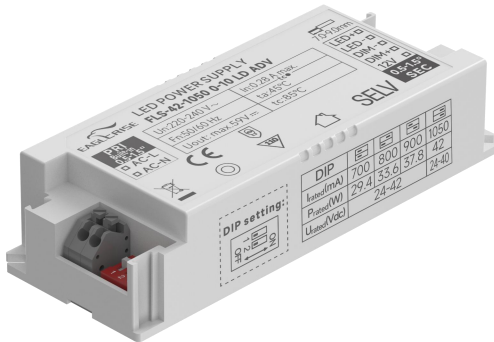


42W 0-10V+RX+PWM Dimming power supply



■ Approve



Features

- For luminaires of protection Class II, SELV, Built-in/Independent (With side caps)
- Input Voltage: 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor: 0.95(Typ.)
- Efficiency: 88%(Typ.)
- Support 0-10V,RX,PWM Dimming
- 5 years warranty

Applications

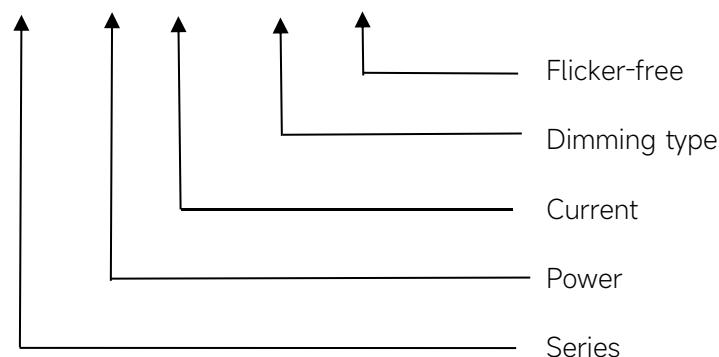
- LED panel light、Down light

◆ Description

FLS-42-1050 0-10 LD ADV 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 24 to 42Vdc. The output current is adjustable by DIP Switch. With it's dimensions from 113x43x25mm. It is easy to integrate in LED Panel and down light products. To ensure trouble-free operation, protection is provided against output short circuit ,over load, over voltage and over temperature.

◆ Model code

FLS-42-1050 0-10 LD ADV



◆ Specification

Output	Constant Current (mA)	700mA	800mA	900mA	1050mA
	Voltage Range(VDC)	24-42VDC			24-40VDC
	Unload voltage Max.(VDC)	59VDC			
	Current Accuracy	±5%			±7%
	Output LF current ripple(≤120Hz)	±3%			
	Auxiliary Output Voltage	12±1V			
	Auxiliary Output Current	200mA			
	SVM	≤0.4@Full load,230Vac			
	Pst	≤1@Full load,230Vac			
	Efficiency(Typ.)	88%@Full load,230Vac			
Input	Rated input voltage(VAC)	220-240VAC			
	Range of input voltage(VAC)	198-264VAC			
	Frequency(Hz)	50/60Hz			
	Displacement factor	≥0.9@Full load,230Vac			
	Power Factor	0.95@Full load,230Vac			
	Input Current max	0.28 A Max.			
	Start-up time	<1S			
	No Load Power	≤0.55W			
	Standby Power	≤0.5W, @DIM TO OFF, 230Vac			
	THD (Typ.)	<10%@Full load,230Vac			
Dimming	Dimming	YES			
	Dimming mode	0-10V			
	Dimming depth	1%			
	Dimming current range	1%-100%			
Protection	Over Load Protection	103-130%			
		YES/Auto Resume			
	Over Voltage Protection	> 59VDC			
		YES/Auto Resume			
capability	Short Circuit Protection	YES/Auto Resume			
	Surge capability (L-N)	2KV			
Withstand voltage	Surge capability (L/N-Ground)	NA			
	Input-Output	3750V/5mA/60S			
Environment	Operating Temperature	-20°C~+45°C			
	Humidity	20%-90%RH			
	Tc	85°C			
	Storage Temperature	-25°C~+85°C			
	Life time	>50000h@Tc=80°C			

	Noise	≤25dB(A)@20cm
Surface	Dimension	113x43x25(LXWXH)mm
Standards	EN 61547; EN 61347-1,EN 61347-2-13; IEC 61347-1,IEC 61347-2-13; GB 19510.1,GB 19510.14; AS 61347.1,AS 61347.2.13; EN 62384; EN IEC 55015,EN IEC 61000-3-2,EN 61000-3-3	
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. 3.The over-temperature protection of the product is provided by the IC. 4.Switch and dimmer are not recommended to connect between this product output and luminaries.	

