20W Constant Current 0-10V-FLS Series

■Approve

CE SELV

Features

- Class Ⅱ, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor 0.9C
- Efficiency ⩾84%
- Support 0-10V Dimming
- 5 years warranty

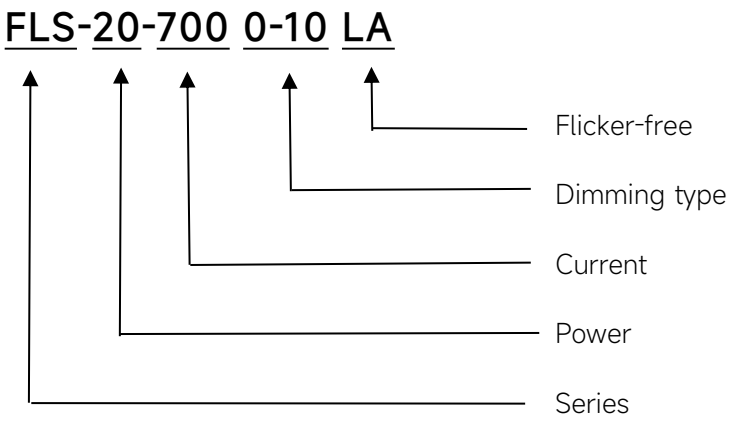
Applications

- LED panel light、Down light

◆ Description

FLS-20-700 0-10 LA is an 20W constant current LED driver that operates from 176-264Vac input with 400 to 700mA output current and a forward voltage range from 12 to 40Vdc.The output current is adjustable by DIP Switch.With it's compact dimensions from 125 x 45 x 27.5mm 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



◆ Specification

Output	Constant Current (mA)	700mA
	Voltage Range(VDC)	12-40VDC
	Unload voltage Max.(VDC)	50VDC
	Current Accuracy	±5%
	Output LF current ripple(≤120Hz)	≤42mAp-p@Full Load,240VAC
	SVM	≤0.4
	Pst	≤1
	Efficiency(Typ.)	≥84%
Input	Rated input voltage(VAC)	220-240VAC
	Range of input voltage(VAC)	176-264VAC
	Range of input voltage(VDC)	176-280VDC
	Frequency(Hz)	0/50/60 Hz
	Displacement factor	≥0.7
	Power Factor	0.9C
	Input Current max	0.17A MAX. @Full Load,176VAC
	Start-up time	< 0.5S
	No Load Power	≤0.5W
	THD (Typ.)	≤9%
Dimming	Dimming	YES
	Dimming mode	0-10V
	Dimming depth	1%
	Dimming current range	5 ~100%
Protection	Over Load Protection	103-120%
		YES/Non-auto Resume
	Over Voltage Protection	> 50VDC
		YES/Non-auto Resume
	Short circuit Protection	YES/Non-auto Resume
	Over Temperature Protection	YES/Auto Resume
Environment	Operating Temperature	-20℃...+45℃
	Humidity	20%-90%RH
	Tc	80℃
	Storage Temperature	-20℃...+45℃
	Life time	> 30,000h@45℃
Surface	Dimension	125X45X27.5(LXWXH)mm
standards	EN 61347-1; EN61347-2-13; EN62384	
Others	ErP	EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863

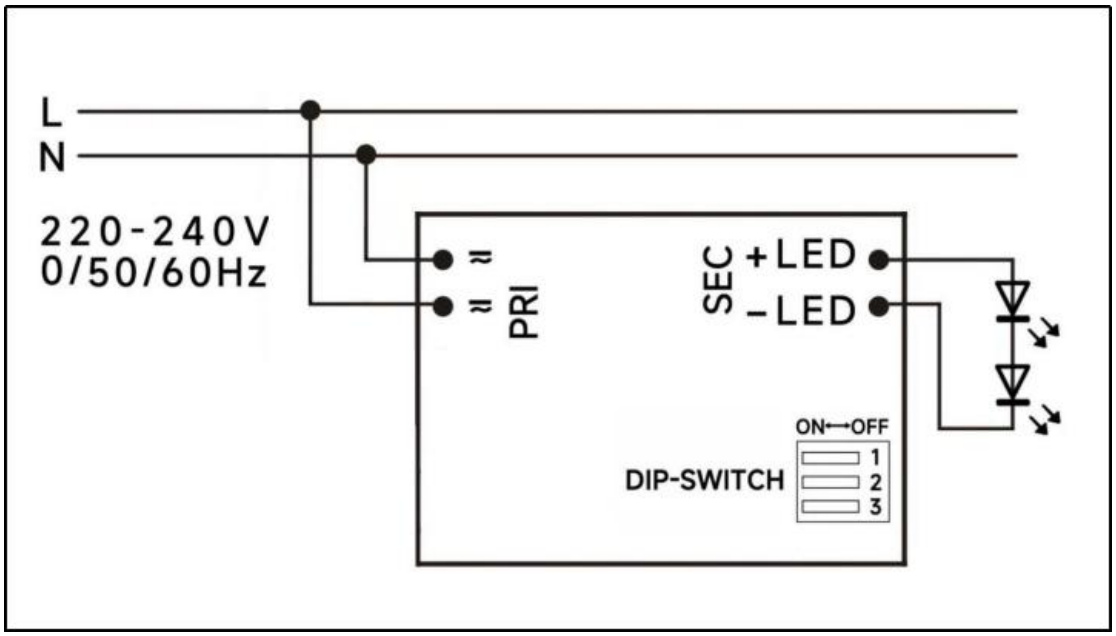
Note	1.All parameters NOT specially mentioned are measured at 230VAC input , full load and 25℃ of ambient temperature. 2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor.

