Constant Voltage LED Power Supply

SLT20-12VFC-1 SLT20-24VFC-1



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 (12/24V DC) connected in parallels. As an advantage of constant voltage (CV) technology.

The built-in protection circuit will shut down the power supply in case of such faults as: open circuit, short circuit, over load or over temperature. The power supply will restart automatically after fault correction.



Standards:

EN61347-1

EN61347-2-13

EN61547

EN55015

EN61000-3-2

EN61000-3-3

EN62384

EN62493

Characteristics:

- Independent power supply for constant voltage LED lamp
- Special design screw terminal for field connection
- New harmonic requirements meet
- Class II protection against electric shock from direct and indirect contact
- SELV outpu
- Open circuit, short circuit, over load and over temperature protection
- Auto restart after fault conditions removal
- Quiet design, working noise is less than 20dB
- No load power consumption≤0.5W
- Efficiency≥81% (AC230V,full load)

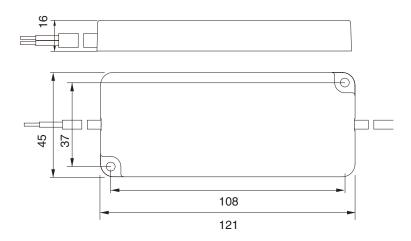


Specifications:

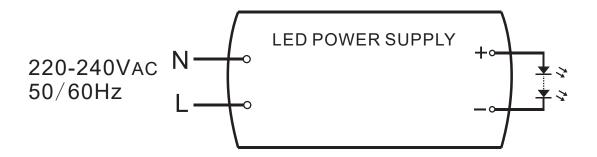
Model		SLT20-12VFC-1	SLT20-24VFC-1					
	turn on time(S)	≤0.5	≤0.5					
	output power(W)	20	20					
	output votage(V)	12	24					
_	output voltage tolerance	±3%	±3%					
Output	ripple voltage(mV)	900(Vp-p)	1200(Vp-p)					
	working current range(A)	0-1.67	0-0.84					
	dimming interface	No						
	dimming range	n/a						
	rated supply voltage(Vac)	220-240	220-240					
	voltage range(Vac)	198-264	198-264					
Input	line frequency(Hz)	50/60	50/60					
	input current(mA)	130	130					
	efficiency 2	≥82%@full load	≥83%@full load					
	average efficiency €	≥80%	≥81%					
	no load power consumption(W)	≤0.5	≤0.5					
	power factor ²	≥0.85C@full load	≥0.85C@full load					
	inrush current(Ipk)	15A/100uS	15A/100uS					
	over voltage protection	YES	YES					
Protection	short circuit protection	YES	YES					
	over temperature protection	YES	YES					
	automatic restart	YES	YES					
	over load protection	YES	YES					
	surge capacity	L-N: 500V	L-N: 500V					
	Ta(℃)	-2045	-2045					
	Tc max.(℃)	90	90					
Ambient	Storage Temperature ($^{\circ}$)	-3080						
and Life	ambient humidity range	5%85%, Not condensing						
	nominal life-time(hrs)	30'000@Tc=90 C						
	weight(g)	70	70					
	dimensions (L×W×H)(mm)	121x45x16						
Other	casing material	Plastic						
Olliei	housing colour	Grey+Blue						
	type of protection	IP44						
	protection class	ClassII						
Note	1. Tolerance:includes set up tolerance, line regulation and load regulation. 2. Tested at full load,230Vac.Refer to "Power Factor" and "EFFICIENT" curve graphs. 3. 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. 4. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 of ambient temperature. 5. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-gualify EMC Directive on the complete installation again.							



Dimensions(mm):

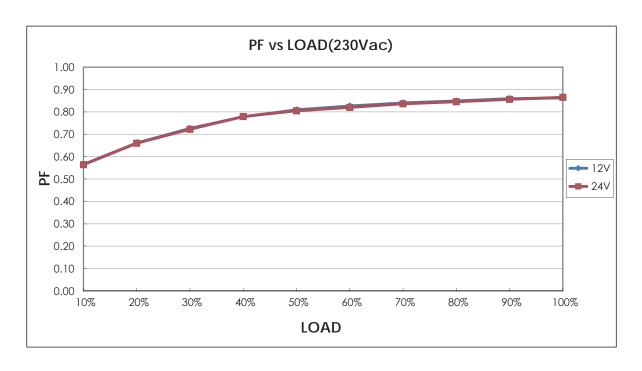


Wiring diagram:





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 Model	B10	B13	B16	B20	C10	C13	C16	C20	
SLT20-12VFC-1 SLT20-24VFC-1	50	65	80	100	57	75	92	115	

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