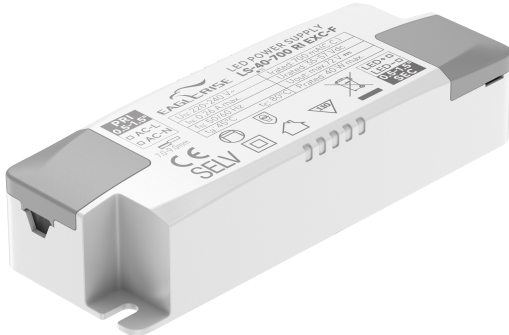


40W Constant Current power supply



■ Approve



Features

- Class II, SELV, Independent
- Input Voltage: 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor: 0.95
- Efficiency: 89%
- 5 years warranty
- IP20

Applications

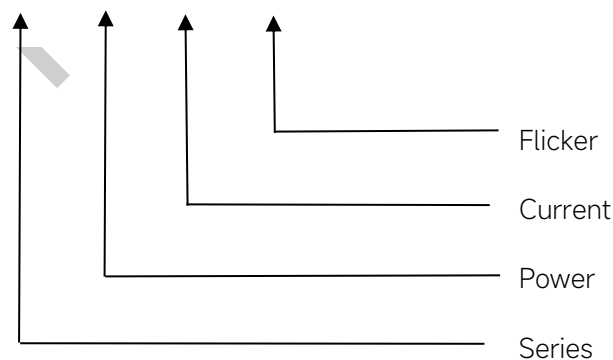
- LED panel, LED down light
- LED spot light

◆ Description

LS-40-700 RI EXC-F is a 40W constant current LED driver with 700mA output current. With it's compact dimensions from 116 x 41 x 26mm. It is easy to integrate in LED Panel, spot and down lights product. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code

LS-40-XXX RI EXC-F



◆ Specification

Output	Constant Current (mA)	700
	Voltage Range(VDC)	35-57
	Unload voltage Max.	72VDC
	Current Accuracy	±5%
	Output HF current ripple(≥1KHz)	±5%
	Output LF current ripple(≤120Hz)	±60%
	Efficiency(Typ.)	89%@Full load,230V
Input	Rated input voltage	220-240VAC
	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,230V
	Input Current max (mA)	260
	Start-up time	< 0.5S
	No Load Power	≤0.5W
	Standby Power	≤0.5W
	THD (Typ.)	<15%@Full load,230V
Protection	Over Load Protection	103-120%
		YES/Auto Resume
	Over Voltage Protection	72VDC
		YES/Auto Resume
	Short circuit Protection	YES/Auto Resume
Environment	Operating Temperature	-20°C~+45°C
	Humidity	20%-90%RH
	Tc	80°C
	Storage Temperature	-25°C~+60°C
	Life time	> 50000h@Tc=75°C
	Ripple&Noise	≤20dB(A)@10cm
Surface	Dimension	116X41X26(LXWXH)mm
	material	PP
Standards	Safety	EN61347- 1, EN61347-2- 13;EN62384
	EMC	EN55015, EN61000-3-2, EN61000-3-3, EN61547;EN61000-4-5
	ErP	Erp2.0 EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863

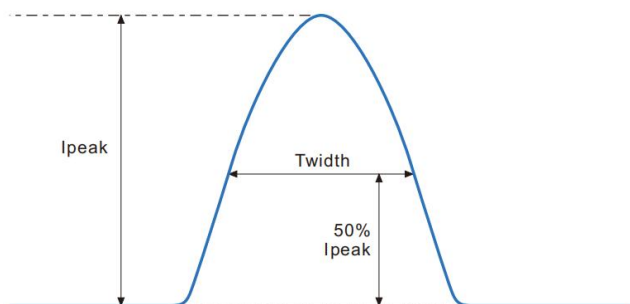
Note

- 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.Data are typical values obtained from test samples
- 4.Switch and dimmer are not recommended to connect between this product output and luminaries.