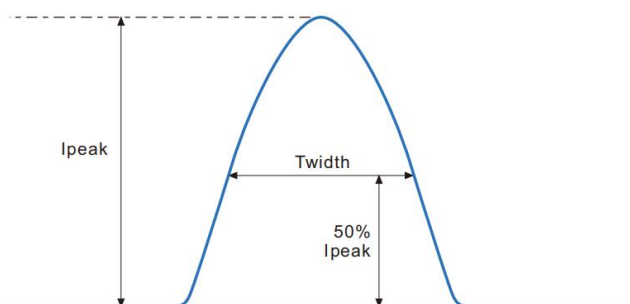
◆ Parameter

Number	Output				Switch position	
	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2
1	700mA	24-42VDC	59VDC	29.4	--	--
2	800mA			33.6	ON	--
3	900mA			37.8	--	ON
*4	1050mA	24-40VDC		42	ON	ON

* Factory default

◆ Inrush Current

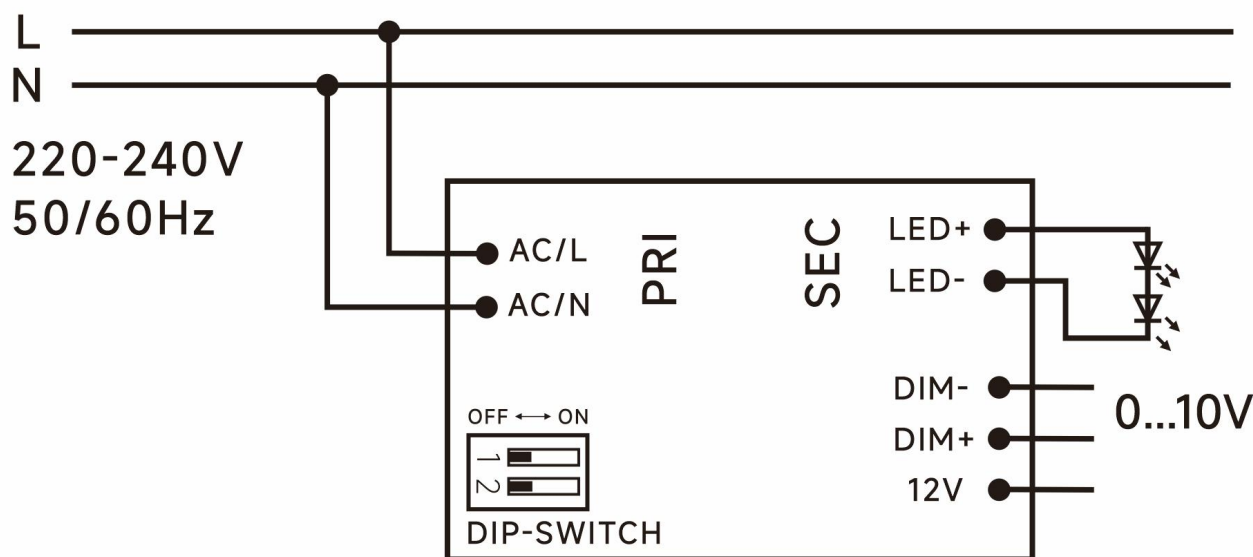
I_{peak}	Twidth	B10	B16	B20	C10	C16	C20
22..1A	152μs	24pcs	39pcs	49pcs	28pcs	45pcs	57pcs



