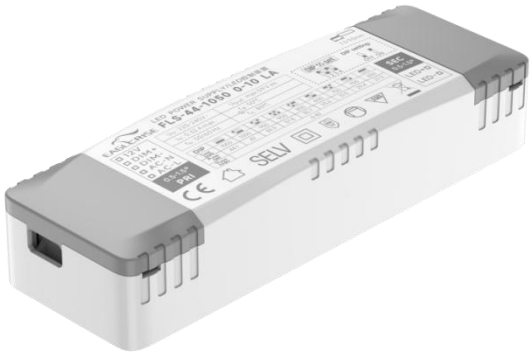
44W 0-10V+RX+PWM Dimming power supply



■Approve

Features

- For luminaries of protection
- Class I, II, SELV, Independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor ： 0.6C-0.97
- Efficiency: ≥85%
- Support 0-10V,RX,PWM Dimming
- 5 years warranty

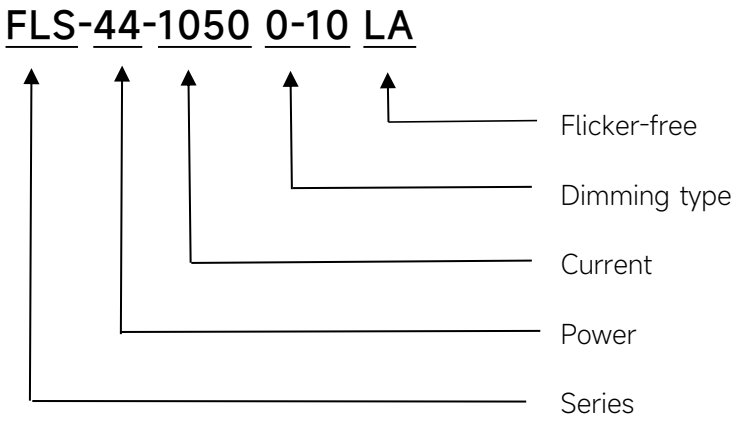
Applications

- LED panel light、Down light

◆ Description

FLS-44-1050 0-10 LA is a 44W constant current LED driver that operates from 198-264Vac input with 650 to 1050mA output current and a forward voltage range from 9 to 42Vdc. The output current is adjustable by DIP Switch. With it's compact dimensions from 138 x 45 x 28mm. It is easy to integrate in LED Panel and down light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code



EAGLERISE

FLS-44-1050 0-10 LA

◆ Specification

Output	Constant Current (mA)	650	700	750	800	850	900	950	1000	1050
	Voltage Range(VDC)	9-42VDC								
	Unload voltage Max.(VDC)	59VDC								
	Current Accuracy	±7%								
	Output HF current ripple(≥1KHz)	±5%								
	Output LF current ripple(≤120Hz)	±3%								
	Auxiliary Output Voltage	12V								
	Auxiliary Output Current	50 mA								
	SVM	≤0.4								
	Pst	≤1								
	Standby Power	≤0.5W								
	Efficiency(Typ.)	≥85%@Full load								
Input	Rated input voltage(VAC)	220-240VAC								
	Range of input voltage(VAC)	198-264VAC								
	Frequency(Hz)	50/60 Hz								
	Displacement factor	≥0.9@Full load								
	Power Factor	0.6C-0.97								
	Input Current max	0.32 A Max								
	Start-up time	＜0.5S								
	No Load Power	≤0.5W								
	THD (Typ.)	≤10%@full load								
Dimming	Dimming	YES								
	Dimming mode	0-10V,RX,PWM								
	Dimming depth	1%								
	Dimming current range	1-100%								
Protection	Over Load Protection	103-120%								
		YES/auto Resume								
	Over Voltage Protection	＞59VDC								
		YES/auto Resume								
	Short circuit Protection	YES/auto Resume								
	Over Temperature Protection	YES/Auto Resume								
Environment	Operating Temperature	-20℃...+45℃								
	Humidity	20%-90%RH								
	Tc	85℃								
	Storage Temperature	-25℃...+80℃								
	Life time	＞50000h@Tc=80℃								
Surface	Dimension	138 x 45 x 28(LXWXH)mm								

Stock code : 002922

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; GB/T 17743,GB 17625.1	
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.Switch and dimmer are not recommended to connect between this product output and luminaries.	