Preliminary

◆ Inrush Current

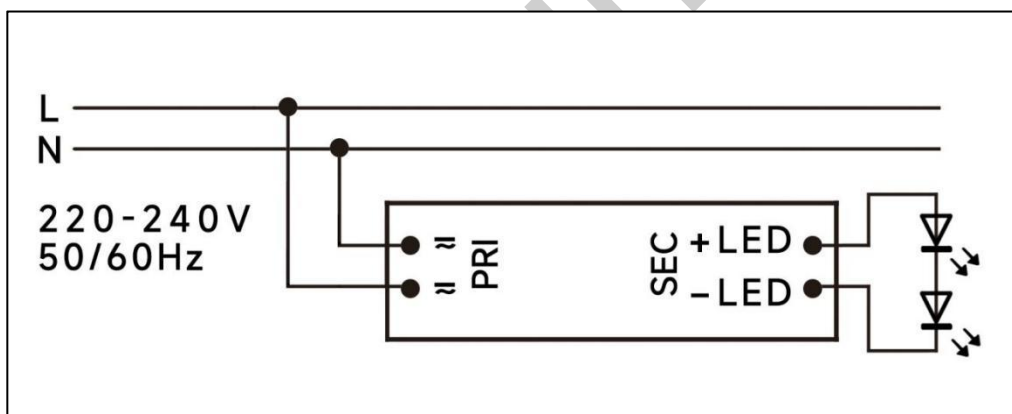
I_{peak}	Twidth	B10	B16	B20	C10	C16	C20
6.12A	38 μ s	30pcs	49pcs	61pcs	30pcs	49pcs	61pcs



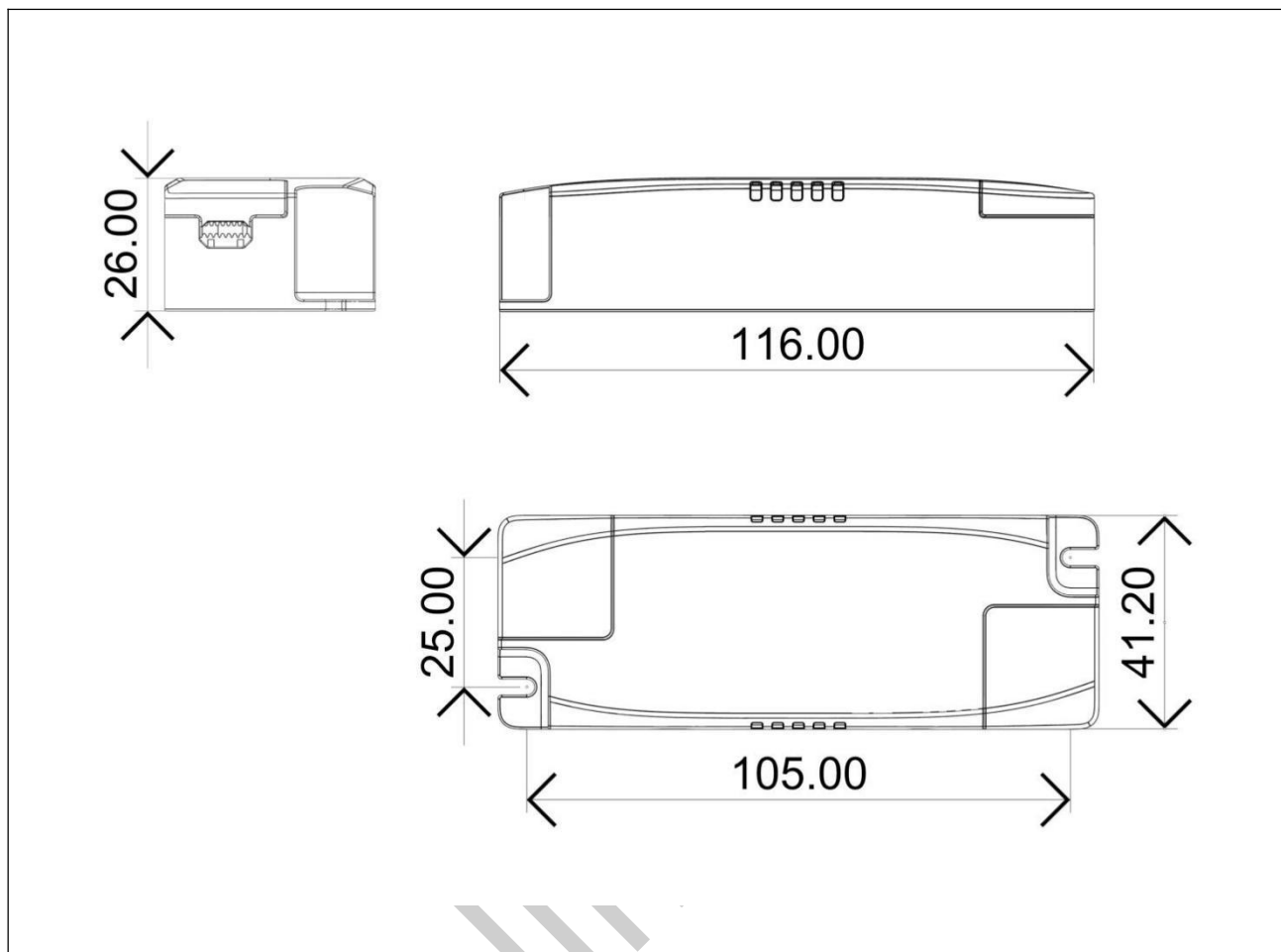
Remarks:

