

21W Constant Current power supply



■ Approve

IS 15885(PART 2/SEC 13)

*current see Note



R-41050962
www.bis.gov.in
made in china

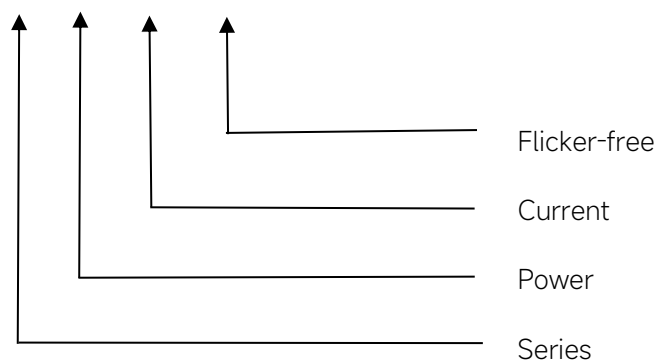
SELV

◆ Description

LS-21-XXX S11 E is a 21W constant current LED driver with 250~700mA output current. With it's compact dimensions from 92 x 36 x 25 mm it is easy to integrate in LED panel、LED down light、LED spot light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code

LS-21-XXX S11 E



Features

- Class II, SELV, Independent
- Input Voltage: 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor: 0.55C
- Efficiency: ≥85%
- 5 years warranty
- IP20

Applications

- LED panel、LED down light
- LED spot light

◆ Specification

Output	Constant Current (mA)	250	300	350	...	700
	Voltage Range(VDC)	50-80	40-70	42-60	...	18-30
	Unload voltage Max.	95	90	80	...	50
	Current Accuracy	±5%				
	Output HF current ripple(≥1KHz)	±5%				
	Output LF current ripple(≤120Hz)	±5%				
	SVM	≤0.4				
	P _{st}	≤1				
	Efficiency(Typ.)	≥85%@Full load,230V				
Input	Rated input voltage	220-240VAC				
	Range of input voltage	198-264VAC				
	Frequency(Hz)	50/60 Hz				
	Displacement factor	≥0.7				
	Power Factor	0.55C@Full load,230V				
	Input Current max	0.3A				
	Start-up time	< 0.5S				
	No Load Power	≤0.5W				
Protection	Over Load Protection	103-120% YES/Auto Resume				
	Over Voltage Protection(VDC)	95	90	80	...	50
	Short circuit Protection	YES/Auto Resume				
	Over Temperature Protection	YES/Auto Resume				
	Operating Temperature	-20°C~+45°C				
Environment	Humidity	20%-90%RH				
	Tc	80°C				
	Storage Temperature	-25°C~+60°C				
	Life time	> 30,000h@tc=75°C; > 60,000h@tc=65°C				
	Surface	Dimension	92x36x25 (LxWxH)mm			
standards	GB 19510.1,GB 19510.14;IS 15885 (Part 2/Sec13)					
Others	ErP	EU 2019/2020				
	RoHS	RoHS (2011/65/EU) (EU)2015/863				
Note	<ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at 230VAC input , full load and 25°C of ambient temperature. Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor. Data are typical values obtained from test samples Switch and dimmer are not recommended to connect between this product output and luminaries. The series BIS certification includes 500、600mA. 					