◆ Parameter

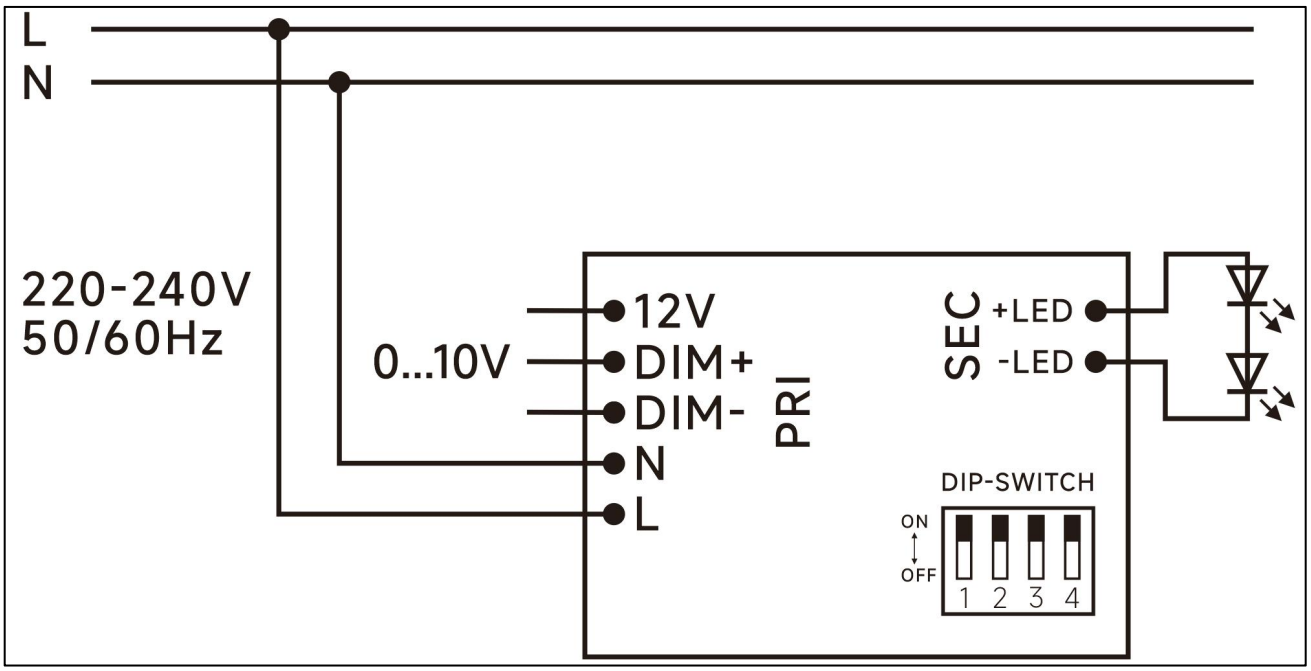
Number	Output				Switch position			
	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2	3	4
1	650mA	9-42VDC	59VDC	27.3	--	--	--	--
2	700mA			29.4	--	--	--	ON
3	750mA			31.5	--	--	ON	--
4	800mA			33.6	--	--	ON	ON
5	850mA			35.7	--	ON	--	--
6	900mA			37.8	--	ON	--	ON
7	950mA			39.9	--	ON	ON	--
8	1000mA			42	--	ON	ON	ON
*9	1050mA			44.1	ON	ON	ON	ON

