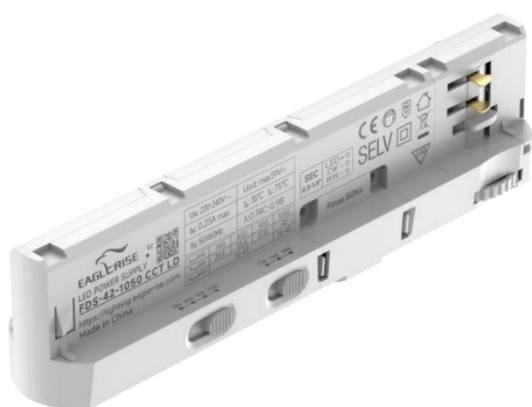


42W Constant Current in-track driver



■ Approve

CECB  SELV

Features

- For luminaires of protection Class II, SELV
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OTP
- Power Factor: 0.95
- Efficiency: 89%
- Adjustable Output Current with dip-switch
- Track Adapter Invisible
- 5 years warranty

Applications

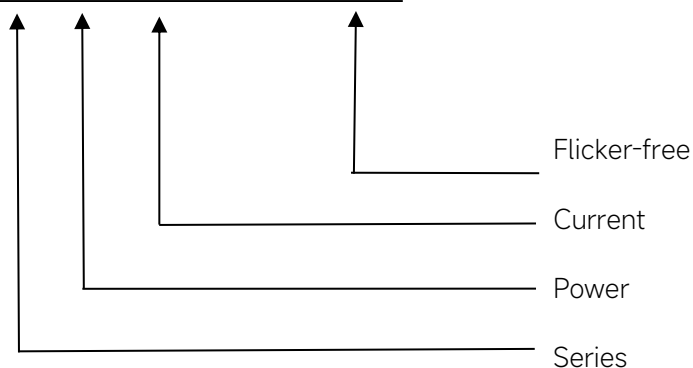
- Track Spot light

◆ Description

FDS-42-1050 CCT LD is a 42W constant current LED driver that operates from 198-264Vac input with 700 to 1050mA output current and a forward voltage range from 10 to 42Vdc. The output current is adjustable by DIP Switch. With its compact dimensions from 178x31.1x42.2mm. 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-42-1050 CCT LD



◆ Specification

Output	Constant Current	800mA	900mA	1050mA
	Voltage Range(VDC)	10-42VDC	10-40VDC	
	Unload voltage Max.	59VDC		
	Current Accuracy	±6%		
	Output HF current ripple(≥1KHz)	±5%		
	Output LF current ripple(≤120Hz)	±3%		
	SVM	≤0.4		
	P _{st}	≤1		
	Efficiency(Typ.)	89% @Full Load,230VAC		
Input	Rated input voltage	220-240V		
	Range of input voltage	198-264VAC		
	Maximum voltage	300VAC@1 h maximum,unit might not operate in this abnormal condition		
	Frequency(Hz)	50/60 Hz		
	Displacement factor	≥0.9		
	Power Factor	0.95@Full Load,230VAC		
	Input Current max	0.23A MAX. @Full Load,230VAC		
	Start-up time	<0.5S		
	No Load Power	≤0.5W		
	THD (Typ.)	<10% @Full Load,230VAC		
Protection	Over Load Protection	103-130%		
		YES/Auto Resume		
	Short circuit Protection	YES/Auto Resume		
capability	Surge capability (L-N)	1KV		
	Surge capability (L/N-Ground)	NA		
Environment	Operating Temperature	-25°C~+35°C		
	Humidity	10%-90%RH		
	T _c	75°C		
	Storage Temperature	-25°C...+75°C		
	Life time	>50000h@T _c =75°C		
	Noise	≤25dB(A)@20cm		
Surface	Dimension	178x31.1x42.2mm(LXWXH)mm		
	material	PC		
Standards	Safety	IEC61347- 1, IEC61347-2- 13 ;EN61347- 1, EN61347-2- 13 ;EN62384		
	EMC	EN55015, EN61000-3-2, EN61000-3-3, EN61547;EN61000-4-5		
	Energy Efficiency	Erp2.0 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.
- 3.Switch and dimmer are not recommended to connect between this product output and luminaries.
- 4.The over-temperature protection of the product is provided by the IC.
- 5.The power supply can be briefly applied to DC.
- 6.All Eaglerise power supply are complied with EMI regulations. Since they are belong to component and will be installed inside system enclosure. When they are integrated into a system, the EMI characteristics of the system must be re-verified again.

