60W 0-10V+RX+PWM Dimming power supply



■Approve

CECB SELV

Features

- For luminaries 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：89%(Typ.)
- Support 0-10V,RX,PWM Dimming
- 5 years warranty

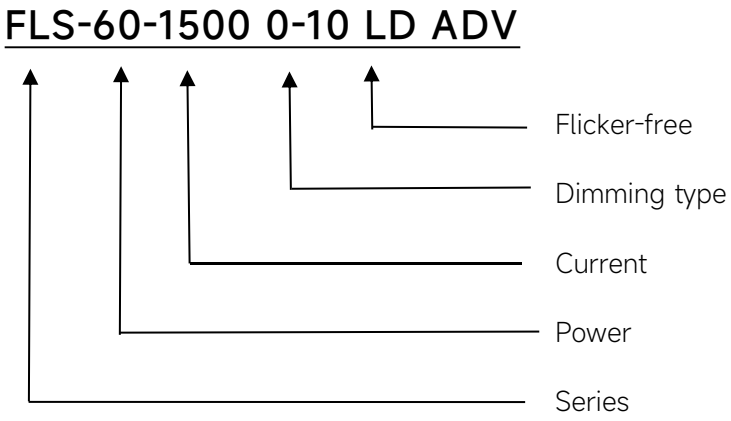
Applications

- LED panel light、Down light

◆ Description

FLS-60-1500 0-10 LD ADV is a 60W constant current LED driver that operates from 198-264Vac input with 1150 to 1500mA output current and a forward voltage range from 24 to 42Vdc. The output current is adjustable by DIP Switch. With it's dimensions from 123x43x25mm. 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



◆ Specification

Output	Constant Current (mA)	1150mA	...	1400mA	1450mA	1500mA
	Voltage Range(VDC)	24-42VDC			24-41VDC	24-40VDC
	Unload voltage Max.(VDC)	59VDC				
	Current Accuracy	±5%				
	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.)	89%@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	0.39 A Max.				
	Start-up time	<1S				
	No Load Power	≤0.55W				
	Standby Power	≤0.5W, @DIM TO OFF, 230Vac				
	THD (Typ.)	<15%@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				
	Short Circuit Protection	YES/Auto Resume				
Capability	Surge capability (L-N)	2KV				
	Surge capability (L/N-Ground)	NA				
Withstand voltage	Input-Output	3750V/5mA/60S				
Environment	Operating Temperature	-20℃~+45℃				
	Humidity	20%-90%RH				
	Tc	85℃				
	Storage Temperature	-25℃~+85℃				
	Life time	>50000h@Tc=80℃				

	Noise	≤25dB(A)@20cm
Surface	Dimension	123x43x25(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℃ 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.	
	5.	

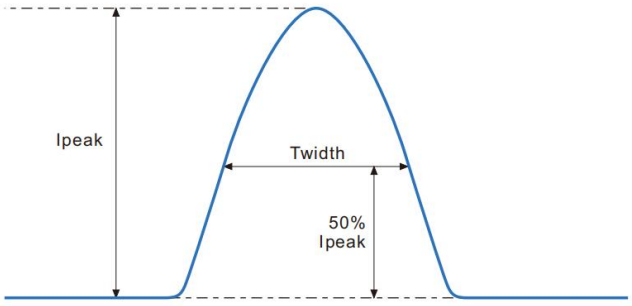
◆ Parameter

Number	Output				Switch position		
	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2	3
1	1150mA	24-42VDC	59VDC	48.3	--	--	--
2	1200mA			50.4	ON	--	--
3	1250mA			52.5	--	ON	--
4	1300mA			54.6	ON	ON	--
5	1350mA			56.7	--	--	ON
6	1400mA			58.8	ON	--	ON
7	1450mA	24-41VDC		59.5	--	ON	ON
*8	1500mA	24-40VDC		60	ON	ON	ON