* Factory default

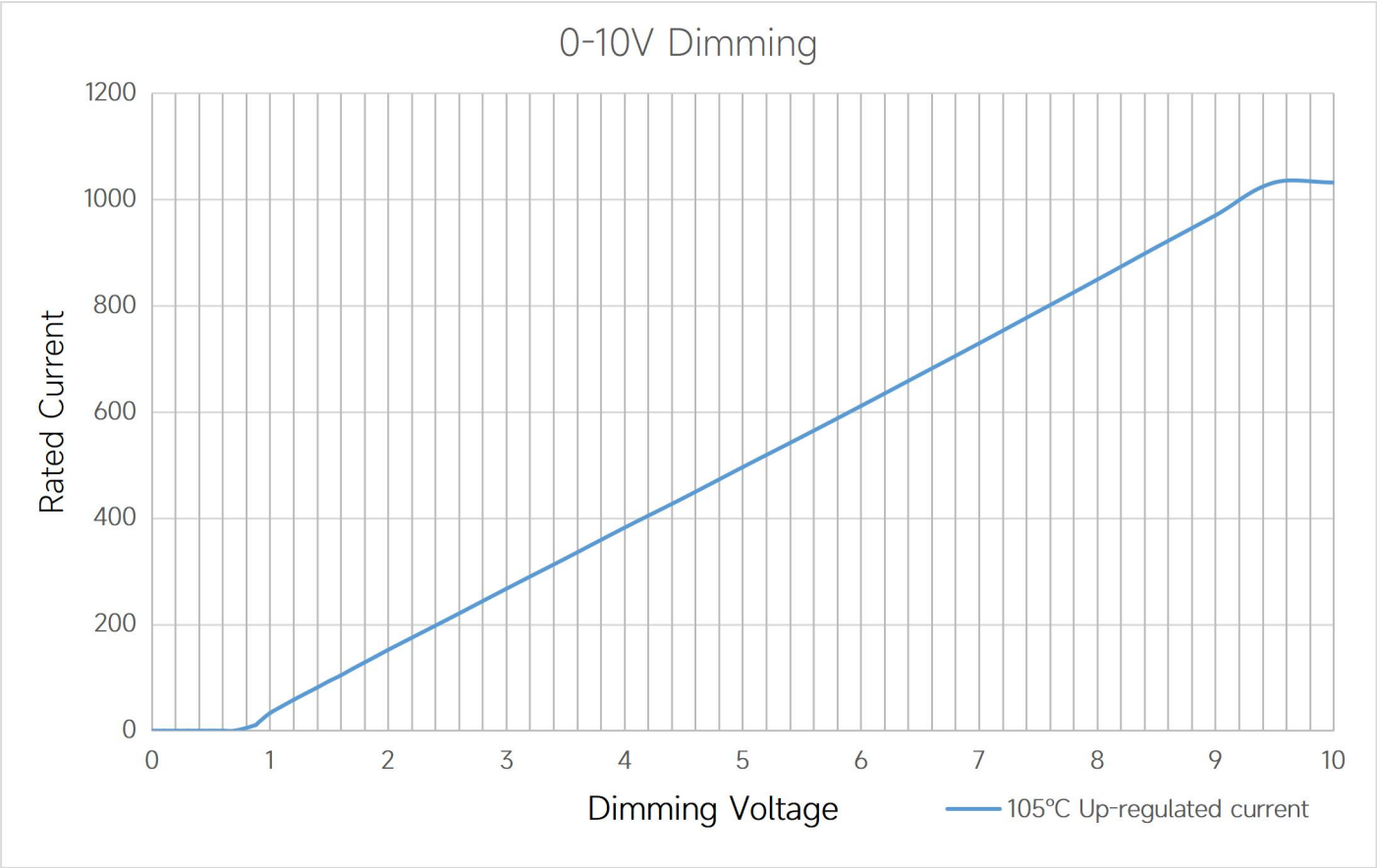
◆ Circuit Breaker

I^{peak}	Twidth	B10	B16	B20	C10	C16	C20
11.7A	**120μs**	25pcs	40pcs	50pcs	25pcs	40pcs	50pcs

