

# 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.

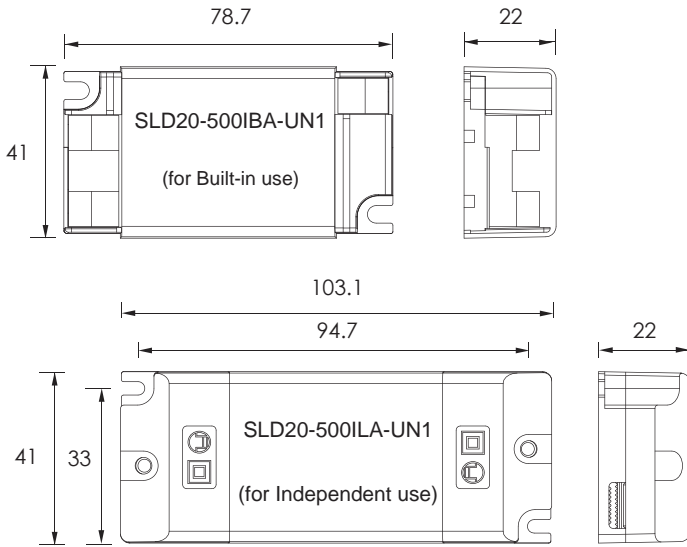
### Characteristics:

- 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

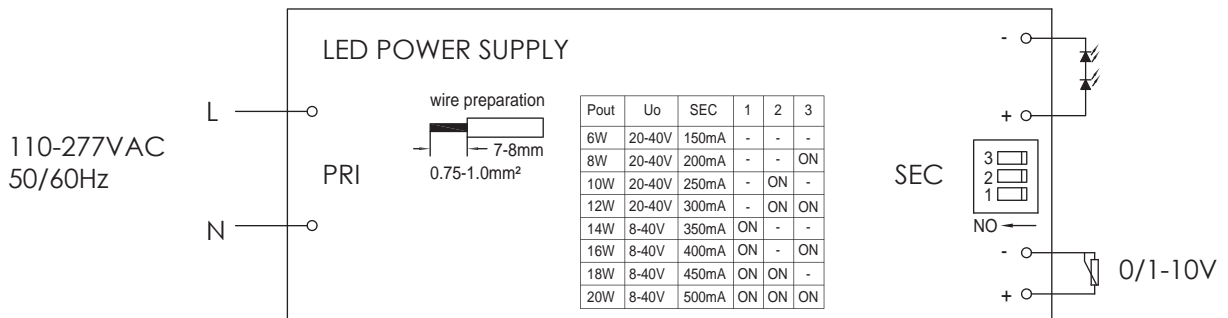
## Specifications:

Model		SLD20-500IBA-UN1	SLD20-500ILA-UN1
Output	turn on time(S) <sup>1</sup>	≤0.5	
	output current(mA) <sup>1</sup>	150\200\250\300\350\400\450\500	
	output current tolerance <sup>2</sup>	10%\10%\10%\10%5%\5%\5%\5%	
	ripple current(%) <sup>3</sup>	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) <sup>1</sup>	Max24W	
	efficiency <sup>1</sup>	85% (max load)	
	power factor <sup>1</sup>	0.95 (max load)	
	THD <sup>1</sup>	less than 0.2	
	inrush current(Ipk) <sup>1</sup>	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	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		