* Factory default

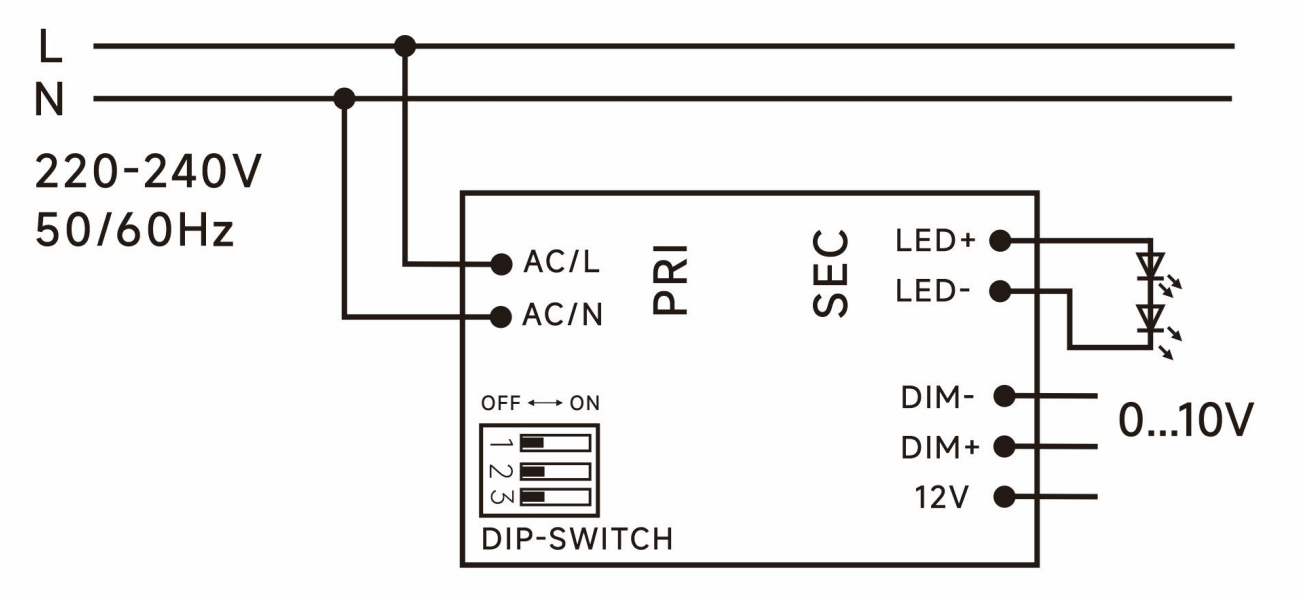
◆ Inrush Current

I_{peak}	T_{width}	B10	B16	B20	C10	C16	C20
28.9A	230.0μs	12pcs	19pcs	24pcs	20pcs	32pcs	40pcs