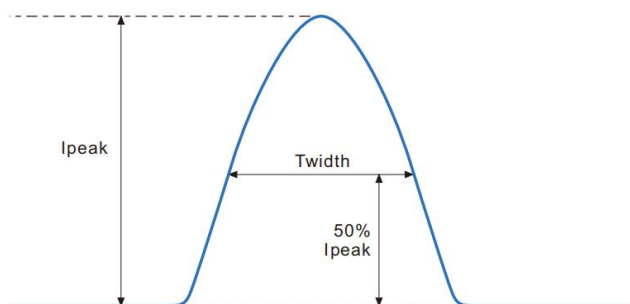
◆ Parameter

Number	Output			
	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)
1	800mA	10-42VDC	59	33.6
2	900mA	10-40VDC		36
3*	1050mA			42

* Factory default

◆ Inrush Current

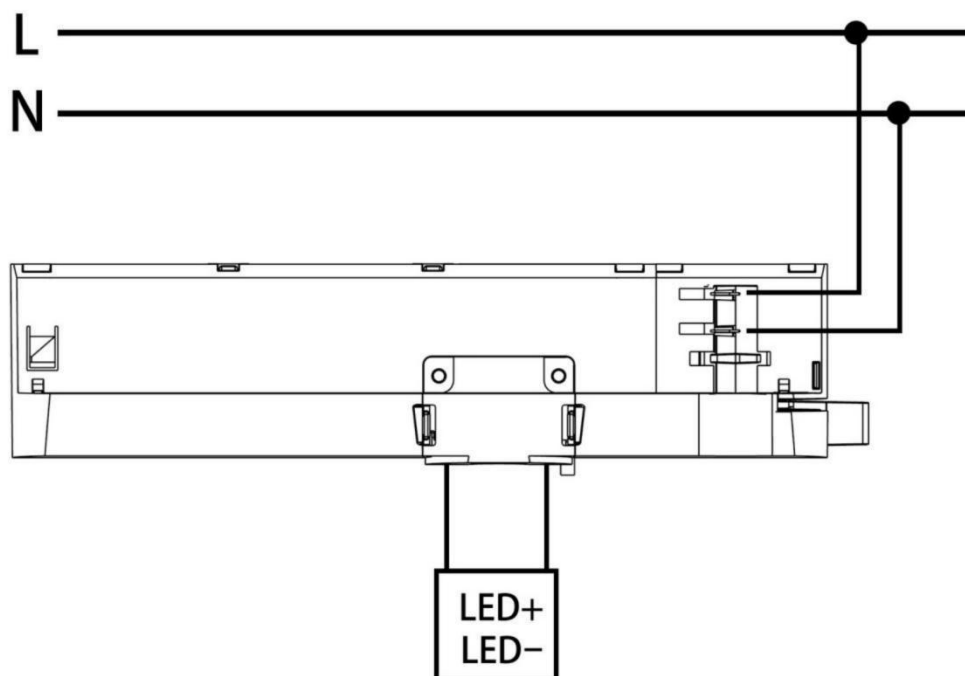
I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
9.5A	16μs	33pcs	53pcs	66pcs	53pcs	84pcs	105pcs



