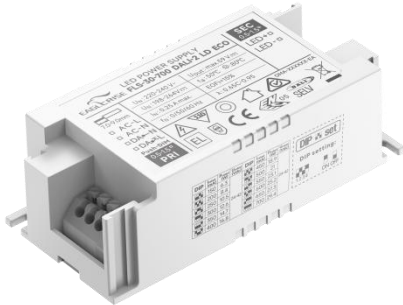


30W DALI + PUSH Dimming power supply



Features

- For luminaries of protection Class I, II, SELV, Built-in/Independent (With side caps)
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor :0.97
- Efficiency :87%
- Support DALI-2, Push Dimming
- 5 years warranty

Applications

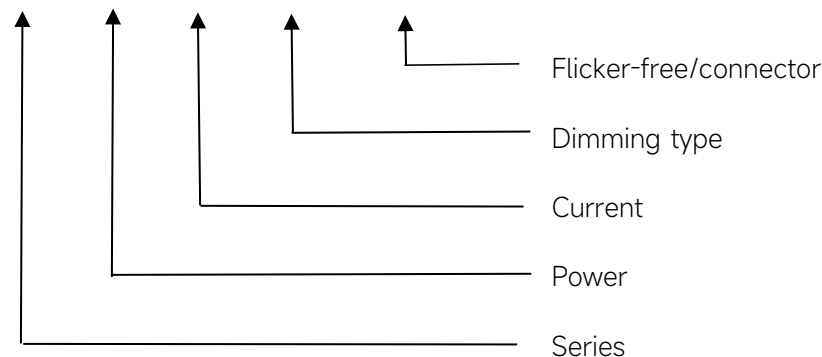
- LED panel, Spot light, Down light

◆ Description

FLS-30-700 DALI-2 LD ECO is a 30W constant current LED driver with 150 to 700mA output current and a forward voltage range from 24 to 42VDC. The output current is adjustable by DIP Switch. With it's dimensions from 97 x 43 x 30 mm. It is easy to integrate in LED panel, spot and down light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code

FLS-30-700 DALI-2 LD ECO



◆ Specification

	Constant Current (mA)	150	200	250	300	350	400	450	500	550	600	650	700
Output	Voltage Range	24-42VDC											
	Unload voltage Max.	59VDC											
	Current Accuracy	±8%			±7%			±5%					
	Output HF current ripple(≥1KHz)	±5%											
	Output LF current ripple(≤120Hz)	±3%											
	SVM	≤0.01@Full Load											
	P _{st}	≤0.05@Full Load											
	Efficiency(Typ.)	≥87%@Full Load, 230VAC											
	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		0.97@220-240VAC, full load											
Input Current		0.25A max.											
Start-up time		< 0.5S											
No Load Power		≤0.5W											
Standby Power		≤0.5W											
Network standby power		≤0.5W											
THD		≤6%@230V, Full Load											
Dimming	Dimming	YES											
	Dimming mode	DALI-2 (IEC 62386-101,102,207) & Push											
	Dimming depth	1%											
	Dimming current range	1 ~100%											
Protection	Over Load Protection	103-120%											
		YES/Latch off											
	Over Voltage Protection	> 59VDC											
		YES/Latch off											
	Short circuit Protection	YES/Latch off											
Over Temperature Protection	YES/Auto Resume												
Environment	Operating Temperature	-20°C~+50°C											
	Humidity	20%-90%RH											
	Tc	80°C											
	Storage Temperature	-40°C~+80°C											
	Lifetime	>50000h,@Tc=75°C											
Surface	Dimension	97X43X30mm (With side caps :131X43X30mm)											