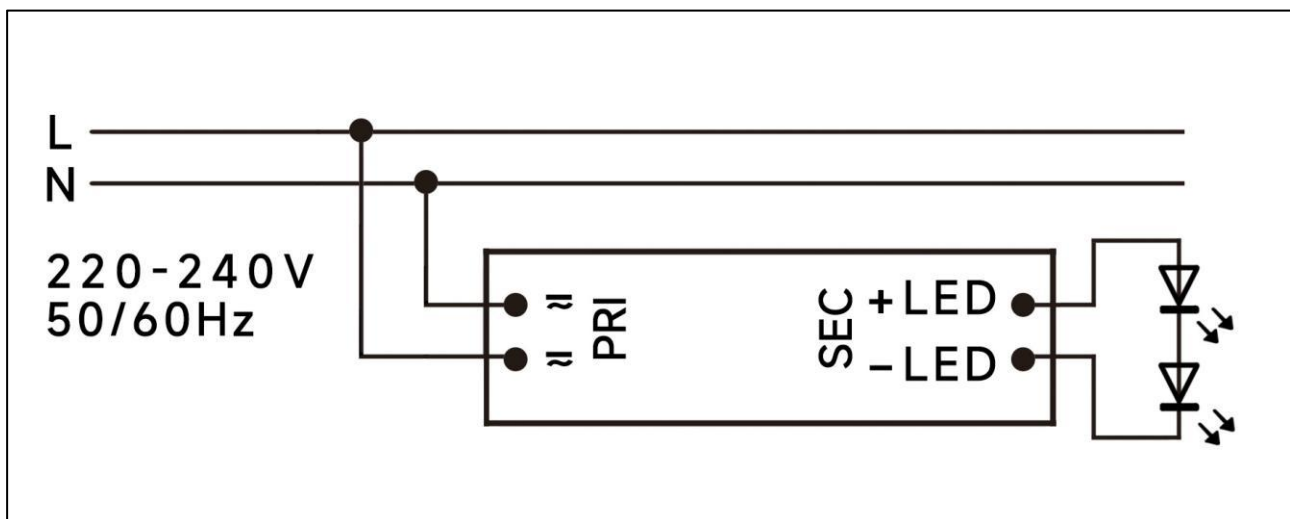
◆ Model list

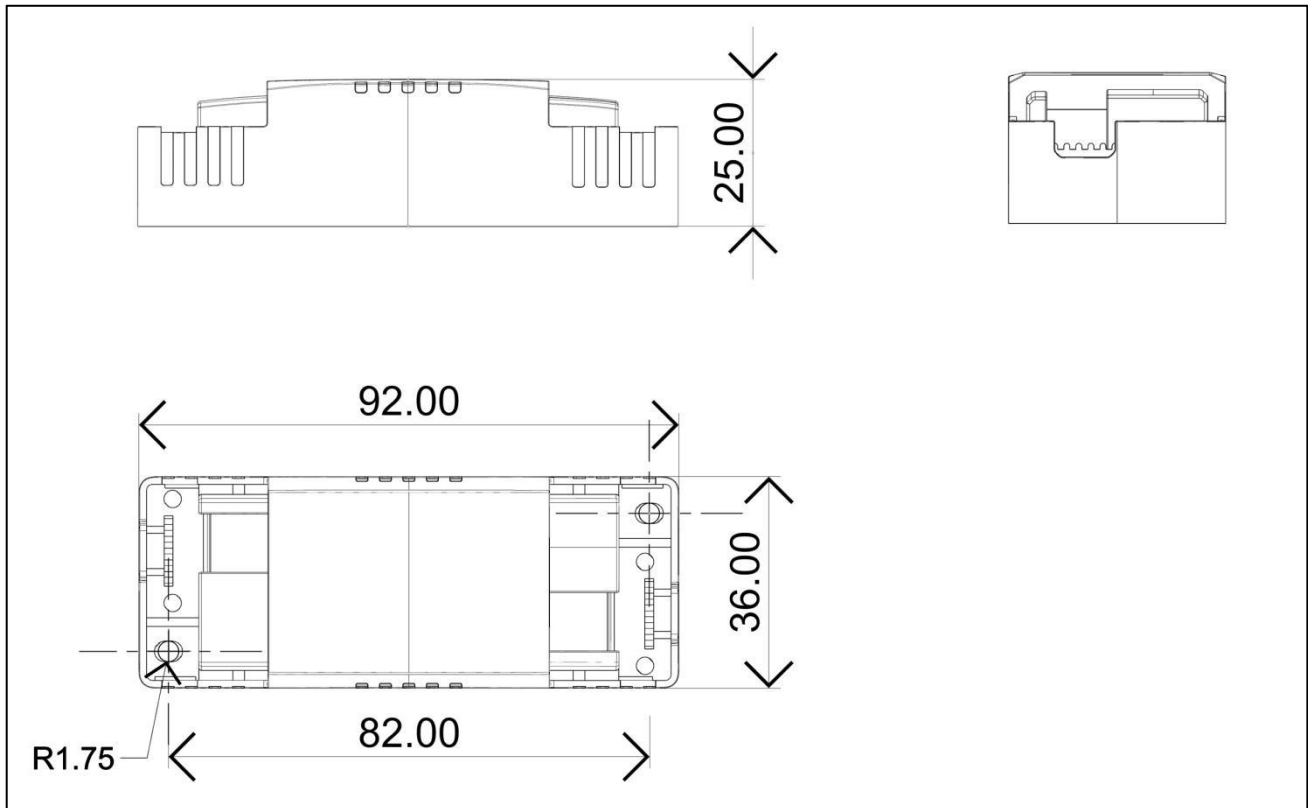
Number	Model number	Output			
		Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)
1	LS-21-250 S11 E	250	50-80	95	20
2	*LS-21-300 S11 E	300	40-70	90	21
3	*LS-21-350 S11 E	350	42-60	80	21
4	*LS-21-400 S11 E	400	27-42	55	16.8
5	*LS-21-450 S11 E	450	27-42		18.9
6	*LS-21-500 S11 E	500	27-42		21
7	*LS-21-550 S11 E	550	27-40		22
8	*LS-21-600 S11 E	600	27-39		23.4
9	*LS-21-650 S11 E	650	20-32	50	20.8
10	*LS-21-700 S11 E	700	18-30	50	21