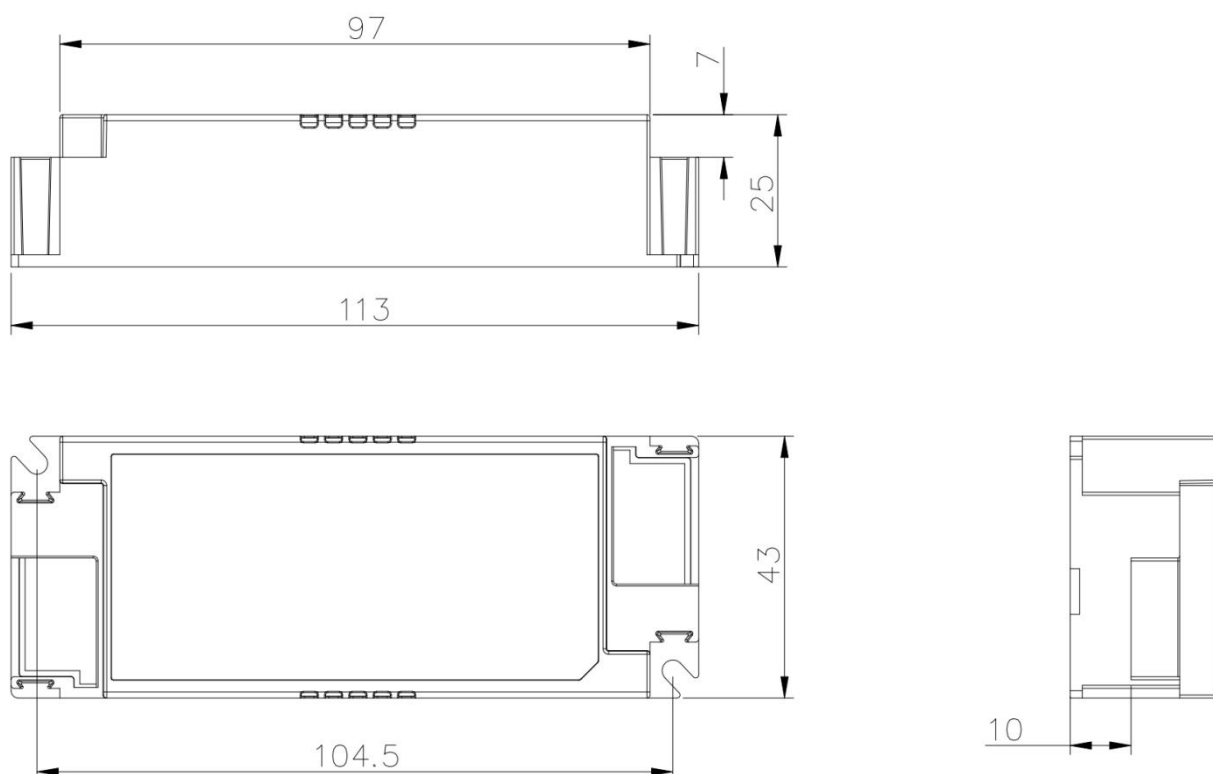
Remarks:

- 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.