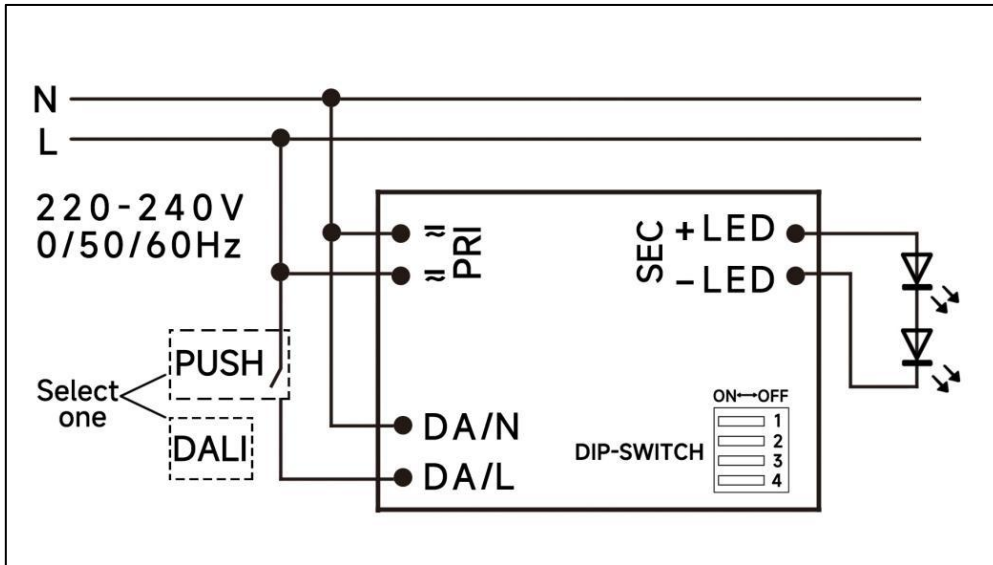
standards	EN 61347-1; EN61347-2-13; EN62384; EN55015; EN61000-3-2 ; EN61000-3-3; EN 61547;		
Others	ErP	EU 2019/2020	
	RoHS	RoHS (2011/65/EU) (EU)2015/863	
Note	<p>1.All parameters NOT specially mentioned are measured at 230VAC input , full load and 25°C of ambient temperature.</p> <p>2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor.</p> <p>3.Output current can be from 150mA to 700mA. Please see Model list below and contact EAGLERISE for details.</p> <p>4.The DC input for this product is only used for emergency lighting and applies to functional and safety requirements, EMC is not</p>		

◆ Parameter

Number	Output				Switch position			
	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2	3	4
1	150mA	24-42VDC	59	6.3	--	--	ON	--
2	200mA	24-42VDC	59	8.4	ON	--	ON	--
3	250mA	24-42VDC	59	10.5	--	ON	ON	--
4	300mA	24-42VDC	59	12.6	ON	ON	ON	--
5	350mA	24-42VDC	59	14.7	--	--	--	ON
6	400mA	24-42VDC	59	16.8	ON	--	--	ON
7	450mA	24-42VDC	59	18.9	--	ON	--	ON
8	500mA	24-42VDC	59	21	ON	ON	--	ON
9	550mA	24-42VDC	59	23.1	--	--	ON	ON
10	600mA	24-42VDC	59	25.2	ON	--	ON	ON
11	650mA	24-42VDC	59	27.3	--	ON	ON	ON
*12	700mA	24-42VDC	59	29.4	ON	ON	ON	ON

