C			
Input Current max		0.22A			
Start-up time		< 0.5S			
No Load Power		≤0.5W			
THD (Typ.)		<20%			
Protection	Over Load Protection	103-120% YES/Auto Resume			
	Over Voltage Protection	> 55VDC YES/Auto Resume			
	Short circuit Protection	YES/Auto Resume			
	Over Temperature protection	YES/Auto Resume			
Environment	Operating Temperature	-20°C~+35°C			
	Humidity	20%-90%RH			
	T _c	75°C			
	Storage Temperature	-20°C~+60°C			
	Life time	≥30000h@T _c =75°C			
Surface standards	Dimension	128x 36.5 x 26 mm			
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

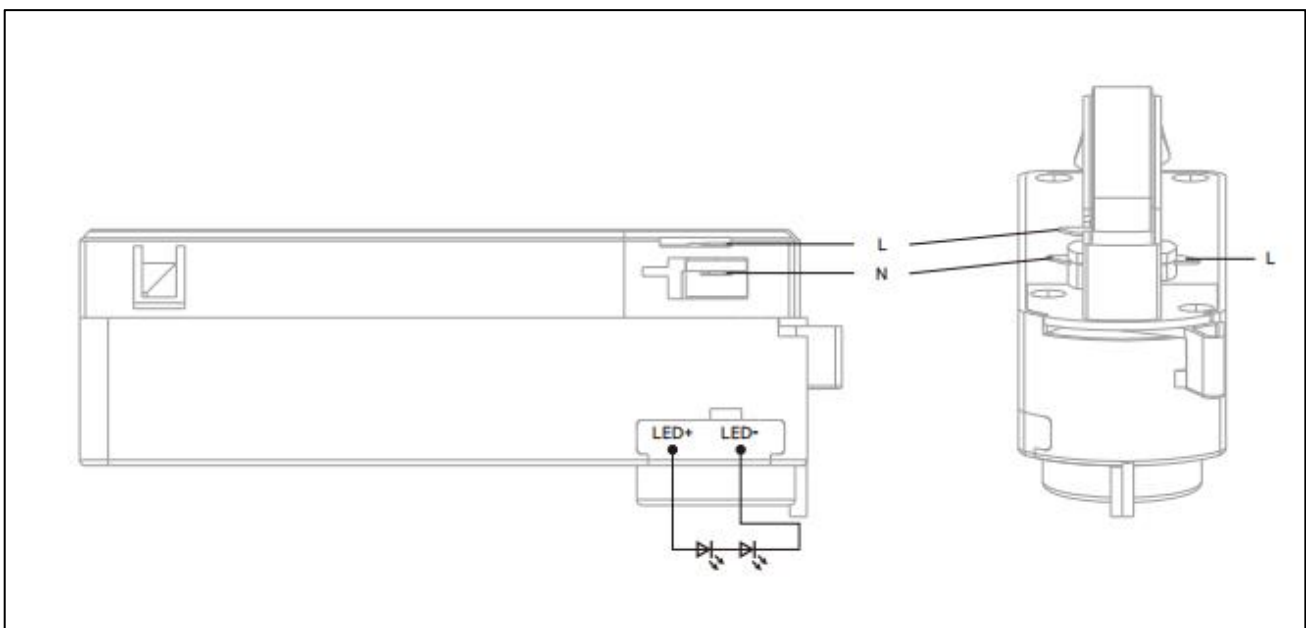
Number	Output				Switch position	
	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2
1	700mA	28-40VDC	55	28	--	--
2	750mA			30	ON	--
3	800mA			32	--	ON
*4	850mA			34	ON	ON