◆ Wiring diagram



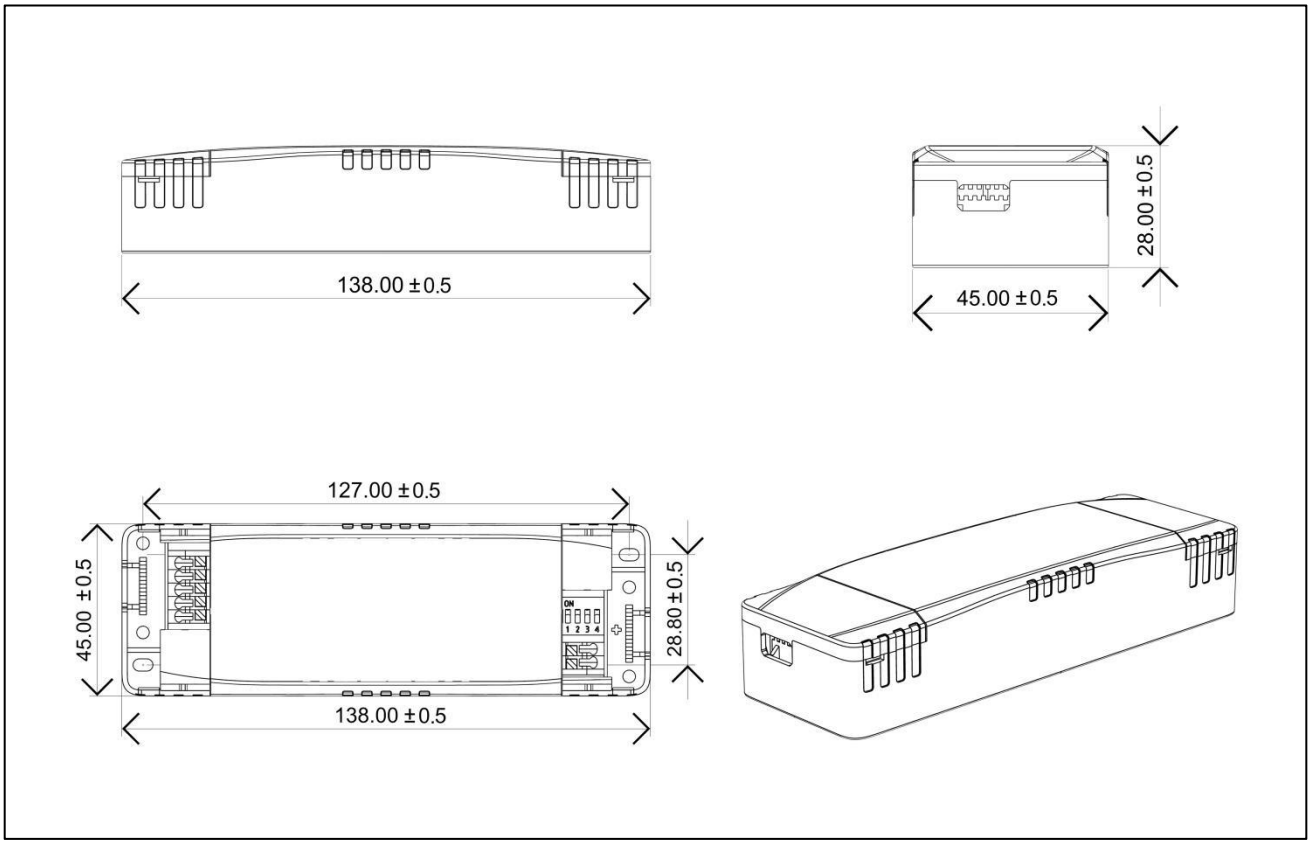
◆ The dimming curve



Stock code : 002922

Article information 2023/ 03/18 REV: B DZ-YF3-02-09A

◆ 2D diagram

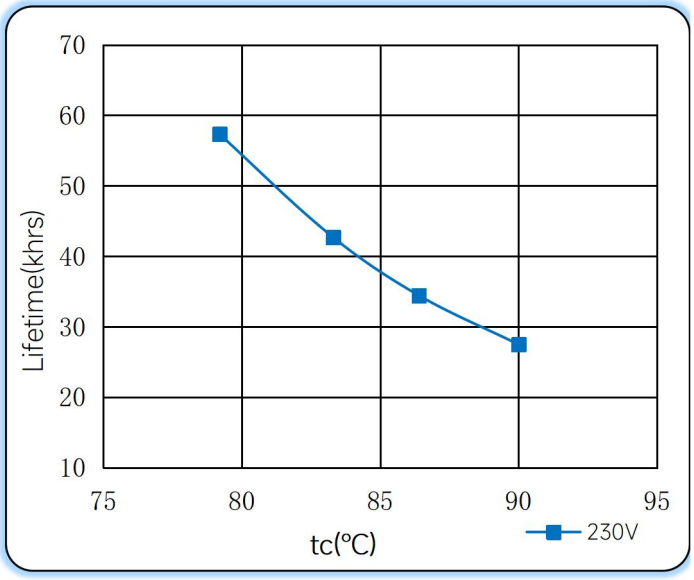


◆ Wiring & Connections