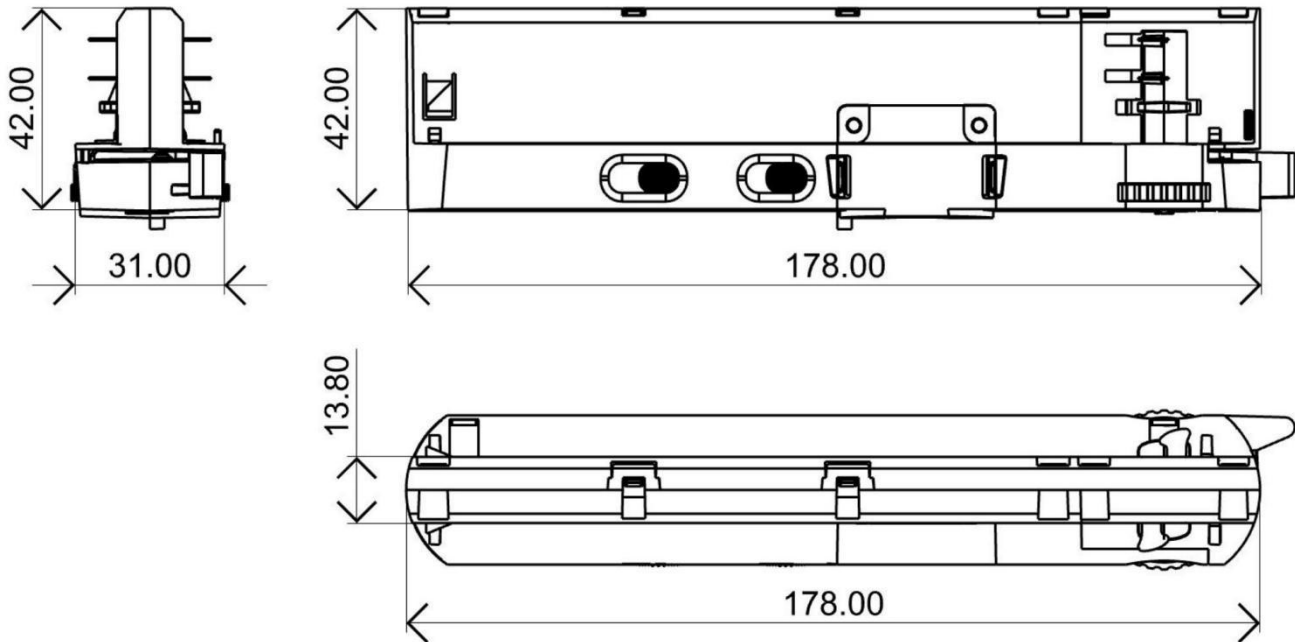
Remarks:

- 1.The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.
- 2.Different brands and models of miniature circuit breakers, the number of drives mounted will be slightly different.

◆ Wiring diagram



◆ 2D diagram



◆ Wiring & Connections

Specification item		Value (Unit)
Output	Output wire cross-section	0.5...1.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire strip length	8...9mm

◆ Packaging

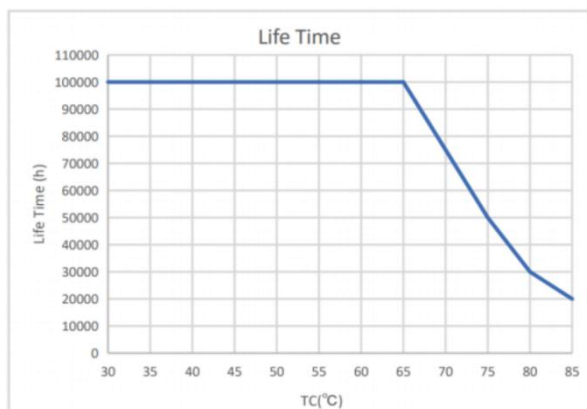
Mode	Product. Dimensions(mm)	weight/piece.	Outer carton dimension(mm)	Quantity/ carton	Net weight/ carton(Kg)	Gross weight/ carton(Kg)
FDS-42-1050 CCT LD	178*31.1*42.2mm	0.132	395*295*125mm	50	6.6	7.25

◆ Matching brand

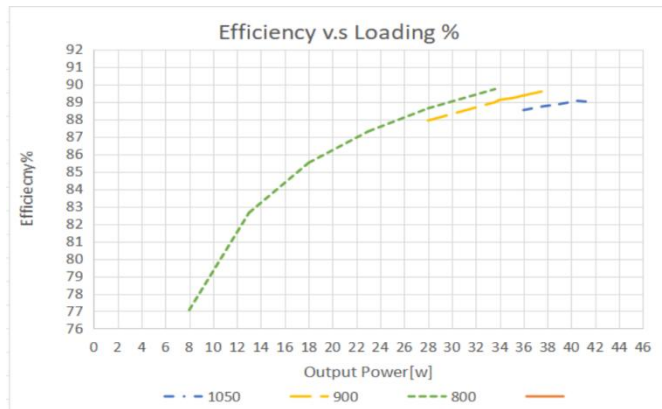
Serial number	Serial number	Serial number	Serial number
1	Global	XTSC&XTSCF6	3P
2	Stucchi	9000XX Series	3P
3	Unipro	T32B	3P
4	Eutrac	2510x	3P
5	Lvela	7501	3P
6	ERCO	ZUMTOBEL	3P