### Dimensions(mm):



### Wiring diagram:

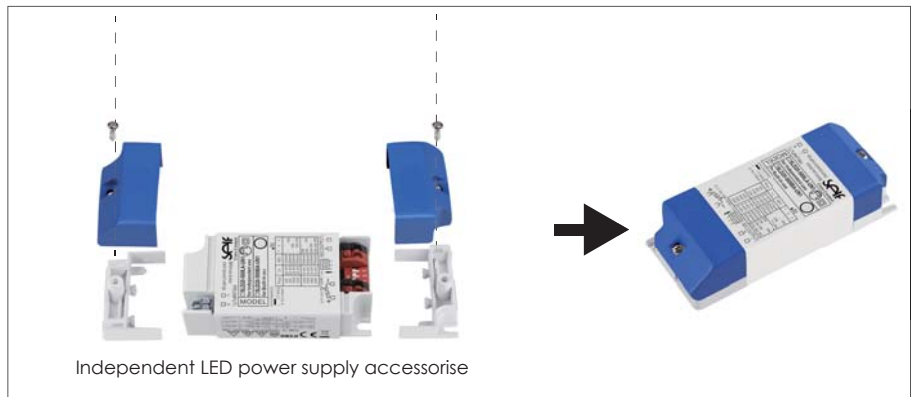


### Application:

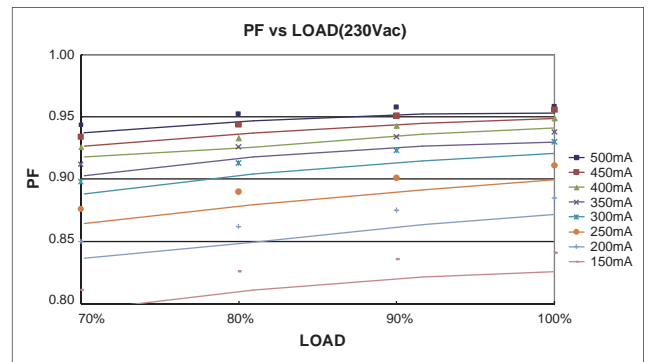
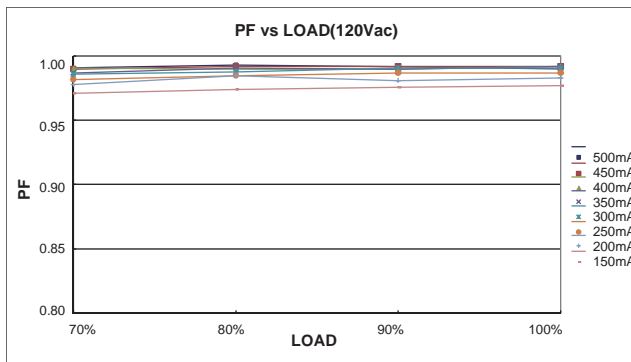
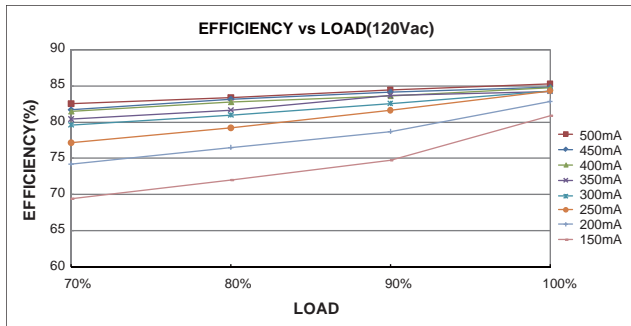
Built-in application



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

## Sales & Technical Support:

### **Self Electronics Co.,Ltd.**

Add: No. 1345 Ju Xian Road, Ningbo Hi Tech Park, Ningbo, China

Tel: 0086-574-28805765,28805658(For English Assistance)

0086-574-28805678 (For Chinese Assistance)

Fax: 0086-574-28805656

E-mail: sales@self-ecg.com

<http://www.self-ecg.com>

### **Self Electronics Co.,Ltd.,Shenzhen Office**

Add: Room2007,Xinglang Xuan,Xinghe Mingju,Fuming Road,Futian District,Shenzhen

Tel: 0086-755-83558850, 83558851

Fax: 0086-755-83558840

### **SELF ELECTRONICS GERMANY GMBH**

Add:August-Horch-Str. 7,51149 Koeln

Tel: 0049 2203 18501-0

Fax: 0049 2203 18501-199

E-mail: saleseu@self-electronics.com

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