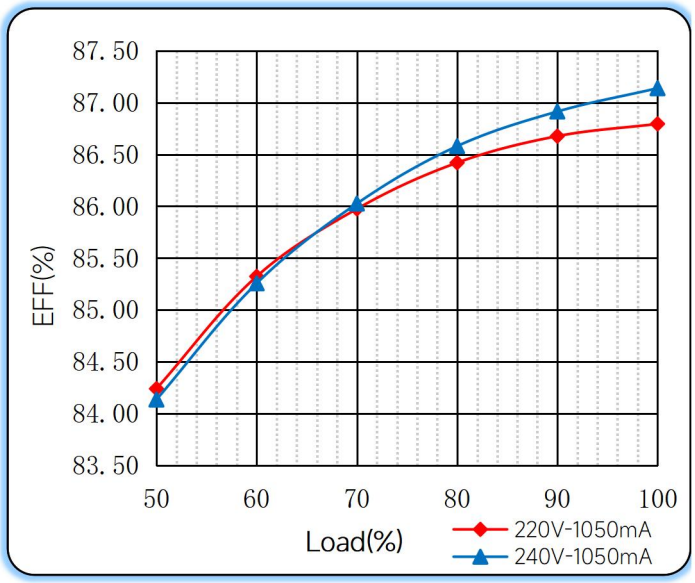
Specification item		Value （Unit ）
Input	Input wire cross-section	0.5...1.5 mm^2
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm^2
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

