Constant Voltage LED Power Supply SLT100-24VLG-E





Product description:

This type of power supply is an exclusively designed stabilized power supply for LED lamp. With constant voltage (CV) technology, it is suitable for constant voltage lamps (24V) connected in parallels. As an advantage of constant voltage (CV) technology, a switch can be installed between secondary side and lamps. The built-in protection circuit will shut down the power supply in case of such faults as: open circuit, short circuit, over load. The power supply will restart automatically after fault correction.

In over temperature protection, the power supply will break down in case of interior or exterior temperature exceed.

Standards:

EN61347-1

EN61347-2-13

EN61547

EN55015

EN61000-3-2

EN61000-3-3

EN62384

EN62493

Comply with EN60335-1, EN60335-2-24, EN60335-2-89

Characteristics:

- Independent power supply for constant voltage LED lamp
- Class II protection against electric shock from direct and indirect contact
- Start-up time ≤0.5s
- Meet L-N 1KV surge immunity level
- No load power consumption≤0.5W
- Open circuit, short circuit, over load protection
- Auto restart after removal of fault conditions (except OTP)
- ECO design, comply with ERP directives
- Warranty : 5 Years

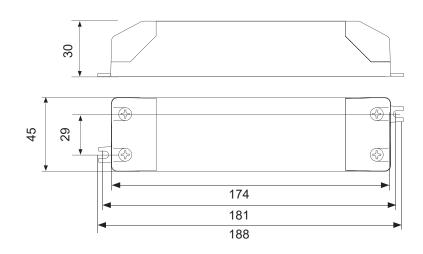


Specifications:

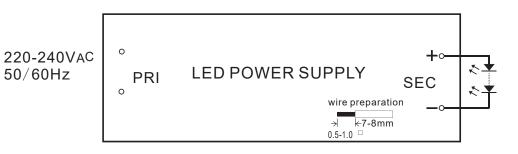
Model		SLT100-24VLG-E				
	turn on time(S) 🤨	≤0.5				
	output power(W) ⁰	100				
	output votage(V)	24				
	output voltage tolerance 😕	+/-5%				
Output	ripple voltage	400mVp-p				
_	working current range(A)	0-4.16				
	output safety rating	SELV				
	dimming interface	Allowed PWM controller, up frequency to 4.5KHz, without audio noise				
	dimming range	n/a				
	rated supply voltage(Vac)	220-240				
	voltage range(Vac)	198-264				
	line frequency(Hz)	50/60				
	input current(mA)	500				
Input	input power(W) ⁰	108				
	efficiency 😣	92.0%				
	average efficiency ³	89.0%				
_	no load power consumption(W) [•]	≤0.5				
_	power factor ⁶	0.95				
_	THD ⁶	≤10%				
	inrush current(lpk)	120A/200uS				
	input over voltage protection	n/a				
	short circuit protection	In case of a short circuit on the secondary side, the ECG will switch off.				
Protection	over temperature protection	ECG break down off if the temperature reaches a certain degree.				
	over load protection	ECG works in pulsed light output mode.				
	automatic restart	Auto restart after removal of fault conditions (except OTP)				
	surge capacity	L-N: 1KV				
_	Ta(Ċ)	-20+45				
Ambient	Tc max.(Ċ)	90				
and Life	nominal life-time(hrs)	50000h@Tc				
_	Storage Temperature(C)	-3080				
	ambient humidity range	5%85%, Not condensing				
_	weight(g)	330				
_	dimensions (L×W×H)(mm)	188×45×30				
Other	casing material	plastic				
Oner	housing colour	White housing+blue end cap				
	connecting method	Terminal block				
_	type of protection	IP20				
	protection class	ClassII				
Note	 At 230Vac,50Hz,full load. Tolerance:includes set up tolerance,line regulation and load regulation. At 230Vac,50Hz,full load.Refer to EFFICIENT Power Factor and THD curve graphs. Calculate the model's average efficiency for each test voltage by testing at 100%, 75%, 50%, and 25% of rated current and then computing the simple arithmetic erage of these four values. 					



Dimensions(mm):



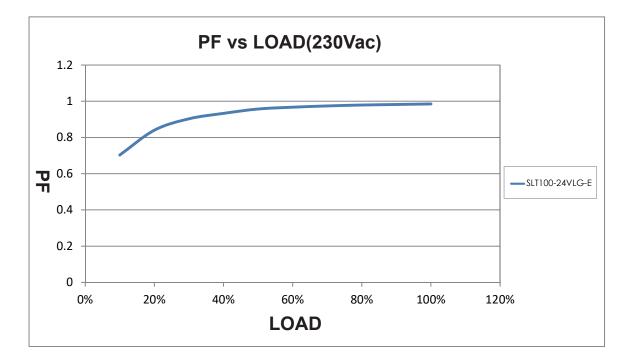
Wiring diagram:

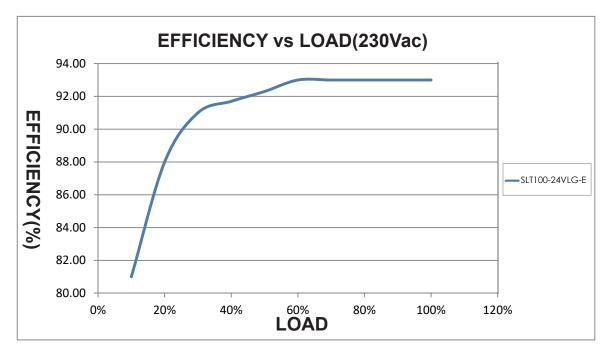




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Electrical curves:





note

For constant current power supply,"LOAD" means the percentage of the maximum rated output voltage. For constant voltage power supply,"LOAD" means the percentage of the maximum rated output current.



MCBS information:

Miniature circuit breaker Model Model	B10	B13	B16	B20	C10	C13	C16	C20
SLT100-24VLG-E	3	4	5	7	5	7	9	11

Order information:

Order.No.	Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)	
1001-610206-0130	SLT100-24VLG-E	32	405x215x180	9.2	

Sales & Technical Support:

SELF Electronics Co.,Ltd.(Headquarters)

Add: No. 1345 JuXian Road,Ningbo Hi Tech Park, Ningbo,China 315103 Phone: +86-574-2880-5765, +86-574-2880-5658 (for English assistance) +86-574-2880-5678 (for Chinese assistance) Fax: +86-574-28805656

E-mail:sales@self-electronics.com http://www.self-electronics.com

SELF Electronics Germany GmbH

August-Horch-Str. 7,51149 Cologne Phone: +492203-18501-0 Fax: 492203-18501-199 E-mail: saleseu@self-electronics.com

SELF Electronics Co., Ltd., Shenzhen Office

Add: Room2007, Xinglang Xuan, Xinghemingju, Fuming Rd., Futian District, Shenzhen Tel: +86-755-8355-8850 Fax: +86-755-8355-8840 E-mail: szsales@self-electronics.com