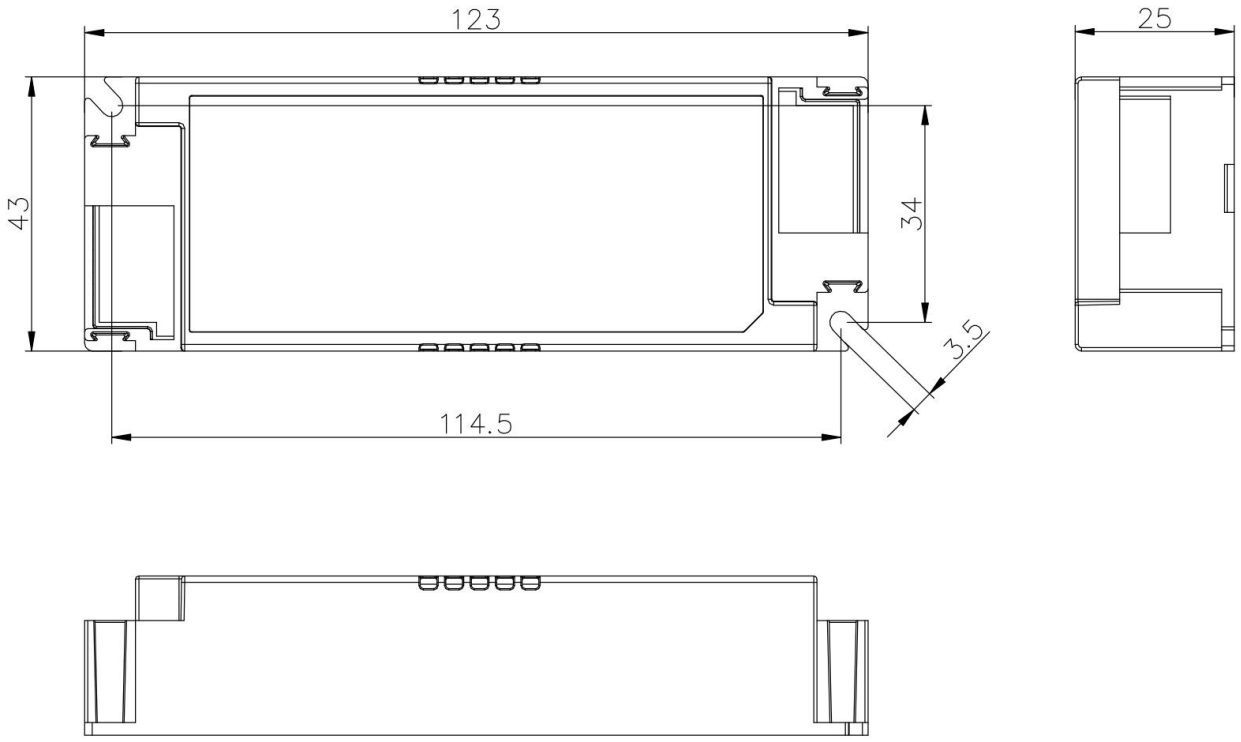


Remarks:
1.The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.
2.Different brands and models of miniature circuit breakers, the number of drives mounted will be slightly different.