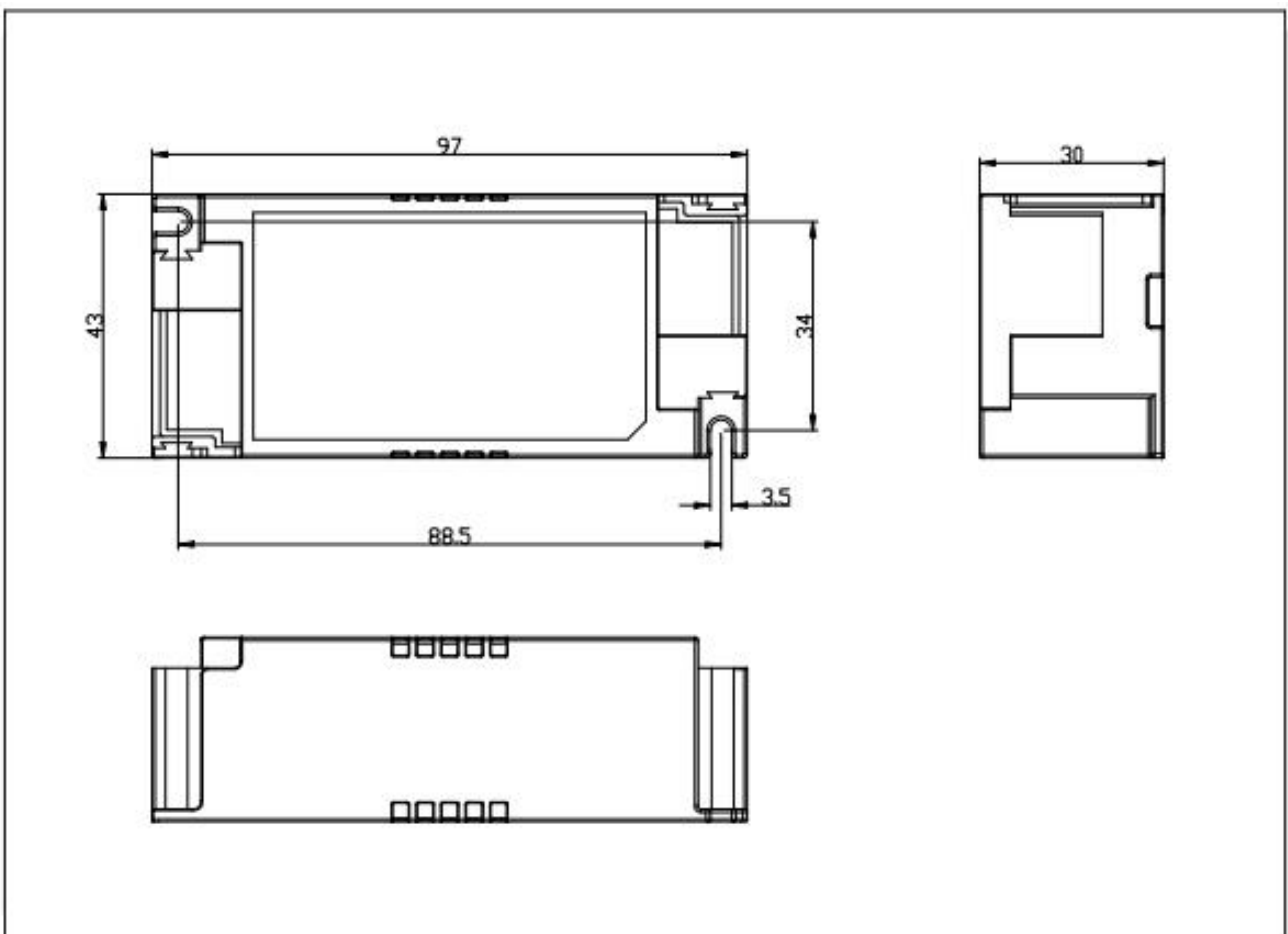
* Factory default

◆ **Wiring diagram**