◆ Parameter

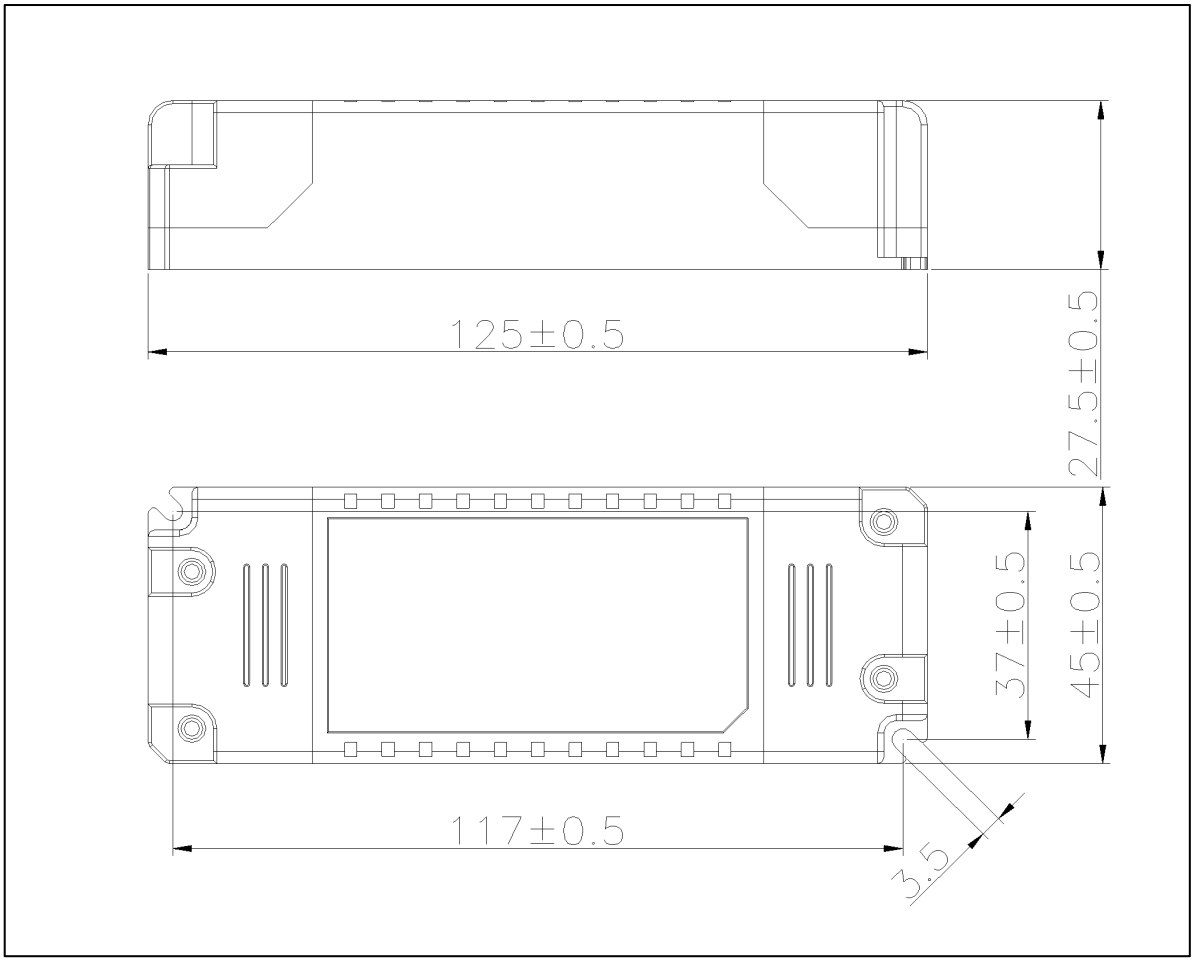
Number	Output				Switch position		
	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)	1	2	3
1	400mA	12-40VDC	50VDC	16W	--	--	--
2	450mA	12-40VDC		18W	--	--	ON
3	500mA	12-40VDC		20 W	ON	--	--
4	550mA	12-36.5VDC		20.1 W	--	ON	--
5	600mA	12-33.5VDC		20.1W	--	ON	ON
6	650mA	12-31VDC		20.2 W	ON	ON	--
7	700mA	12-29VDC		20.3W	ON	ON	ON

