

LED power supply

Constant Current Dimming

SLD20-500IBA-UN1 (for build-in use)

SLD20-500ILA-UN1 (for independent use)



Standards:

EN61347-1
 EN61347-2-13
 EN61547
 EN55015
 EN61000-3-2
 EN61000-3-3
 EN62384
 EN62493
 UL1310
 FCC 15B
 EN62386:101,102,207 Version2

Product description:

This type of compact constant current power supply with 110-277Vac input voltage has very high efficiency and low power loss.

Designed with high power factor and ripple free, it can be used either built-in or independently. The output current can be set by the DIP switch, and the output current can be switched every 50mA from 150mA to 500mA.

With 0/1-10V dimming technology, this power supply can be dim from 1%-100%.

It conforms to SELV standard and the built-in protection circuit will shut down the converter in case of such faults as: open circuit, short circuit, over load, over temperature protection. The power supply will restart automatically after fault correction.

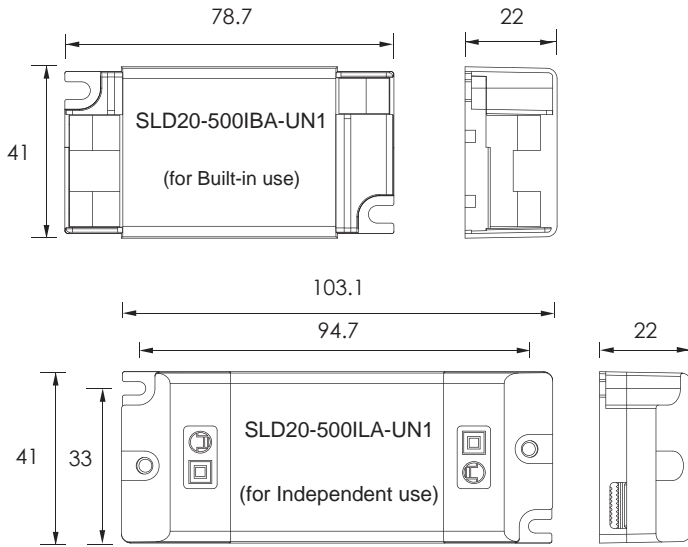
Characteristics:

- Independent or built-in power supply for constant current LED lamp
- Multipower driver supplied with dip-switch for the selection of the output current from 150-500mA
- Class II protection against electric shock for direct or indirect contact
- 1-100% dimming range by 0/1-10V
- Universal input voltage from 110-277V
- Push-in terminal block for quick connection
- It can be used for lighting equipment in protection class I and II
- Ripple free in all dimming range
- Start-up time $\leq 0.5S$
- Open circuit, short circuit, over load, over temperature protection
- Auto restart after fault conditions removal
- Warranty :5 Years

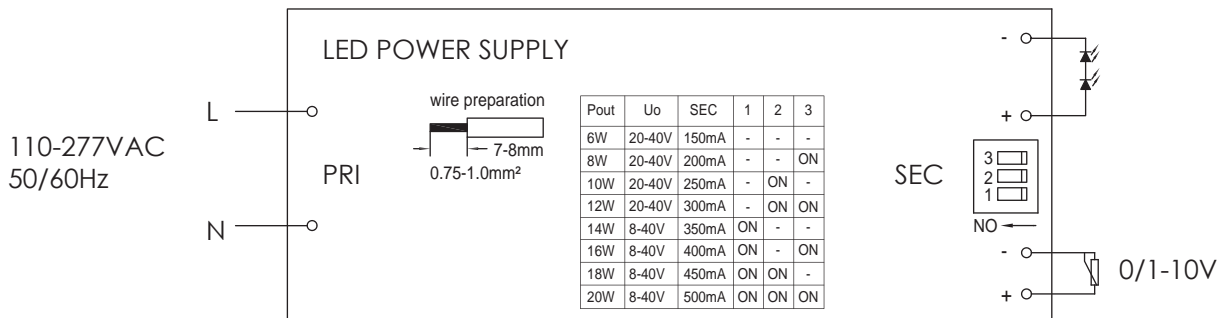
Specifications:

Model		SLD20-500IBA-UN1	SLD20-500ILA-UN1
Output	turn on time(S) ¹	≤0.5	
	output current(mA) ¹	150\200\250\300\350\400\450\500	
	output current tolerance ²	10%\10%\10%\10%5%\5%\5%\5%	
	ripple current(%) ³	40mA	
	working voltage range(V)	20-40(150mA-300mA),8-40(350mA-500mA)	
	output power range(W)	Max 6\8\10\12\14\16\18\20	
	Max. output voltage(V)	55	
	output safety rating	SELV/Class2	
	dimming interface	0/1-10V	
	dimming range	1%-100%	
Input	rated supply voltage(Vac)	110,120-277Vac	
	voltage range(Vac)	99-305Vac	
	line frequency(Hz)	50/60	
	input current(mA)	MAX 200mA	
	input power(W) ¹	Max24W	
	efficiency ¹	85% (max load)	
	power factor ¹	0.95 (max load)	
	THD ¹	less than 0.2	
	inrush current(Ipk) ¹	10A/40us	
Protection	input over voltage protection	320Vac,1 hours.	
	short circuit protection	yes	
	over temperature protection	yes	
	automatic restart	yes	
	surge capacity	L-N: 1KV	
Ambient and Life	Ta(°C)	-20...50	
	Tc max. (°C)	85	
	nominal life-time(hrs)	50'000@Tc	
	guarantee(years)	5	
	Storage Temperature(°C)	-30...80	
	ambient humidity range	5%...85%RH, Not condensing	
	audible noise(dB)	<25dBA tested@10cm	
Other	weight(g)	105g	
	dimensions (LxWxH)(mm)	Built-in: 66.7x41x22mm Independent: 85.3x41x22mm	
	casing material	Plastic	
	housing colour	White+Blue	
	connecting method	Terminal block	
	type of protection	IP20	
	protection class	ClassII	
Note	<p>1. At 230Vac,50Hz,full load. 2. Tolerance:includes set up tolerance,line regulation and load regulation. 3. At 230Vac,50Hz,LED load,below 200Hz</p>		