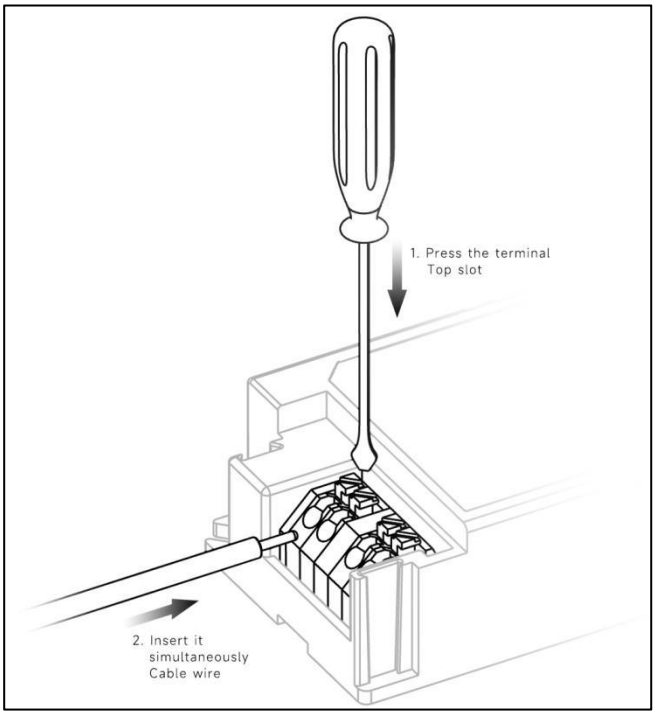
◆ Wiring diagram



◆ 2D diagram



Terminal



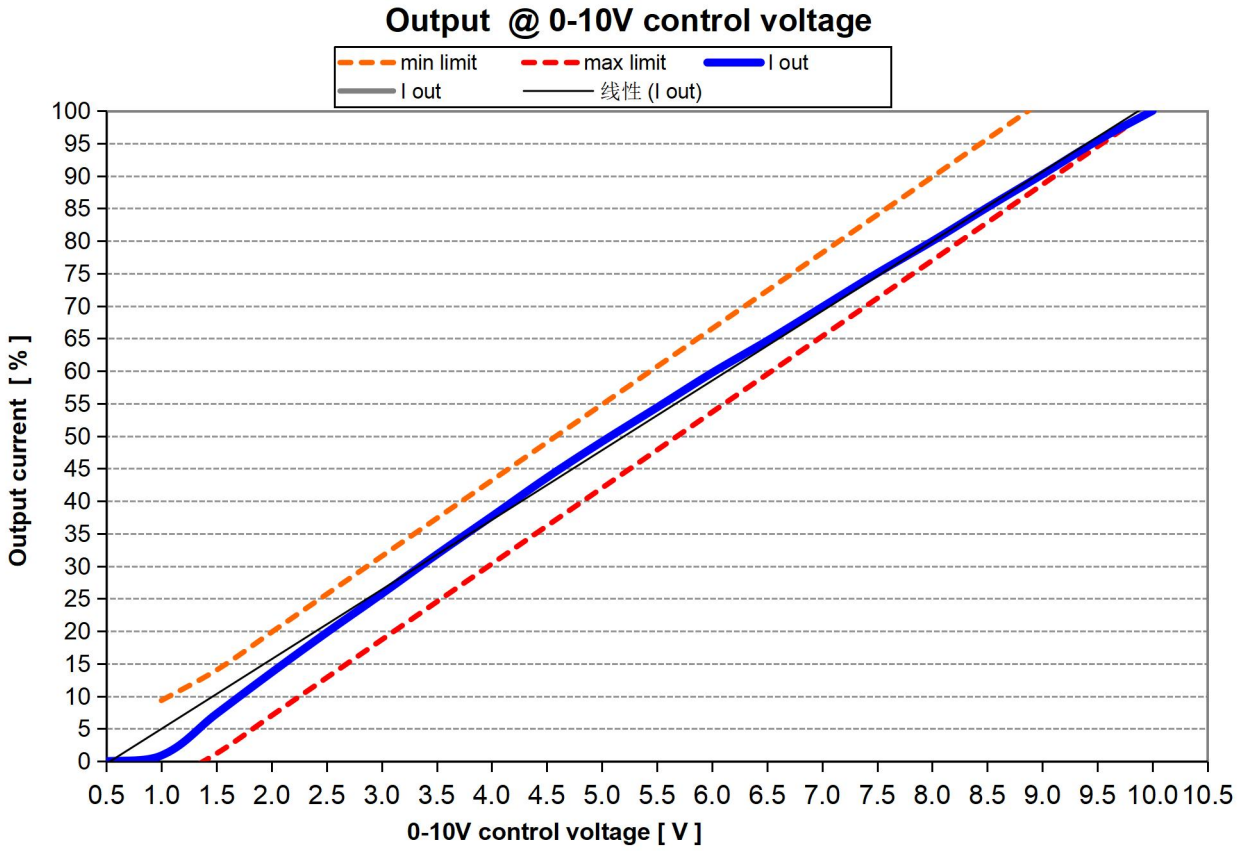
◆ Wiring & Connections

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

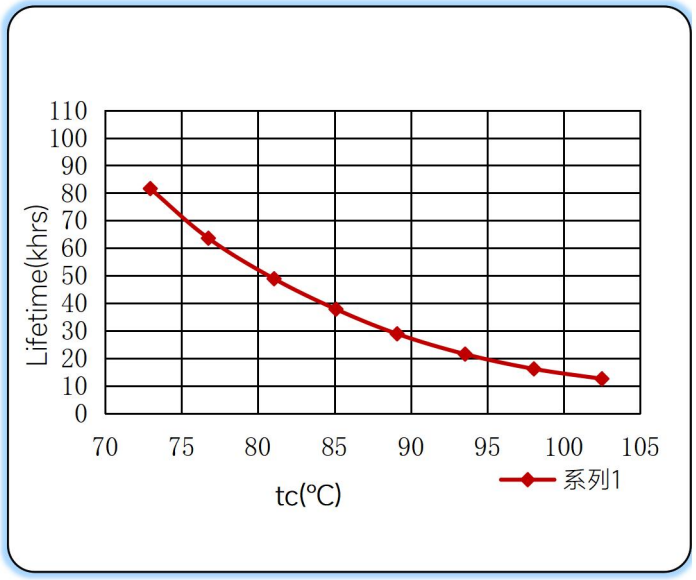
Model	Product Dimensions(mm)	weight/ piece(Kg)	Outer carton dimension(mm)	Quantity/carton	Net weight/carton(Kg)	Gross weight/carton(Kg)
FLS-60-1500 0-10 LD ADV	123x43x25	0.173		72	12.5	13.3