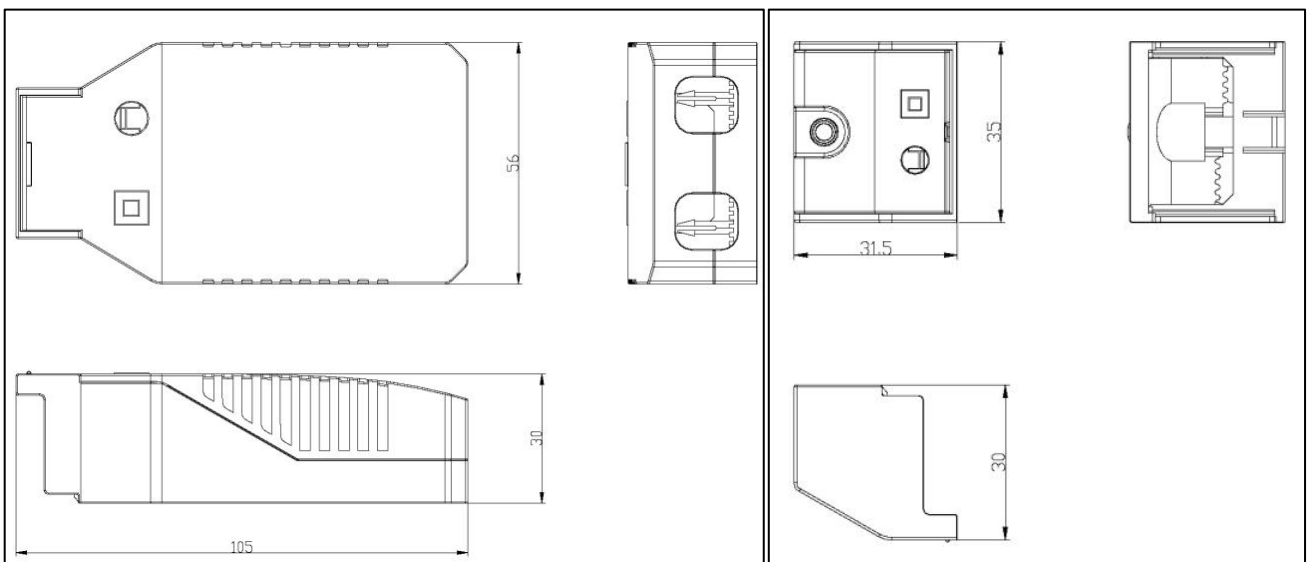
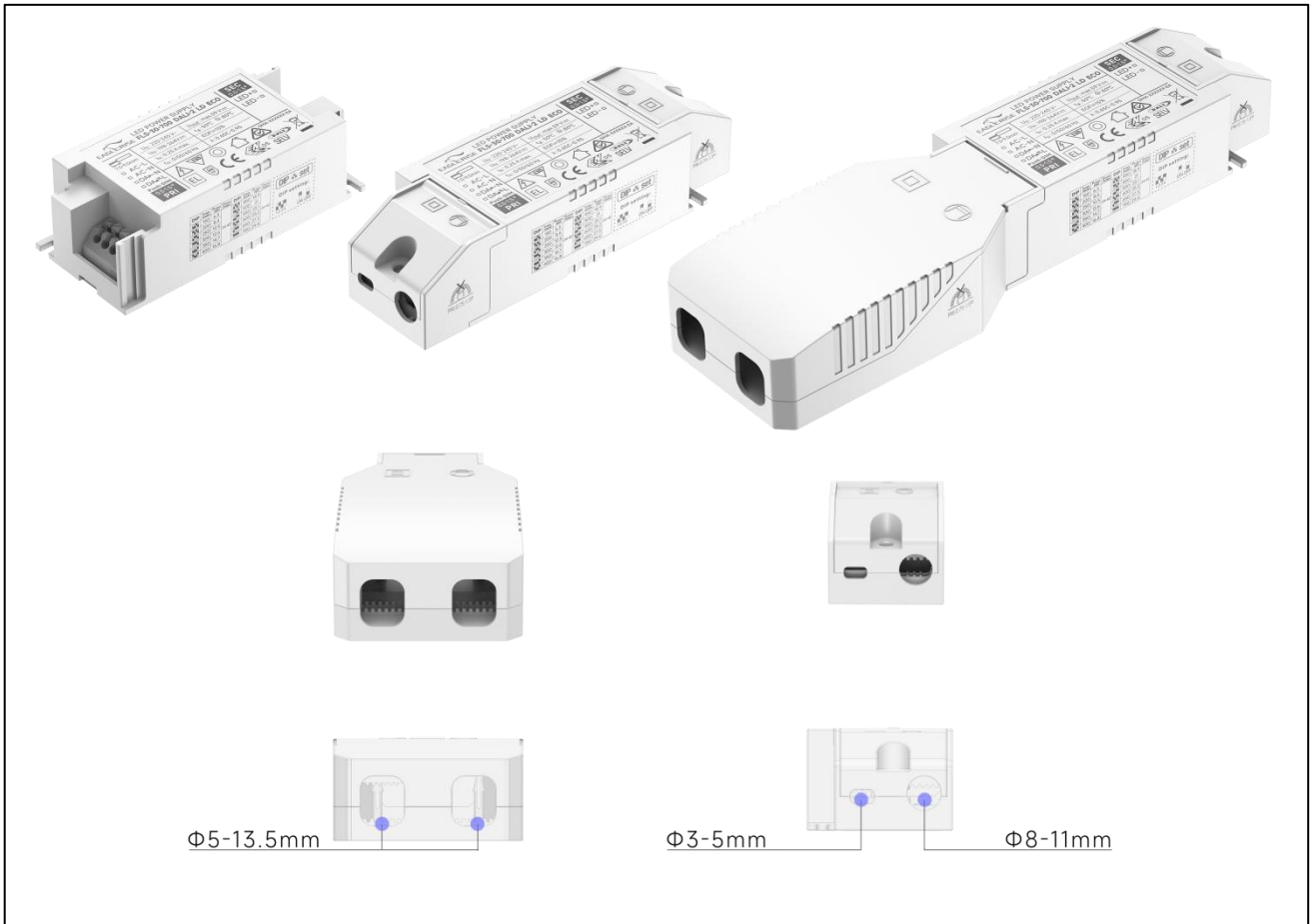