Dimensions(mm):



Wiring diagram:

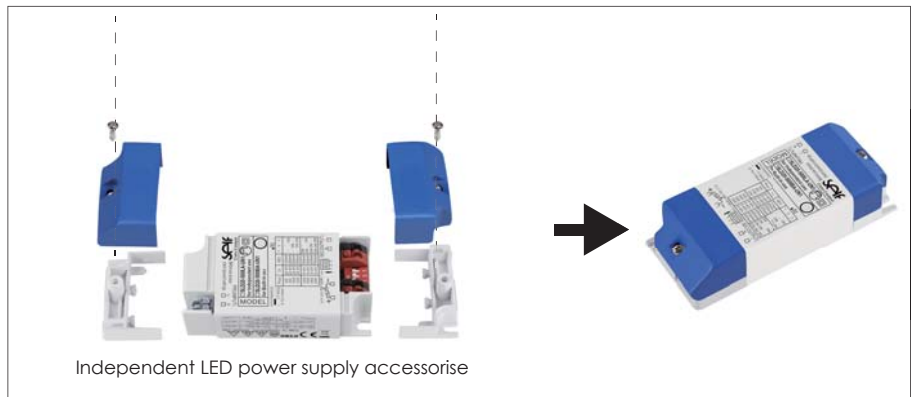


Application:

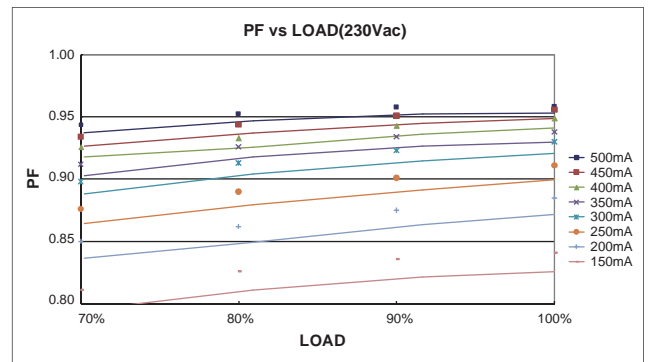
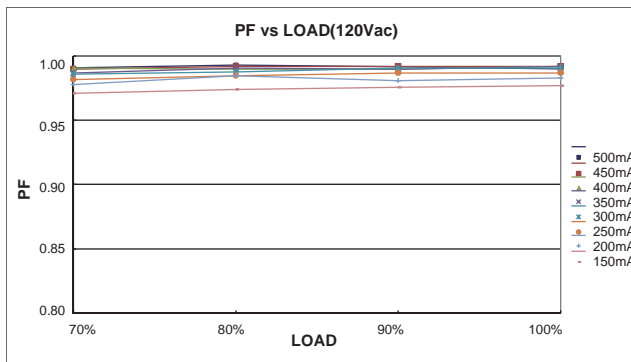
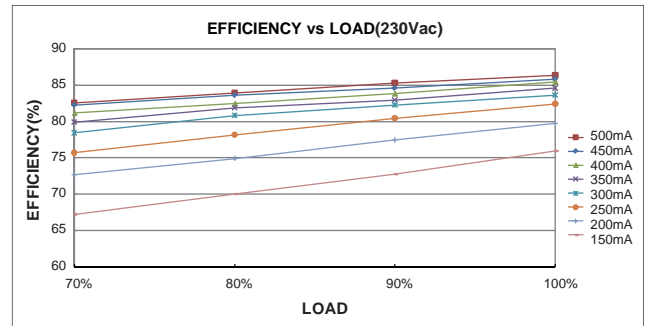
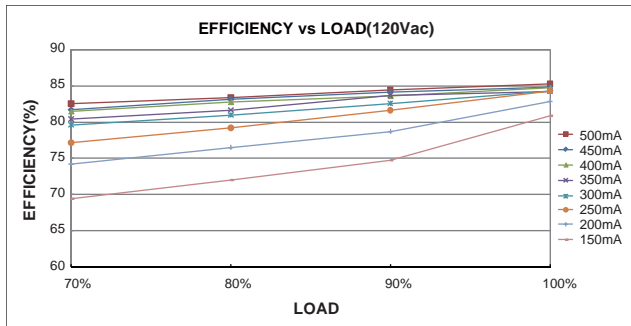
Built-in application



Independent application



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
SLD20-500IBA-UN1	31	41	50	62	51	62	85	100
SLD20-500ILA-UN1	31	41	50	62	51	62	85	100

Order information:

Order.No.	Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
1001-660342-0130	SLD20-500IBA-UN1	100	365x240x175	11.5
1001-260166-0130	SLD20-500ILA-UN1	100	465x255x150	12.5

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