◆ Curve for FLS-44-1050 0-10 LA, Io=1050mA

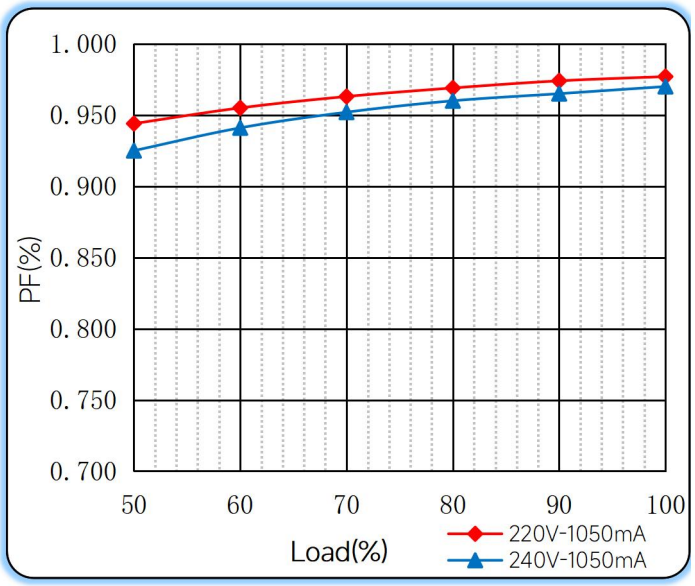
Lifetime vs. Temperature Curve



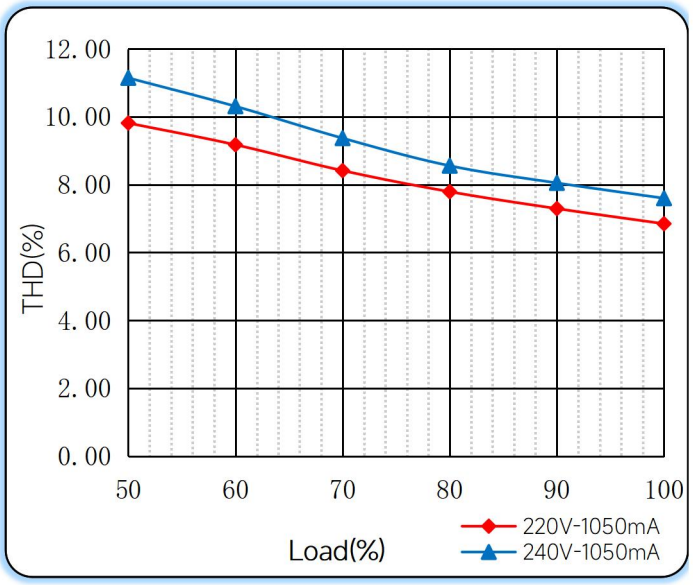
Efficiency vs. Load



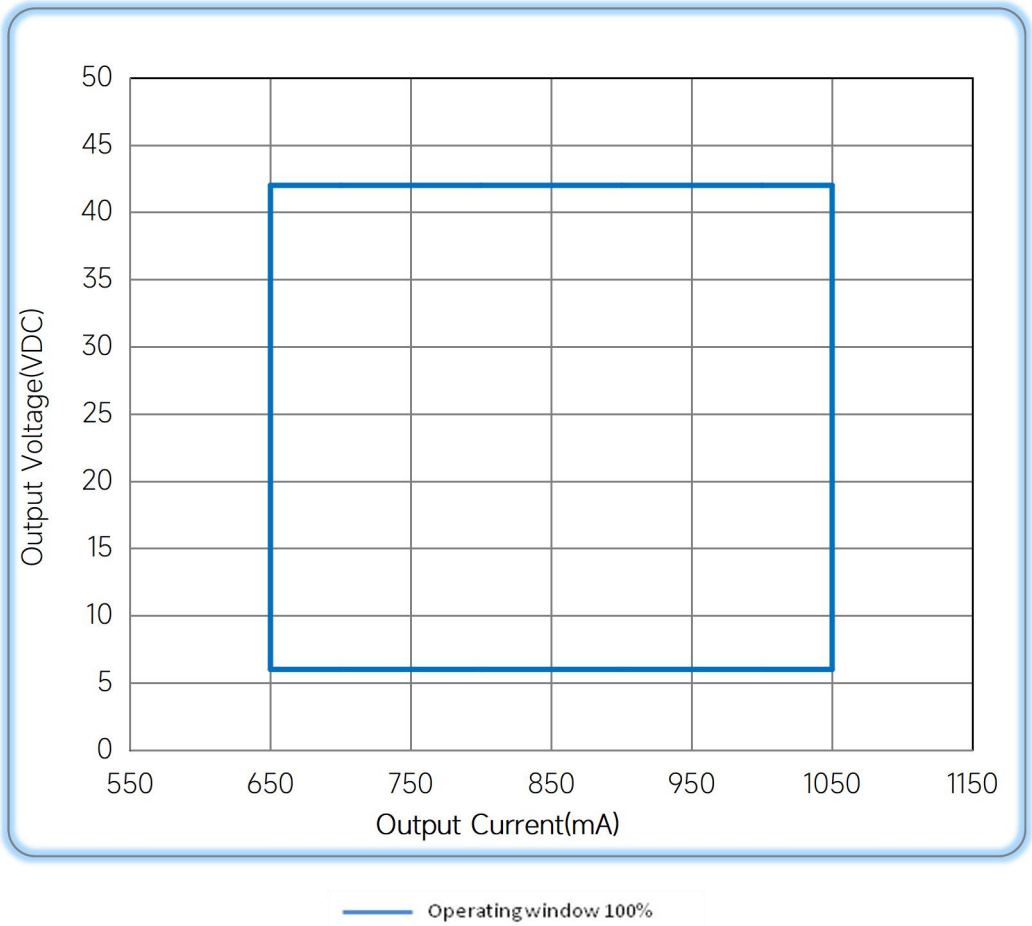
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2023/01/04
Current Accuracy	±7%	±5%	B	2023/03/18