

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 parallel. 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

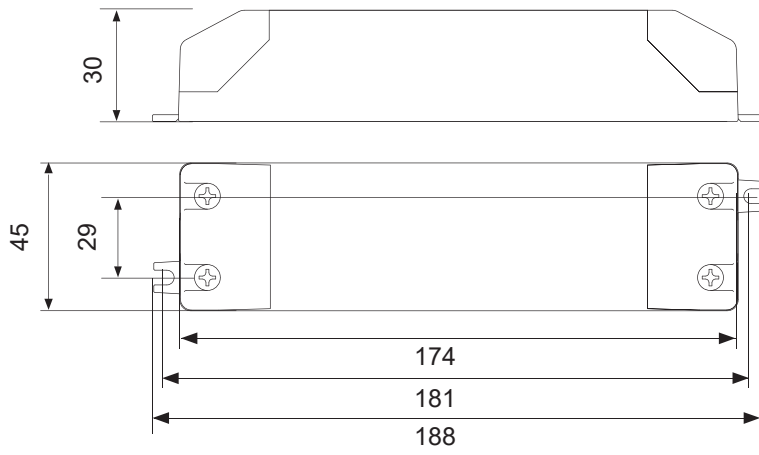
Characteristics:

- Independent power supply for constant voltage LED lamp
- Class II protection against electric shock from direct and indirect contact
- Start-up time $\leq 0.5s$
- Meet L-N 1KV surge immunity level
- No load power consumption $\leq 0.5W$
- 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

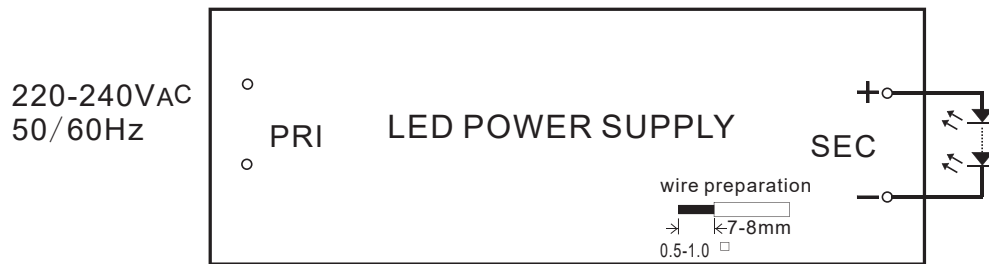
Specifications :

Model		SLT100-24VLG-E
Output	turn on time(S) ¹	≤0.5
	output power(W) ¹	100
	output voltage(V)	24
	output voltage tolerance ²	+/-5%
	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
Input	rated supply voltage(Vac)	220-240
	voltage range(Vac)	198-264
	line frequency(Hz)	50/60
	input current(mA)	500
	input power(W) ¹	108
	efficiency ³	92.0%
	average efficiency ⁴	89.0%
	no load power consumption(W) ¹	≤0.5
	power factor ³	0.95
	THD ³	≤10%
	inrush current(Ipk)	120A/200uS
Protection	input over voltage protection	n/a
	short circuit protection	In case of a short circuit on the secondary side,the ECG will switch off.
	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	
Ambient and Life	Ta(°C)	-20...+45
	Tc max.(°C)	90
	nominal life-time(hrs)	50000h@Tc
	Storage Temperature(°C)	-30...80
	ambient humidity range	5%...85%. Not condensing
Other	weight(g)	330
	dimensions (LxWxH)(mm)	188x45x30
	casing material	plastic
	housing colour	White housing+blue end cap
	connecting method	Terminal block
	type of protection	IP20
	protection class	ClassII
Note	<p>1. At 230Vac,50Hz,full load.</p> <p>2. Tolerance:includes set up tolerance,line regulation and load regulation.</p> <p>3. At 230Vac,50Hz,full load.Refer to EFFICIENT Power Factor and THD curve graphs.</p> <p>4. 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.</p>	