◆ Dimming curve

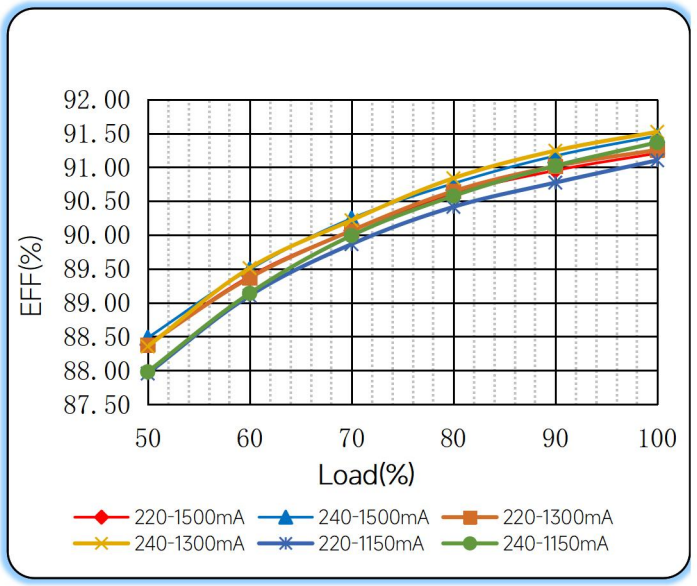


◆ Curve for FLS-60-1500 0-10 LD ADV, Io=1150/1300/1500mA

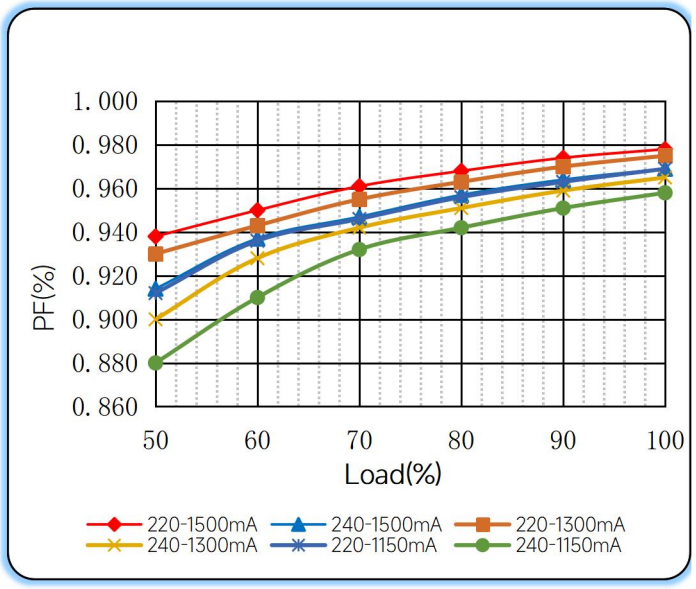
Lifetime vs. Temperature Curve



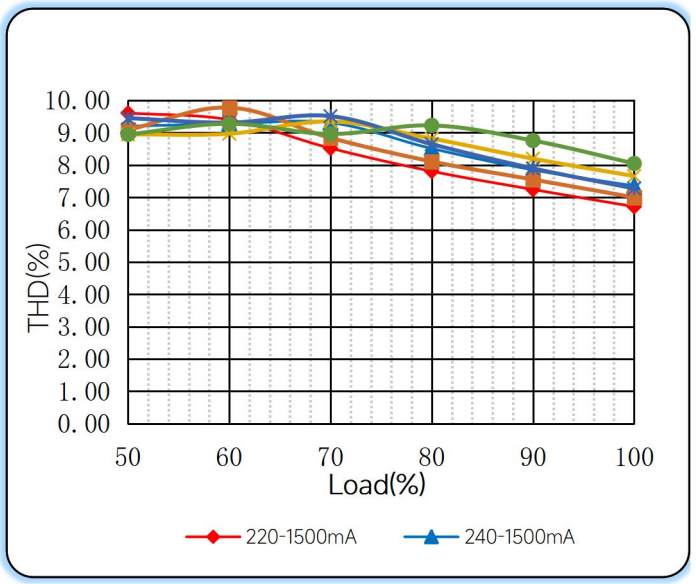