* 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

Stock code : 002922

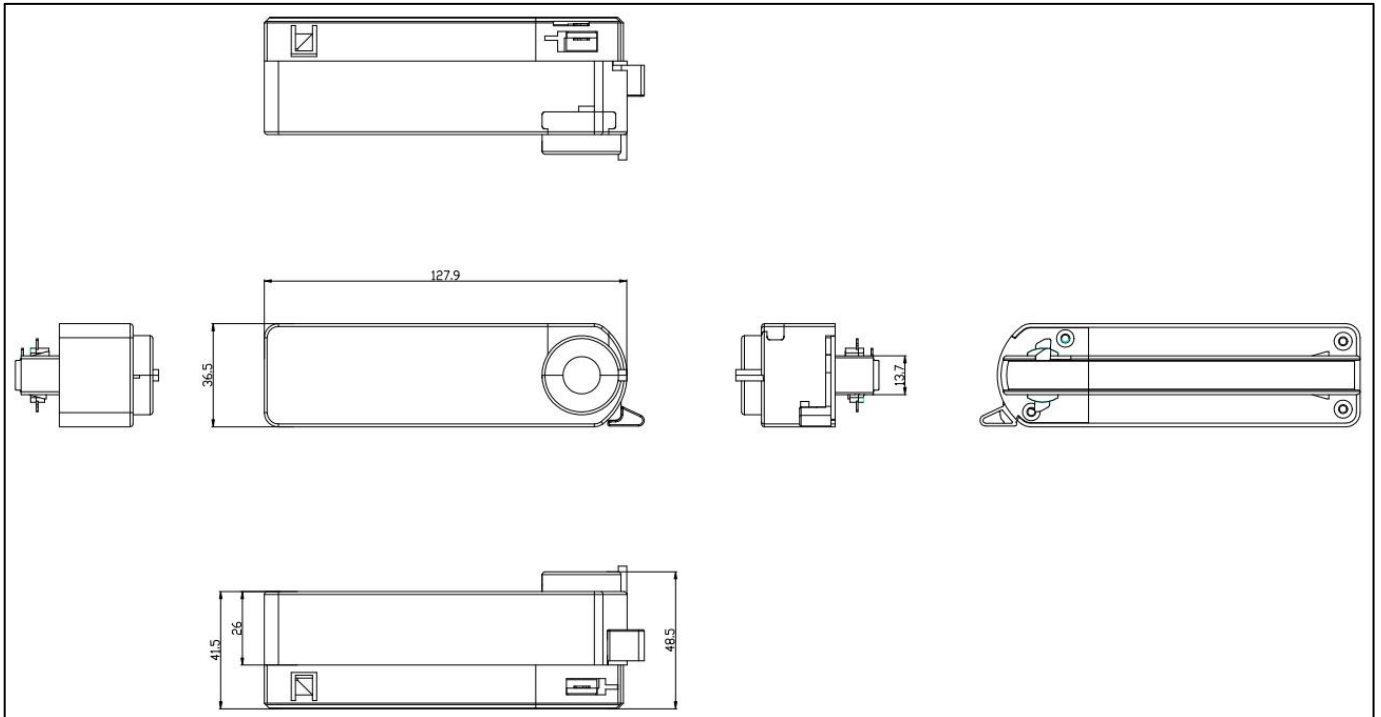
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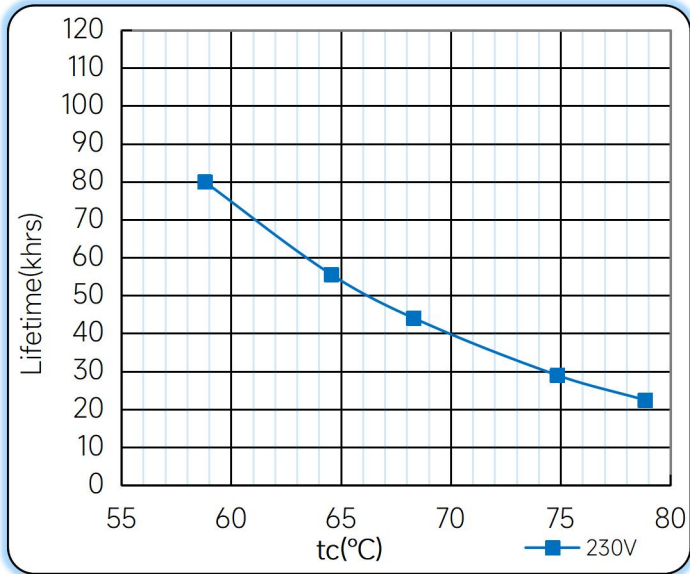
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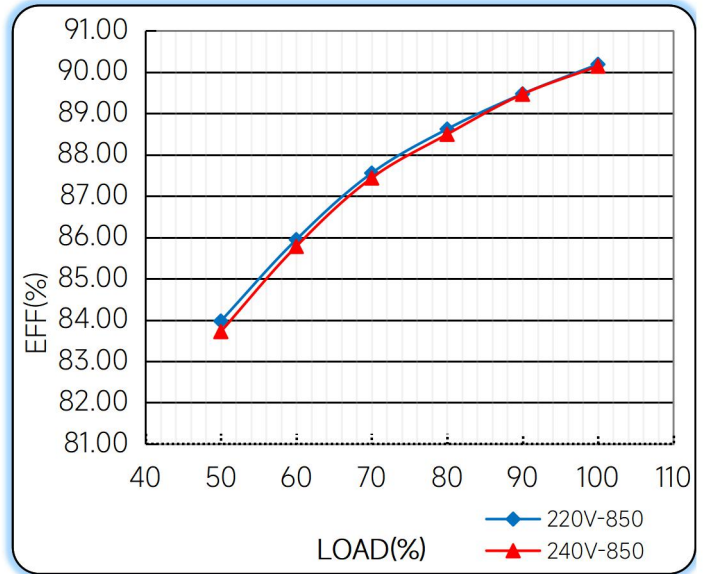