* Factory default

◆ Wiring diagram



2D diagram

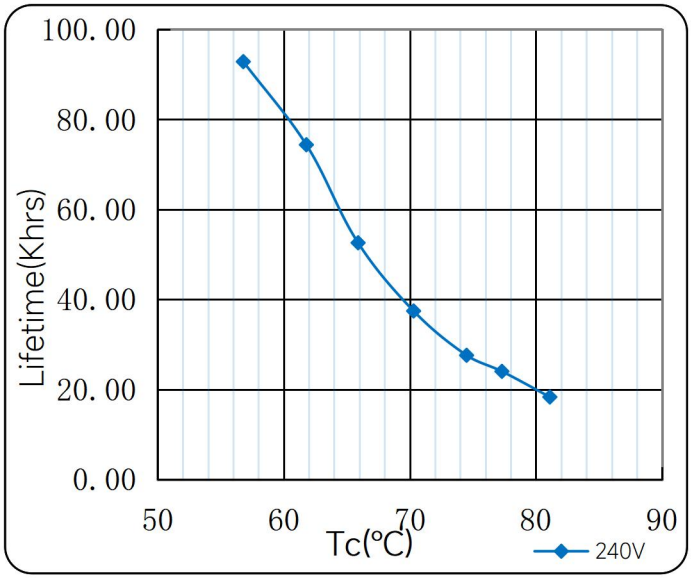


◆ Wiring & Connections

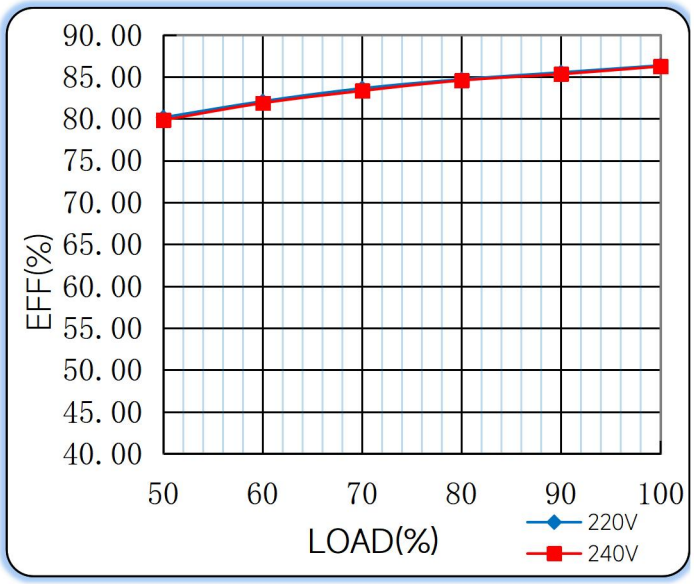
Specification item		Value （Unit ）
Input	Input wire cross-section	0.5...1.5 mm2
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm2
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