◆ Circuit Breaker

I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
27.7A	103.2μs	26pcs	42pcs	53pcs	26pcs	42pcs	53pcs

◆ Wiring diagram

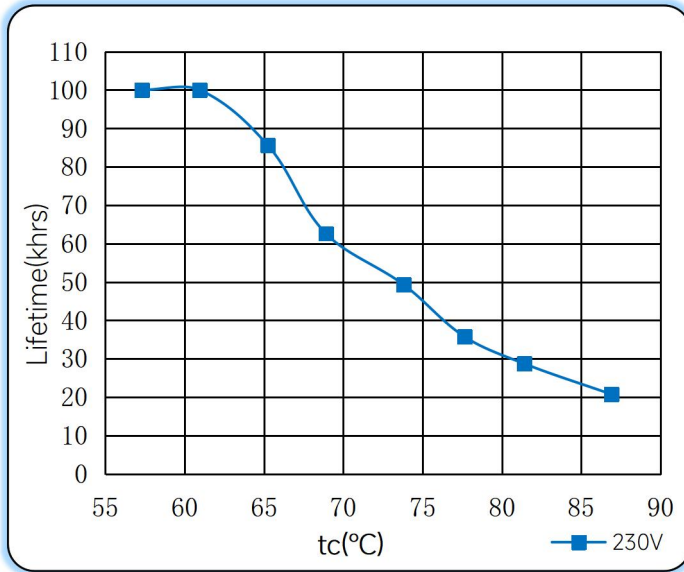


◆ 2D diagram

◆ Wiring & Connections

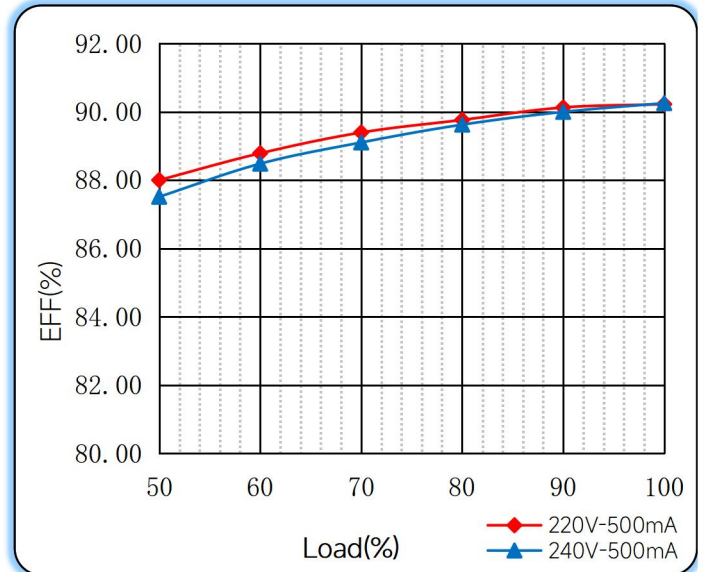
Specification item		Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ²
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