◆ Curve for FDS-32-850 LD1-3 Wires, $I_o=850mA$

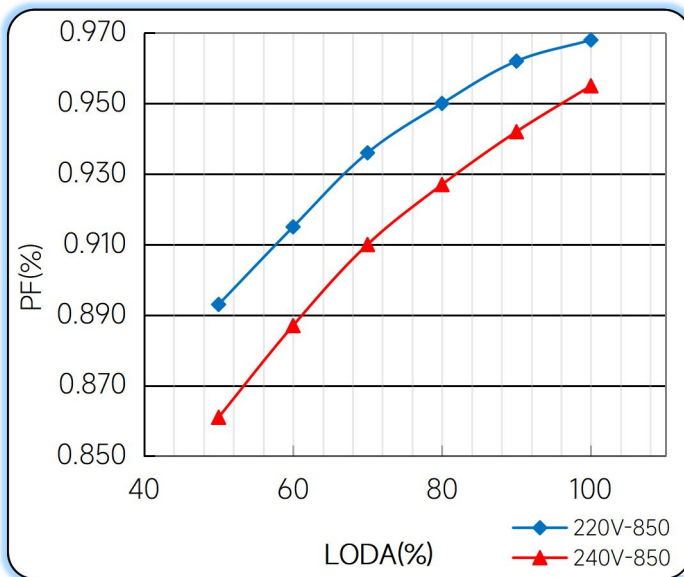
Lifetime vs. Temperature Curve



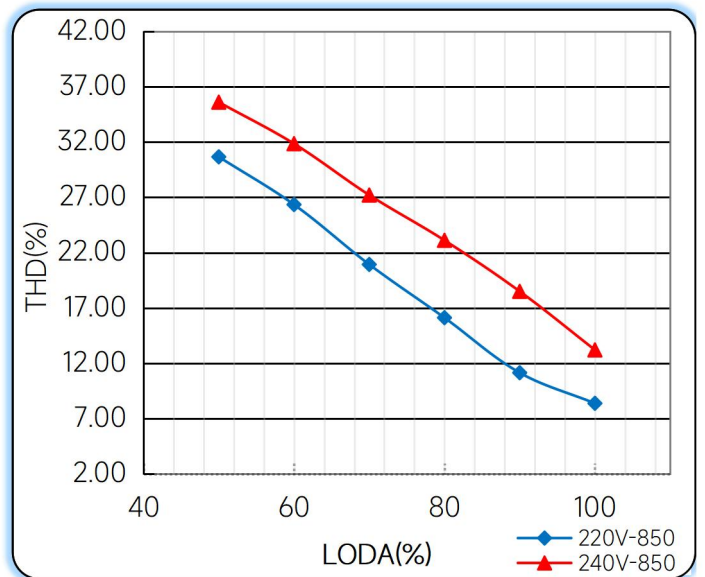
Efficiency vs. Load



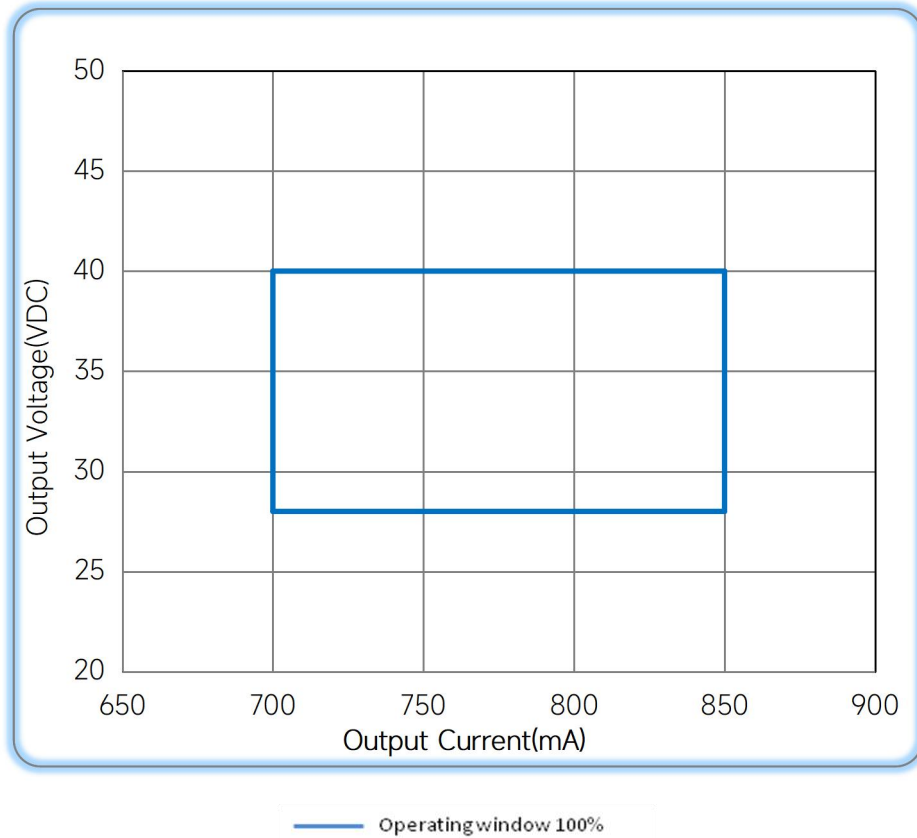
Power Factor Characteristics



THD vs. Load



◆ **Operating window**



◆ **Revision Updates**

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

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