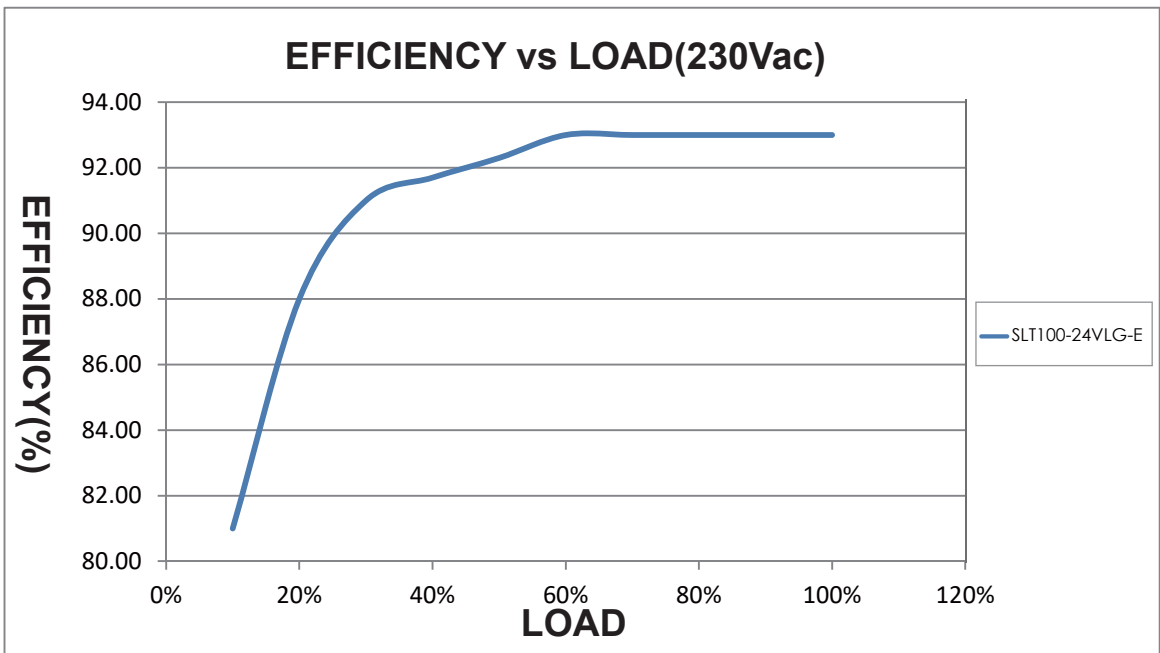
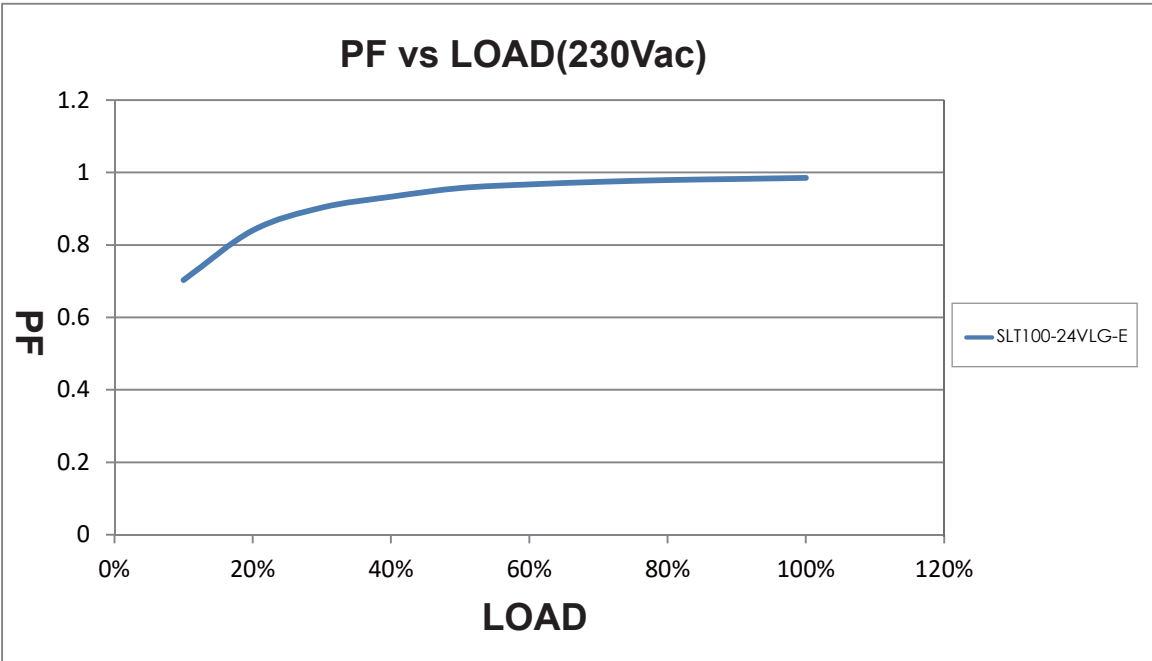
Dimensions(mm):



Wiring diagram:



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	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 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

SELF Electronics Germany GmbH

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