- 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



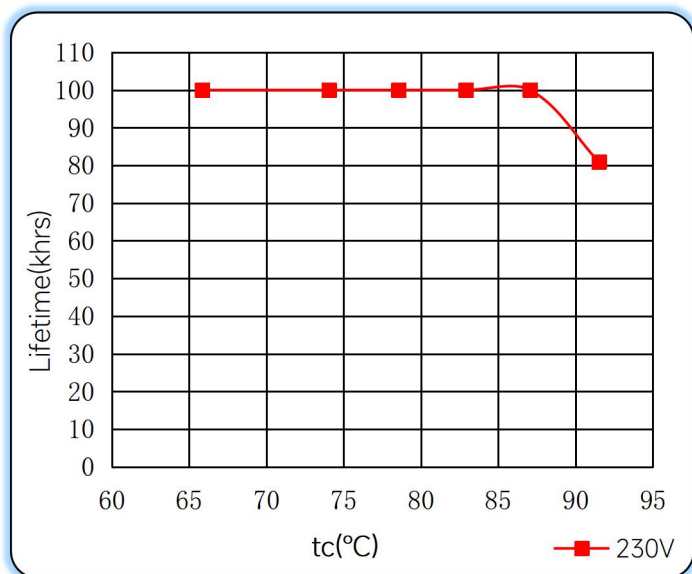
◆ Wiring & Connections

Specification item		Value (Unit)
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

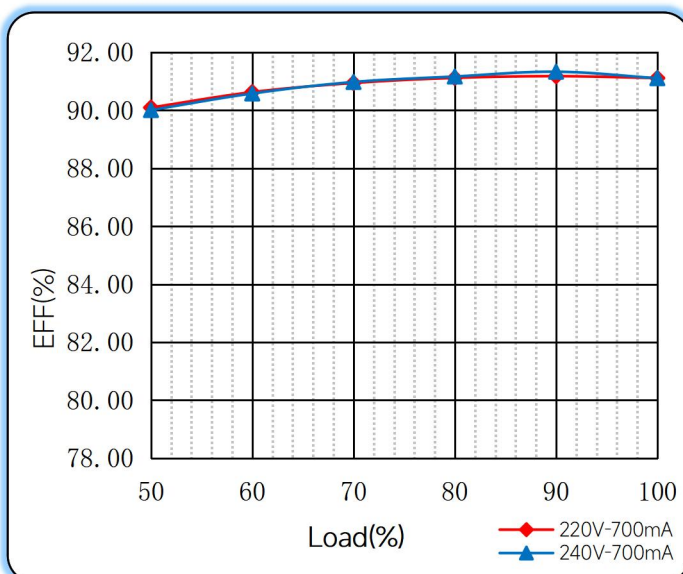
Note: Solid wire is risky to use on an angled terminal. Stranded wire is recommended for this kind of use.