◆ **Curve for LS-21-XXX S1 E, I_o=500mA**

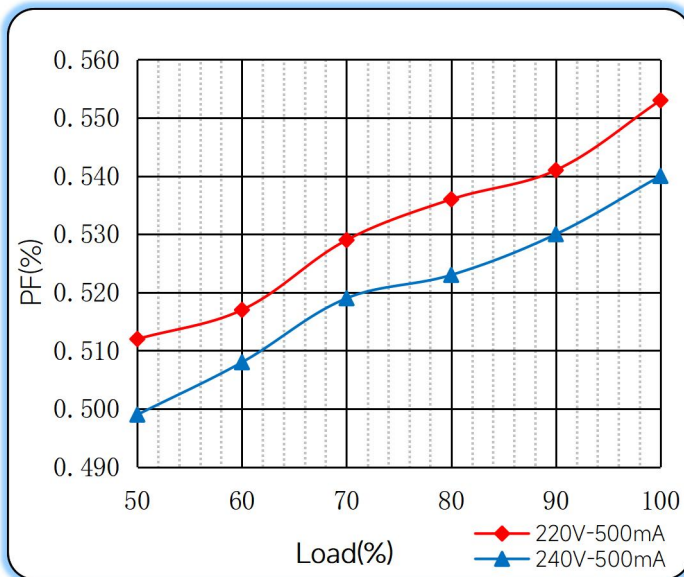
Lifetime vs. Temperature Curve



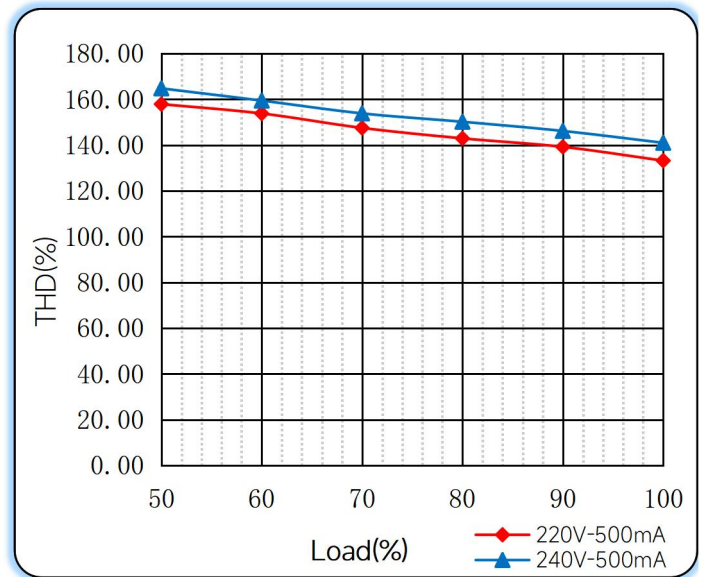
Efficiency vs. Load



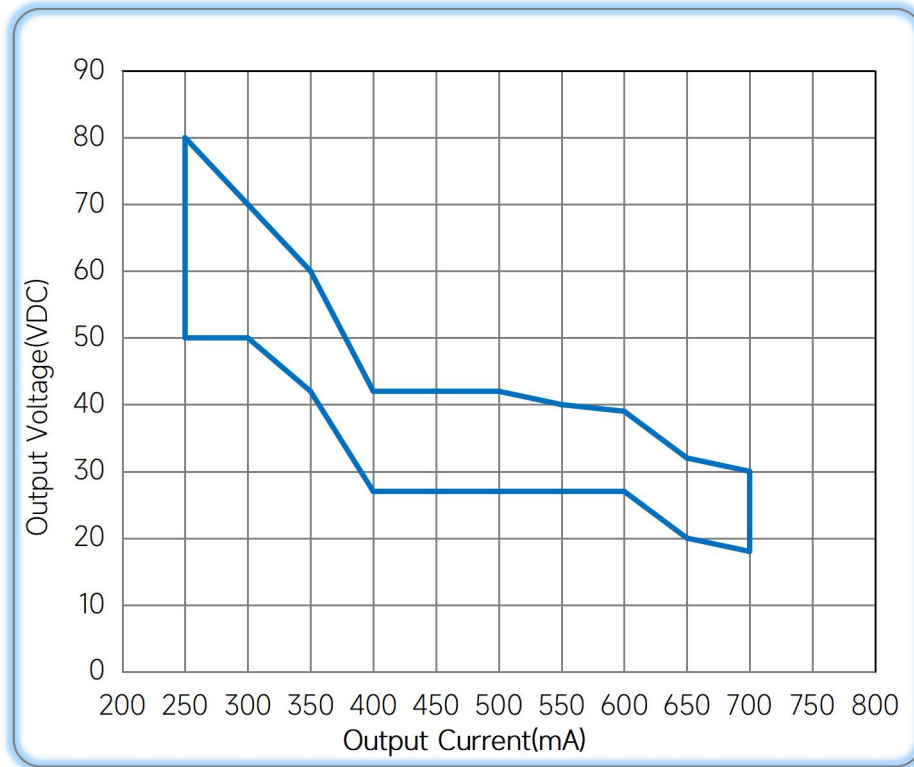
Power Factor Characteristics



THD vs. Load



◆ Operating window



— Operating window 100%

◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/08/09

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Manual