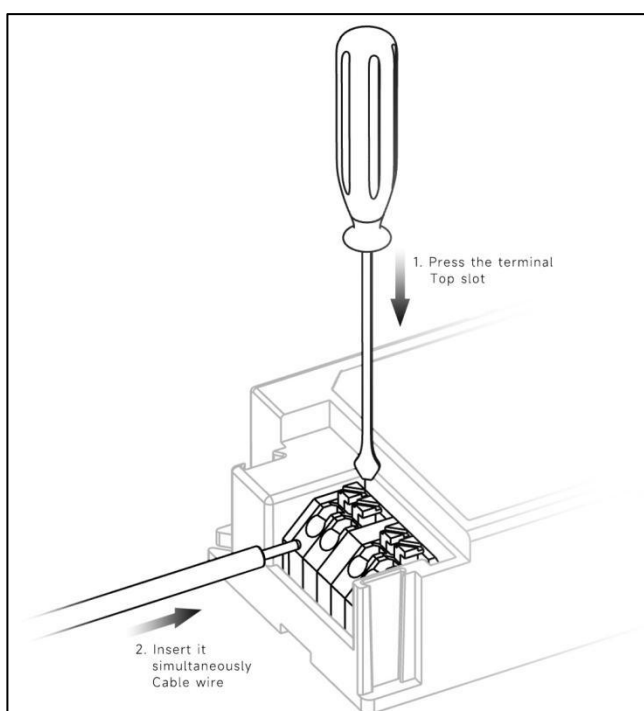
◆ Wiring diagram



◆ 2D diagram



Terminal



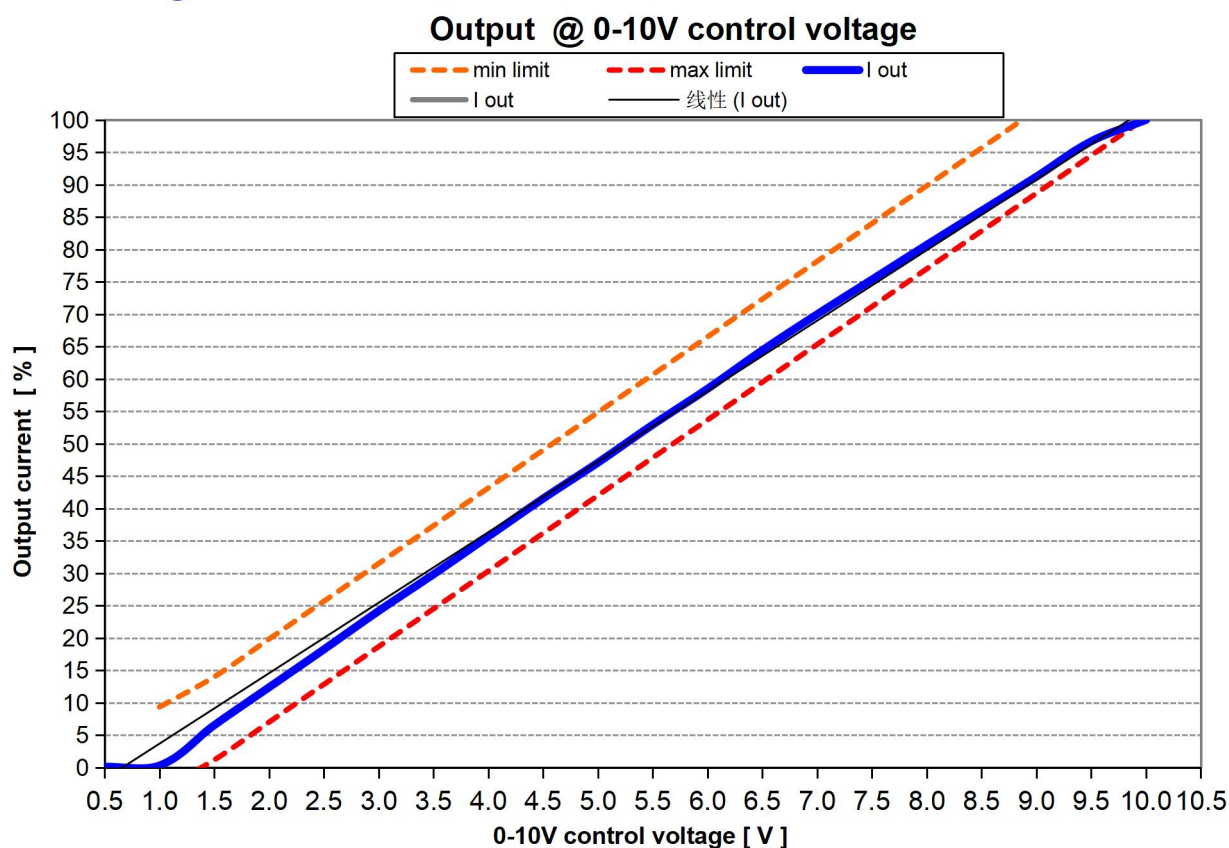
◆ Wiring & Connections

Specification item		Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ²
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