◆ Curve for LS-40-700 RI EXC-F, $I_o=700\text{mA}$

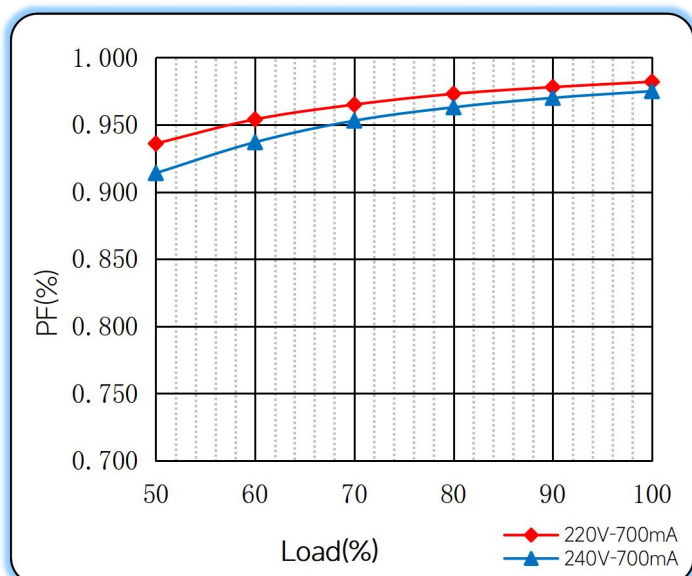
Lifetime vs. Temperature Curve



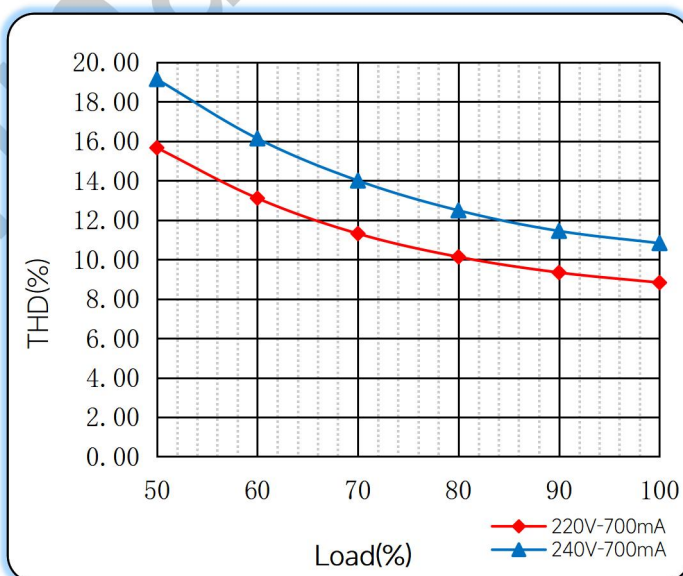
Efficiency vs. Load



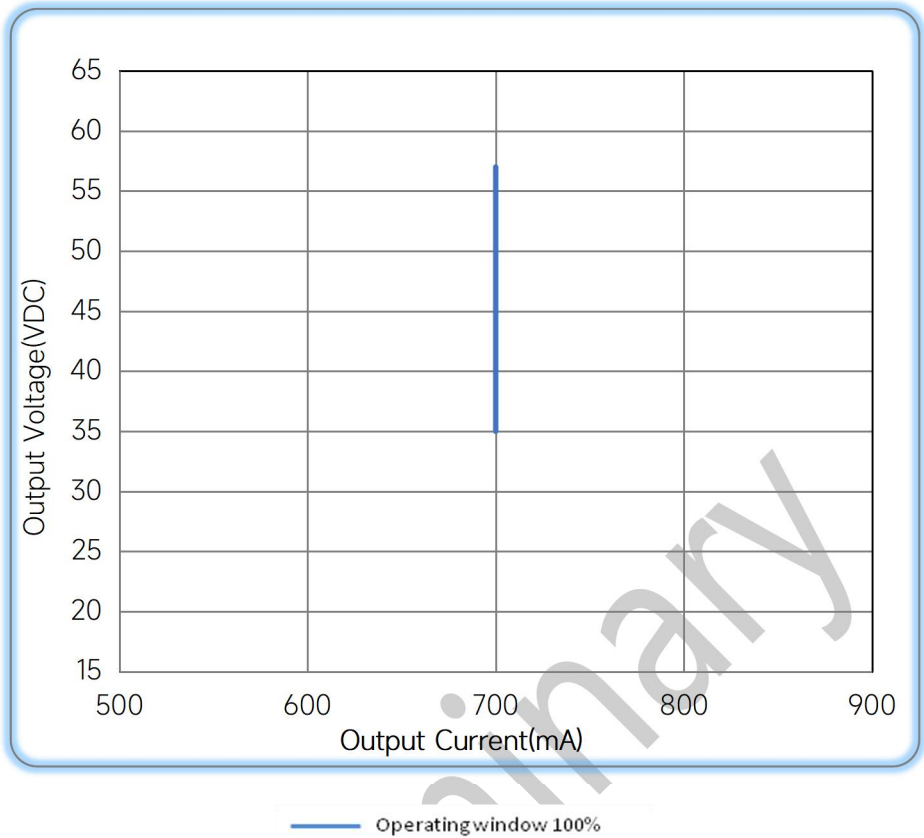
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2023/11/02
Output LF current ripple	±50%	±60%	B	2024/01/12

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

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EAGLERISE



Manual