Efficiency vs. Load



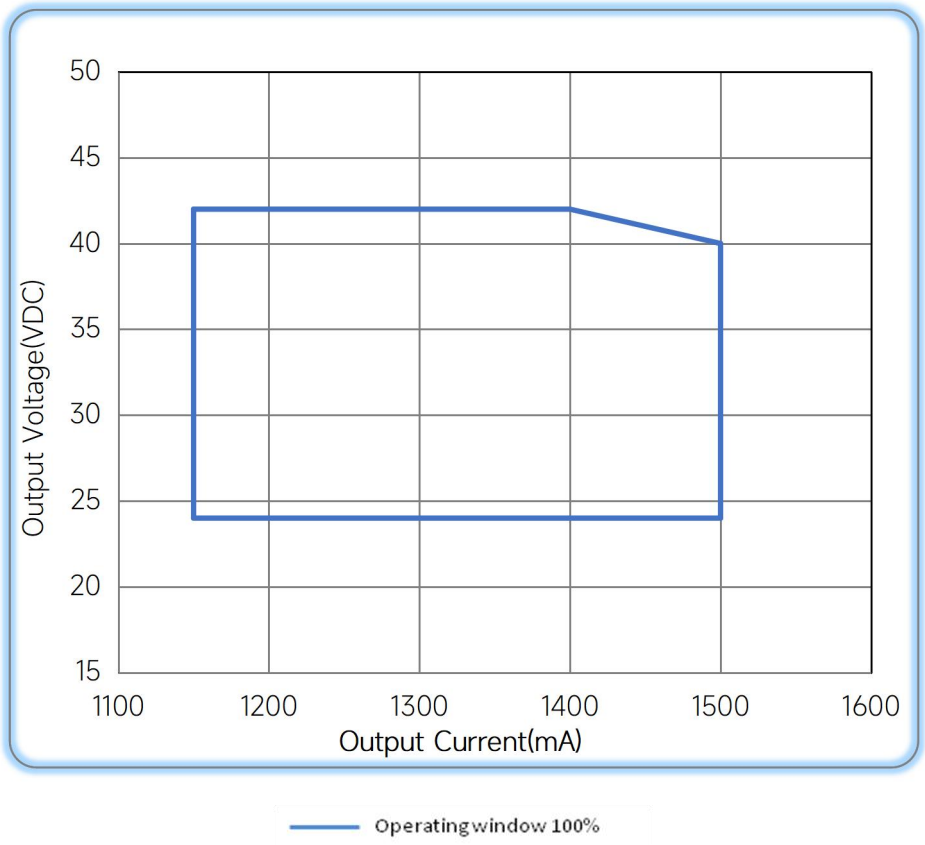
Power Factor Characteristics



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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