◆ **2D diagram**

Without side caps



With side caps



A caps

B caps



Top end caps coding: 132021T0079-1
 Bottom end caps coding: 132021T0033
 Strain relief coding: 132038T0046
 Terminal coding: 126016T0009



Top end caps coding: 132021T0080-1
 Bottom end caps coding: 132021T0035

◆ Wiring & Connections

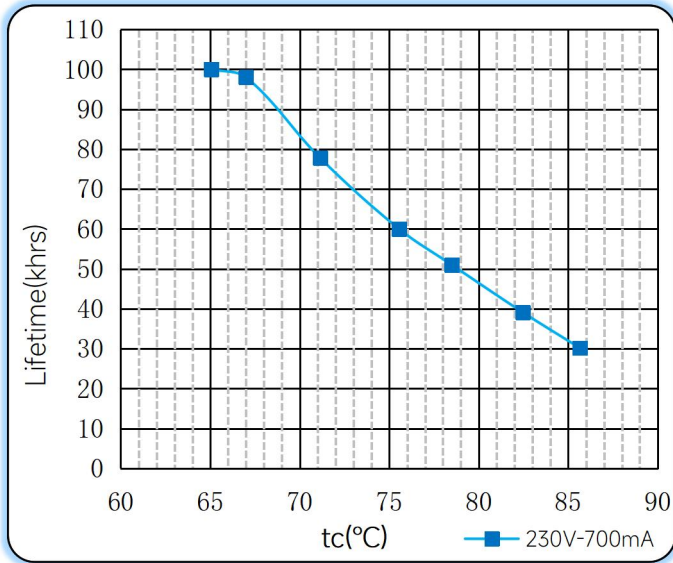
Specification item		Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ² (With A side caps: 0.75...2.5 mm ²)
	Input wire gauge.	16...20 AWG (With A side caps: 14...20 AWG)
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

Common ways of wire clamping:

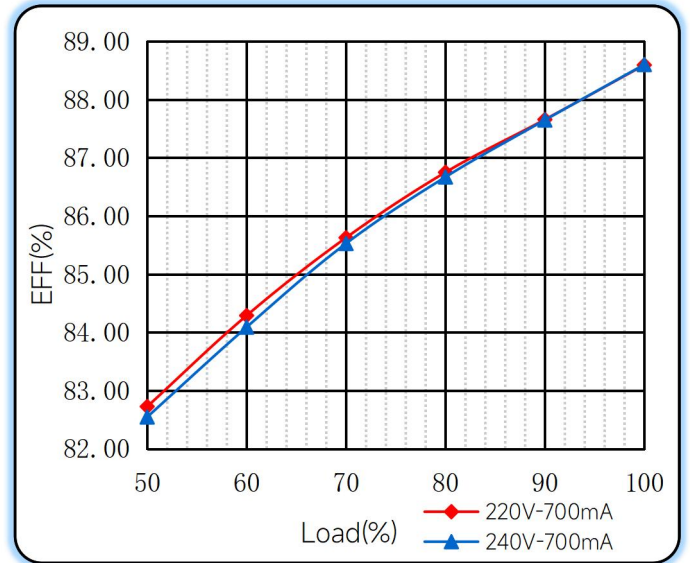
1. Tighten the screws to secure the side cover or clips, to clamp the cables
2. Through the main shell and side cover side teeth to clamp the cables

