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integrating lighting technologies

Constant Current LED Power Supply

FCC linear series

SLT80-700IL-EU

pending pending

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 325mA to 700mA. The current step is 25mA.
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
- Plastic houseing with function ground
- Non-isolated design have high performance/cost ratio
- Quick connetion terminal for wire cross selection 0.75-1mm^2
- Selectable output current according to the dipswitch from 325-700mA
- Open circuit，short circuit，over load and over temperature protection
- Auto restart after fault conditions removal
- up to 94% efficiency
- Warranty:5years

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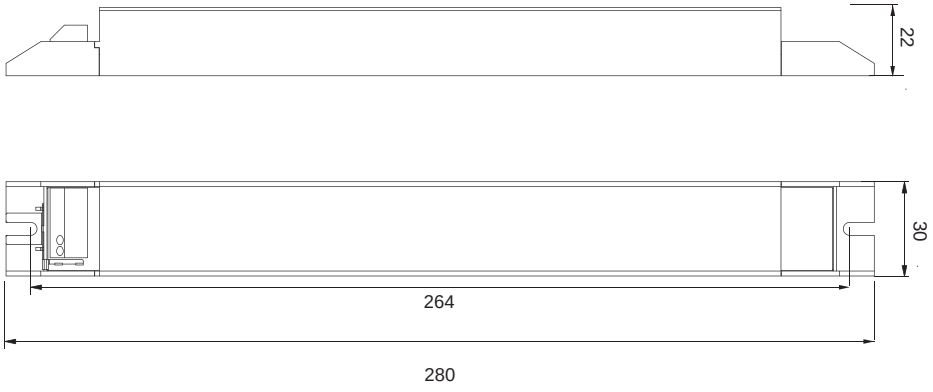
Specifications:

Model		SLT80-700IL-EU															
Output	turn on time(S)	≤0.5															
	output current(mA)	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700
	output current tolerance ①	+/-5%															
	output current regulation	±10%															
	ripple current(mA) ③	≤3%															
	working voltage range(V)	120-246	120-228	120-213	120-200	80-188	80-178	80-168	80-160	70-152	70-145	70-139	70-133	60-128	60-123	60-118	60-114
	Max. output 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)	410															
	efficiency ②	94.0%	93.9%	93.8%	93.6%	93.5%	93.4%	93.2%	93.0%	92.8%	92.6%	92.5%	92.5%	92.3%	92.2%	92.1%	92.0%
	power factor ②	0.90C															
	inrush current(Ipk)	40A/140us															
Protection	over voltage protection	n/a															
	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	Ta(℃)	-20--50															
	Tc max. (℃)	90															
	audible noise(dB)	25															
	Storage Temperature(℃)	-30...80															
	ambient humidity range	5%...85%RH, Not condensing															
	nominal life-time(hrs)	50'000@Tc=90℃															
Other	weight(g)	230															
	dimensions (LxWxH)(mm)	280x30x22															
	casing material	plastic															
	housing colour	grey															
	type of protection	IP20															
	protection class	Built-in															

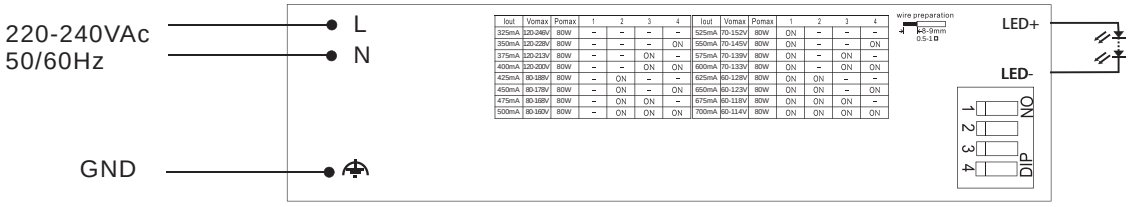
Note

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.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.

Dimensions(mm):



Wiring diagram:



Iout	Vomax	Pomax	1	2	3	4	Iout	Vomax	Pomax	1	2	3	4
325mA	120-246V	80W	–	–	–	–	525mA	70-152V	80W	ON	–	–	–
350mA	120-228V	80W	–	–	–	ON	550mA	70-145V	80W	ON	–	–	ON
375mA	120-213V	80W	–	–	ON	–	575mA	70-139V	80W	ON	–	ON	–
400mA	120-200V	80W	–	–	ON	ON	600mA	70-133V	80W	ON	–	ON	ON
425mA	80-188V	80W	–	ON	–	–	625mA	60-128V	80W	ON	ON	–	–
450mA	80-178V	80W	–	ON	–	ON	650mA	60-123V	80W	ON	ON	–	ON
475mA	80-168V	80W	–	ON	ON	–	675mA	60-118V	80W	ON	ON	ON	–
500mA	80-160V	80W	–	ON	ON	ON	700mA	60-114V	80W	ON	ON	ON	ON

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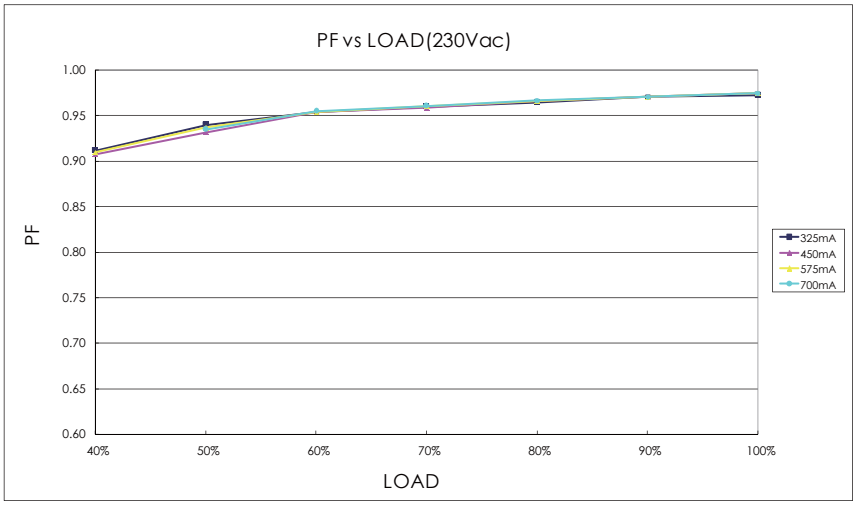
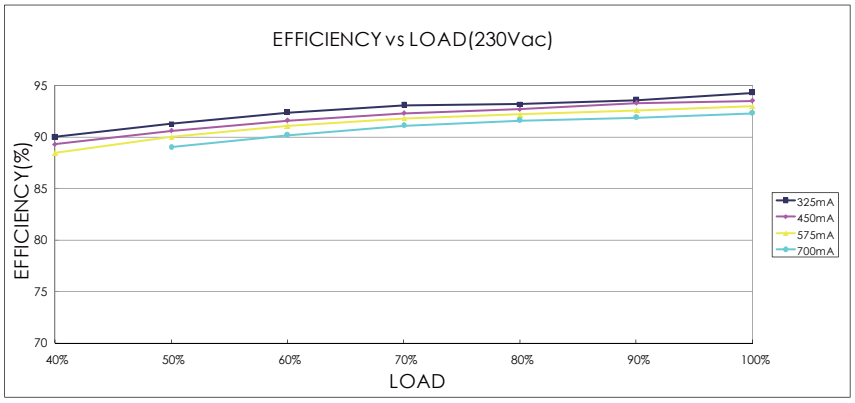
Electrical curves:





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.

Sales & Technical Support:

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