◆ Curve for FDS-42-1050 CCT LD, $I_o=1050\text{mA}$

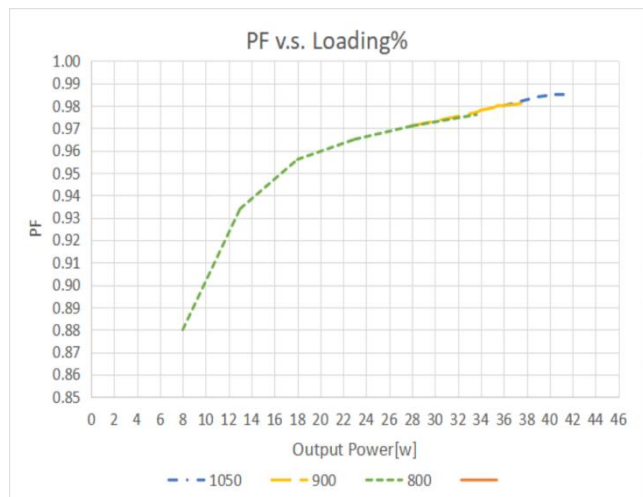
Lifetime vs. Temperature Curve



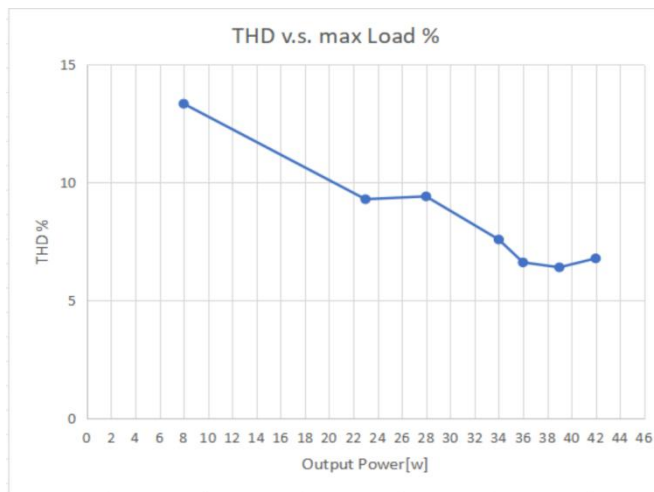
Efficiency vs. Load



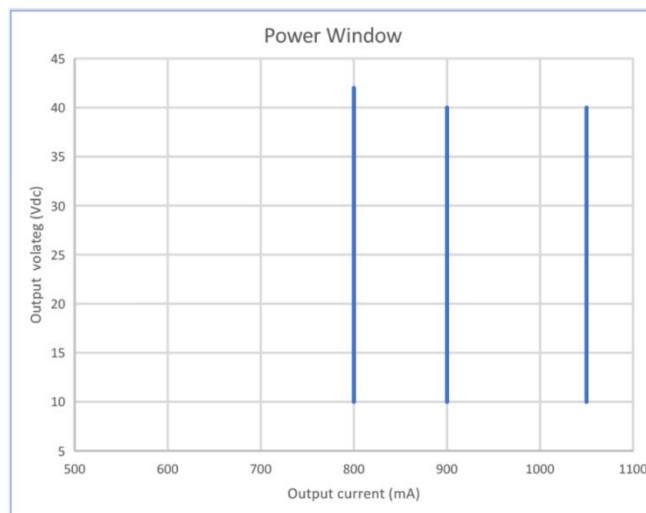
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2025/07/17

Remark: The final interpretation of the contents of the specification belongs to Eaglerise Electric & Electronic (China) Co., Ltd.

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EAGLERISE



Manual