Curve for FLS-20-700 0-10 LA, Io=700mA

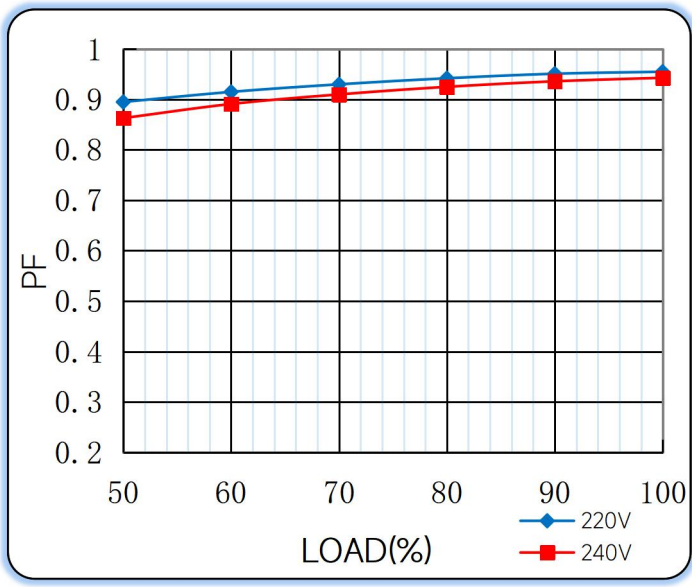
Lifetime vs. Temperature Curve



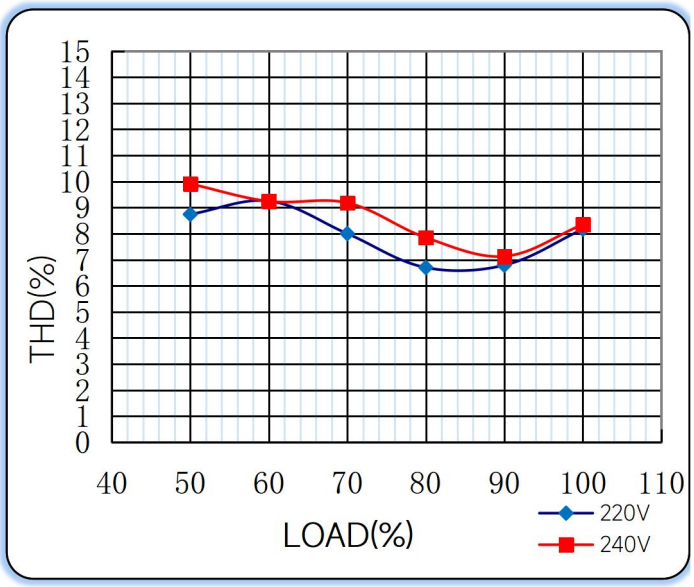
Efficiency vs. Load



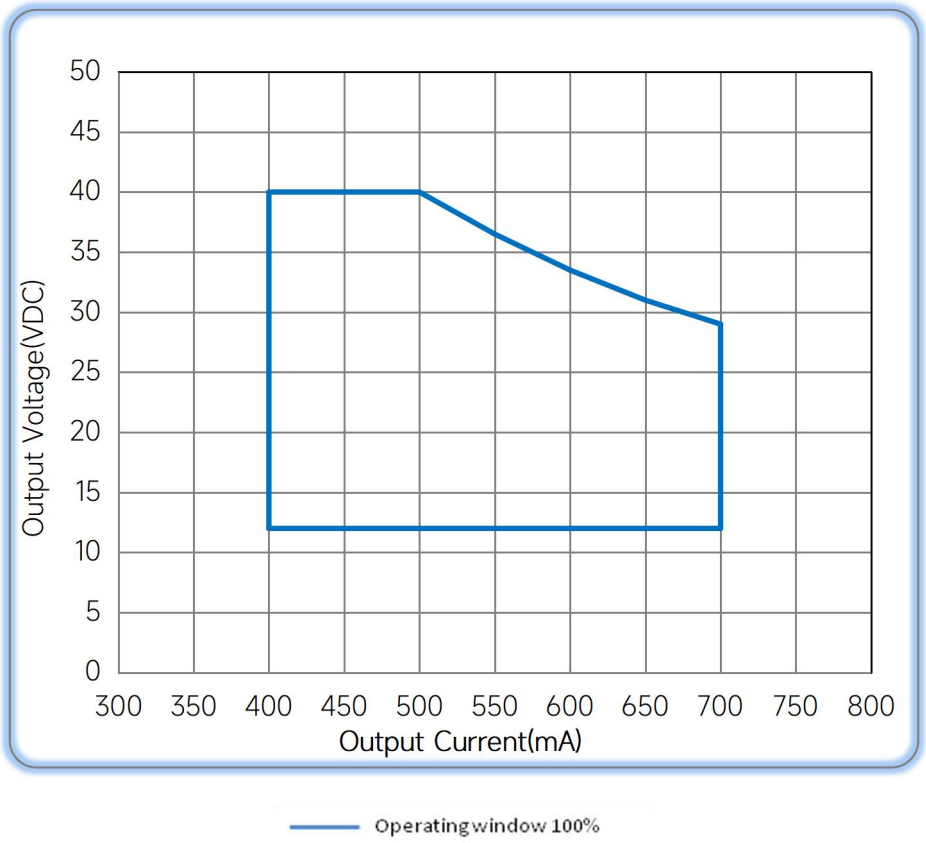
Power Factor Characteristics



THD vs. Load



Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/05/15

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