

Constant Current LED Power Supply

FCC linear series

SLT160-700IL-EU



Product description:

This type of power supply is an exclusively designed stabilized power supply for LED lamp. With constant current (CC) technology, it is suitable for constant current lamps connected in a series. According to the switches selection, the output current can change from 350mA to 700mA. The current step is 50mA.

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
EN50172

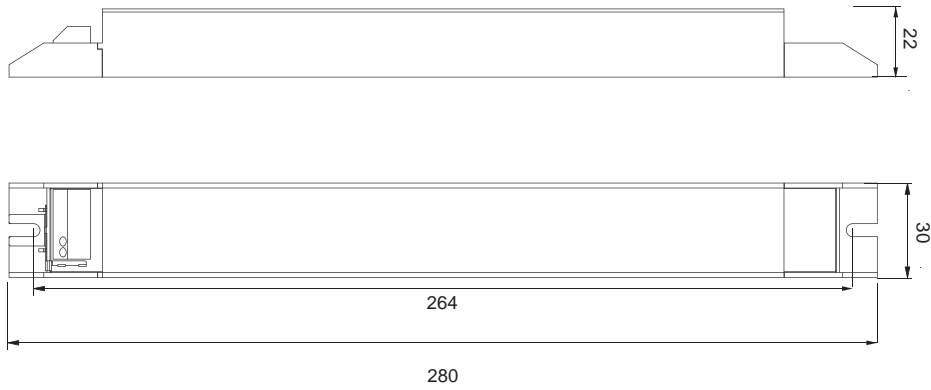
Characteristics:

- Built-in power supply for constant current LED lamp
- Push in terminal block for quick connection
- With function ground terminal suitable for Class I application
- Non-isolated design has high performance cost ratio
- Multi output current with Dipswitch optional current from 350mA-700mA
- Ripple free
- Start-up time $\leq 0.5s$
- Open circuit, short circuit, over load and over temperature protection
- Auto restart after fault conditions removal
- Warranty 5 years

Specifications:

Model		SLT160-700IL-EU
Output	turn on time(S)	≤0.5
	output current(mA)	350/400/450/500/550/600/650/700
	output current tolerance ^①	+/-10%
	ripple current(mA) ^③	≤3%(I _{p-p})
	working voltage range(V)	120-228
	maximum working voltage(V)	420
	dimming interface	No
	dimming range	n/a
Input	rated supply voltage(Vac)	220-240
	voltage range(Vac)	198-264
	line frequency(Hz)	50/60
	input current(mA)	900
	efficiency ^②	95.0%
	power factor ^②	0.95
	inrush current(I _{pk})	≤80A/130μS
Protection	over voltage protection	320V 1h
	short circuit protection	YES
	over temperature protection	YES
	automatic restart	YES
	over load protection	YES
	surge capacity	L-N: 1KV L,N-PE: 2KV
Ambient and Life	T _a (°C)	-20...50
	T _c max. (°C)	90
	audible noise(dB)	25
	Storage Temperature(°C)	-30...80
	ambient humidity range	5%...85%RH, Not condensing
	nominal life-time(hrs)	50'000@T _c =50 C
Other	weight(g)	237
	dimensions (LxWxH)(mm)	280x30x22
	casing material	plastic
	housing colour	grey
	type of protection	IP20
	protection class	Built-in
Note	<p>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.Output LF current ripple (< 200 Hz) 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-qualify EMC Directive on the complete installation again.</p>	

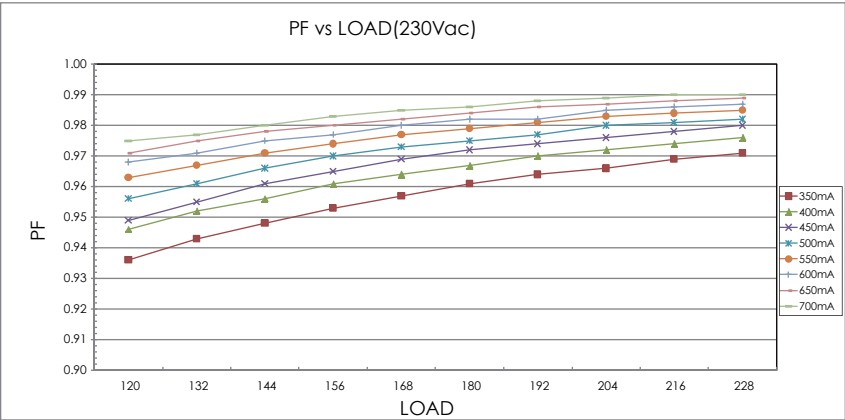
Dimensions(mm):



Wiring diagram:

INPUT	L	SLT160-700IL-EU LED POWER SUPPLY	•tc	warning: Power off before connecting the LED lamp and dipswitch settings Keep load-balanceing when connecting the led lamp in parallel	<table border="1"> <thead> <tr> <th>Iout</th> <th>V_o</th> <th>P_{omax}</th> <th>1</th> <th>2</th> <th>3</th> </tr> </thead> <tbody> <tr> <td>350mA</td> <td>120-228V</td> <td>80W</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>400mA</td> <td>120-228V</td> <td>91W</td> <td>-</td> <td>-</td> <td>ON</td> </tr> <tr> <td>450mA</td> <td>120-228V</td> <td>103W</td> <td>-</td> <td>ON</td> <td>-</td> </tr> <tr> <td>500mA</td> <td>120-228V</td> <td>114W</td> <td>-</td> <td>ON</td> <td>ON</td> </tr> <tr> <td>550mA</td> <td>120-228V</td> <td>125W</td> <td>ON</td> <td>-</td> <td>-</td> </tr> <tr> <td>600mA</td> <td>120-228V</td> <td>137W</td> <td>ON</td> <td>-</td> <td>ON</td> </tr> <tr> <td>650mA</td> <td>120-228V</td> <td>148W</td> <td>ON</td> <td>ON</td> <td>-</td> </tr> <tr> <td>700mA</td> <td>120-228V</td> <td>160W</td> <td>ON</td> <td>ON</td> <td>ON</td> </tr> </tbody> </table>	Iout	V _o	P _{omax}	1	2	3	350mA	120-228V	80W	-	-	-	400mA	120-228V	91W	-	-	ON	450mA	120-228V	103W	-	ON	-	500mA	120-228V	114W	-	ON	ON	550mA	120-228V	125W	ON	-	-	600mA	120-228V	137W	ON	-	ON	650mA	120-228V	148W	ON	ON	-	700mA	120-228V	160W	ON	ON	ON	wire preparation 18-9mm 0.5/1.0		OUTPUT
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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.

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*Due to continuous improvements and innovations,specifications are subjected to change without notice.