◆ Packaging

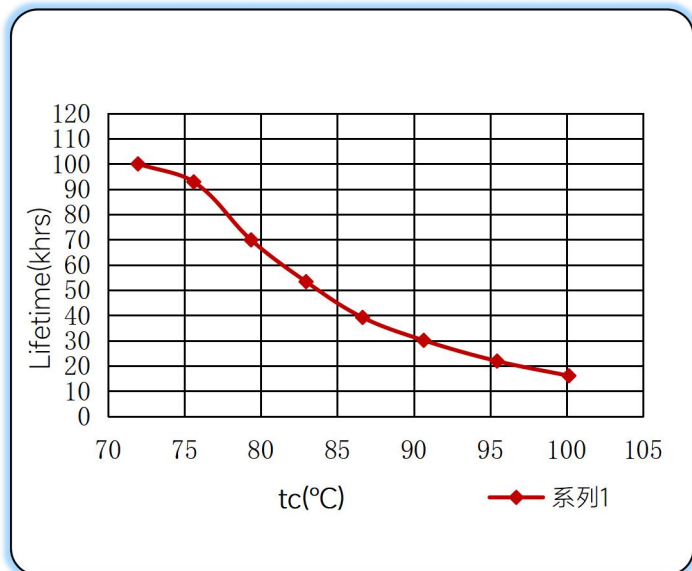
Model	Product Dimensions(mm)	weight/ piece(Kg)	Outer carton dimension(mm)	Quantity/carton	Net weight/carton(Kg)	Gross weight/carton(Kg)
FLS-42-1050 0-10 LD ADV	113x43x25	0.15	315X225X150	70	10.5	11.3