◆ Curve for FLS-30-700 DALI-2 LD ECO, $I_o=700mA$

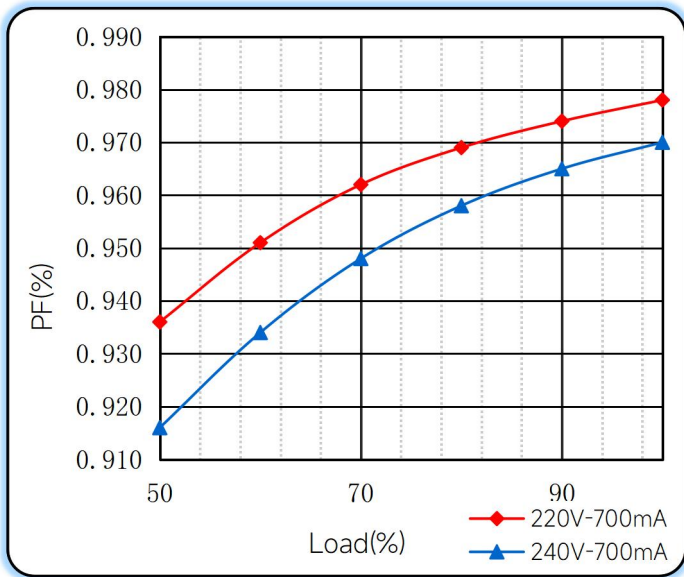
Lifetime vs. Ambient Temperature Curve



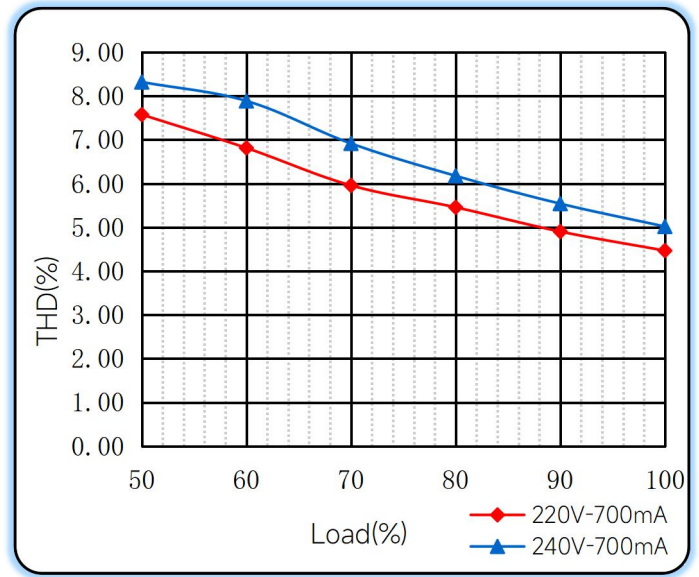
Efficiency vs. Load



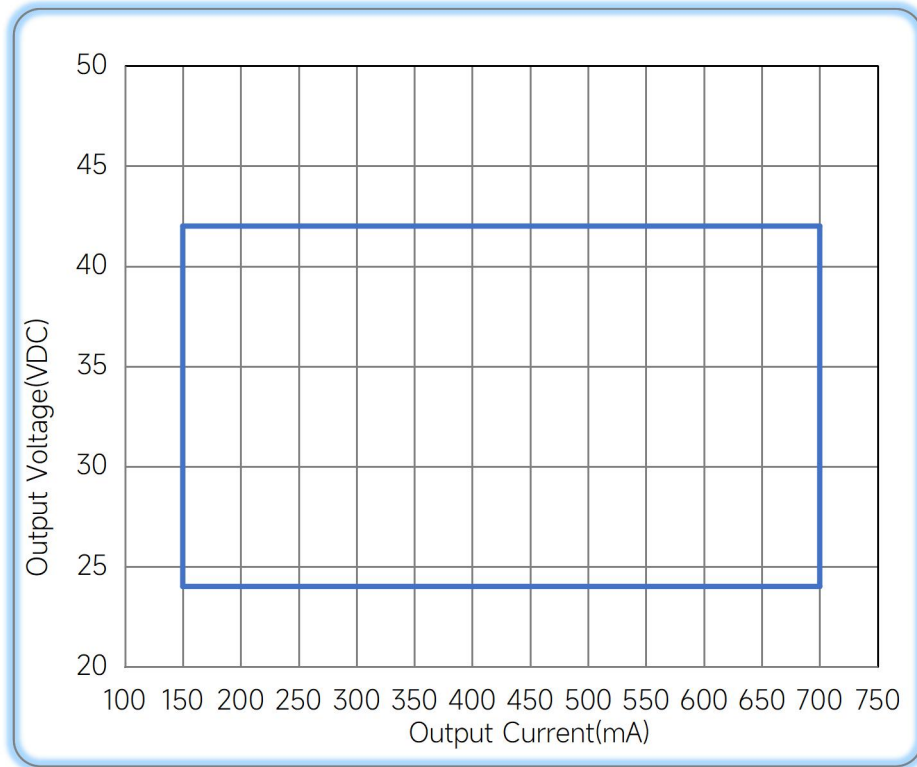
Power Factor Characteristics



THD vs. Load



◆ **Operating window**



— Operating window 100%

◆ **Revision Updates**

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/05/10

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Manual