◆ Dimming curve

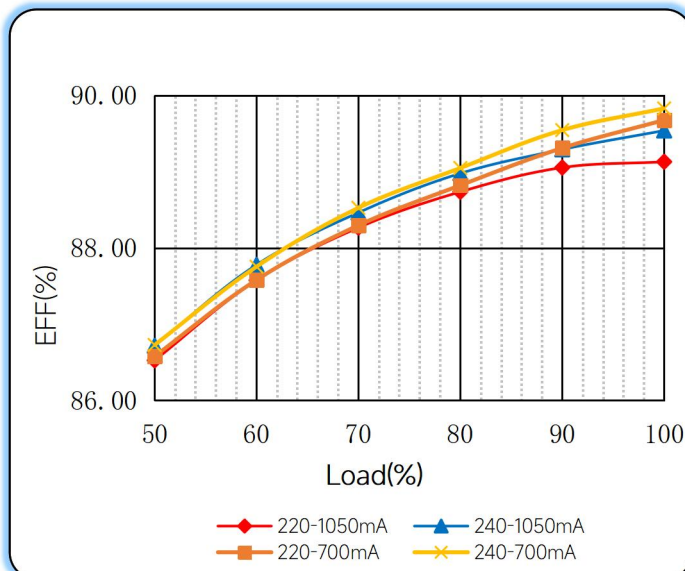


◆ Curve for FLS-42-1050 0-10 LD ADV, $I_o=700/900/1050\text{mA}$

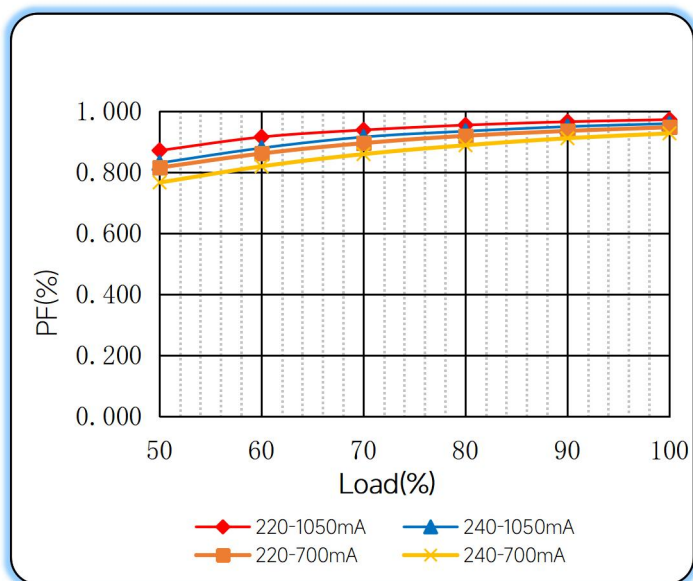
Lifetime vs. Temperature Curve



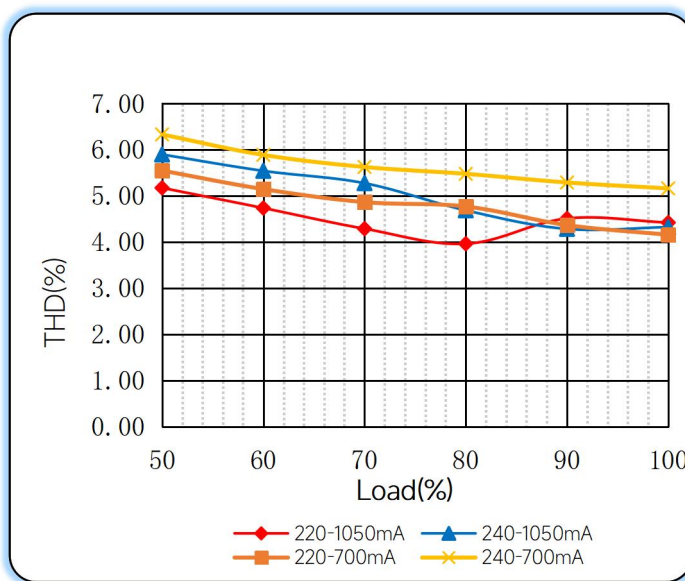
Efficiency vs. Load



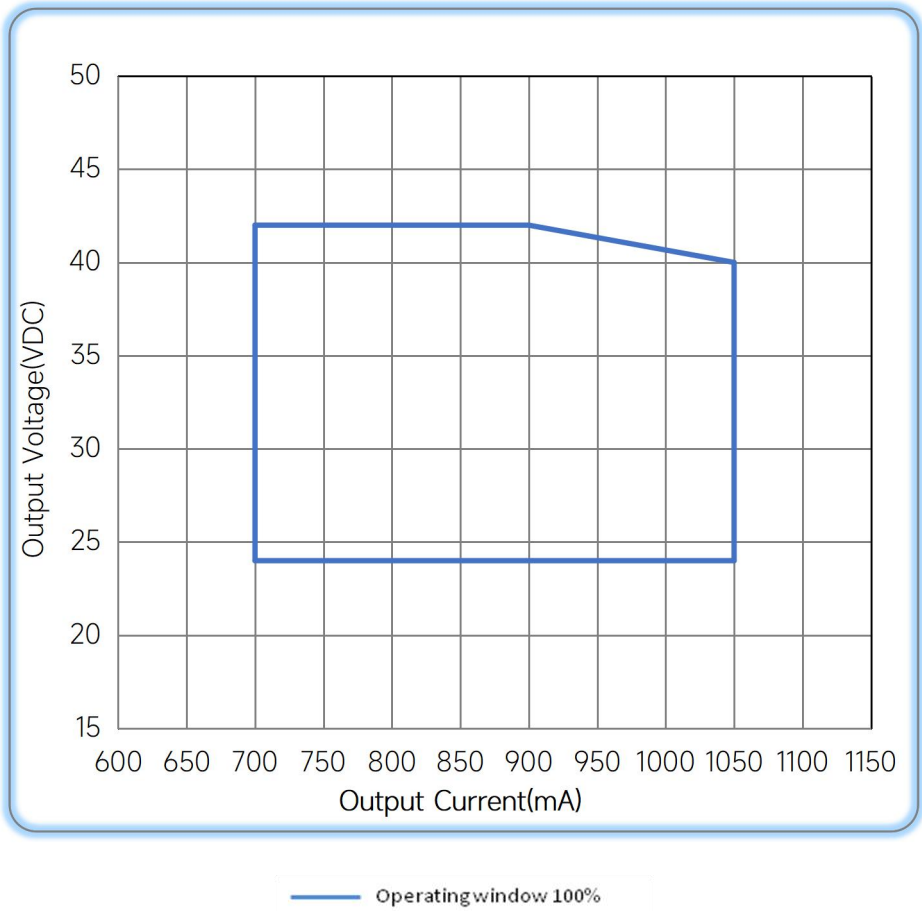
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2025/12/18

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

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