

# LED power supply

## Constant Current Dimming

### Compact DALI2

SLD20-500IBD-UN  
SLD20-500ILD-UN



#### 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 newest DALI2.0 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. The power supply will restart automatically after fault correction.

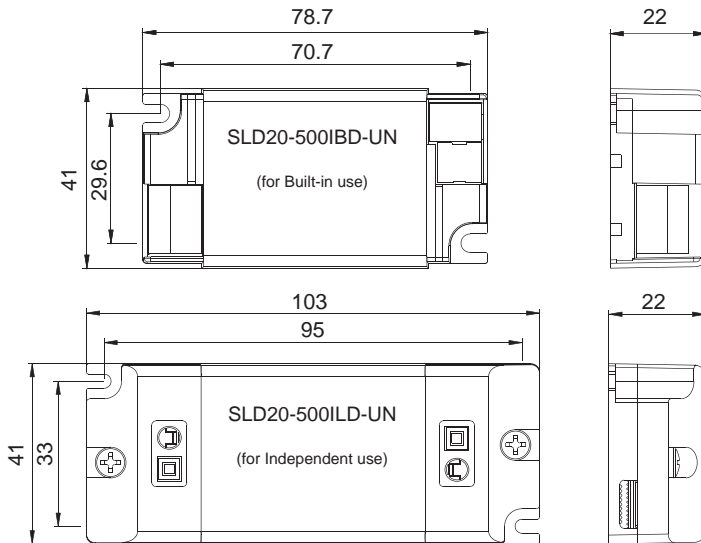
#### Characteristics:

- 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 DALI2
- 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 and over temperature protection
- Auto restart after fault conditions removal
- Warranty :5 Years

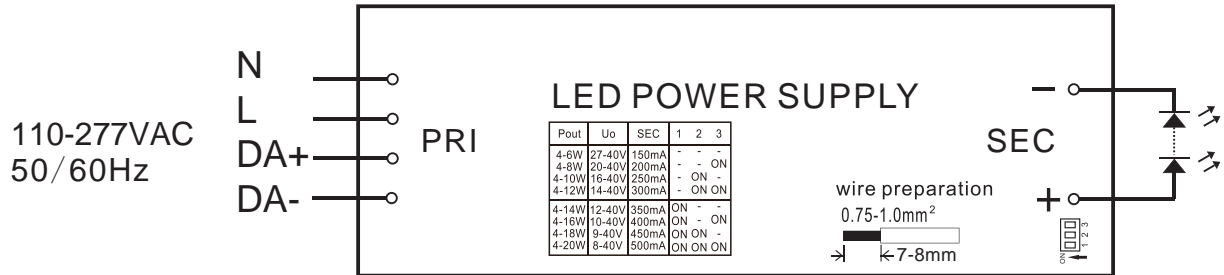
## Specifications:

Model	SLD20-500IB/LD-UN	
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>	+/-5%
	ripple current(%) <sup>3</sup>	≤3%
	working voltage range(V)	8-40 Refer to label
	output power range(W)	4-20 details refer to label
	Max. output voltage(V)	59
	output safety rating	SELV
	dimming interface	supplementary insulation DALI2.0 interface
	dimming range	1%-100% linear & exponent
Input	rated supply voltage(Vac)	110-277
	voltage range(Vac)	100-305
	DC voltage range(Vdc)	176-280
	line frequency(Hz)	0/50/60
	input current(mA)	Max 220
	input power(W) <sup>1</sup>	23.8
	efficiency <sup>1</sup>	84% (Refer to Electrical curves)
	power factor <sup>1</sup>	0.90C(Refer to Electrical curves)
	THD <sup>1</sup>	10%@230V@full load any current presetting
	inrush current(Ipk) <sup>1</sup>	20A/150uS
Protection	input 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
Ambient and Life	Ta(°C)	-25...+45 C @110V~120V&277V -25...+50 C @220V~240V
	Tc max. (°C)	90
	nominal life-time(hrs)	50000h@Tc=90 C
	ambient humidity range	5%...85%RH, Not condensing
	audible noise(dB)	24dBA tested@10cm
Other	weight(g)	95
	dimensions (LxWxH)(mm)	78.7x41x22/103x41x22
	casing material	Plastic
	housing colour	Grey+blue end cap
	connecting method	Push-in
	type of protection	IP20
	protection class	ClassII for EU,class 2 for UL
Note	1. At 230Vac,50Hz,full load. 2. Tolerance:includes set up tolerance,line regulation and load regulation. 3. At 230Vac,50Hz,LED load,blew 200Hz	

### Dimensions(mm):



### Wiring diagram:



### Application:

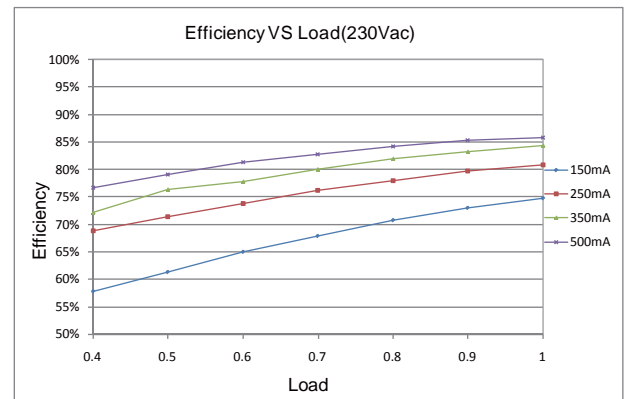
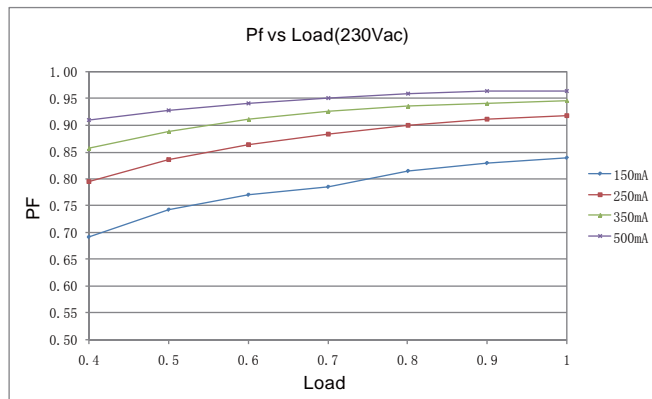
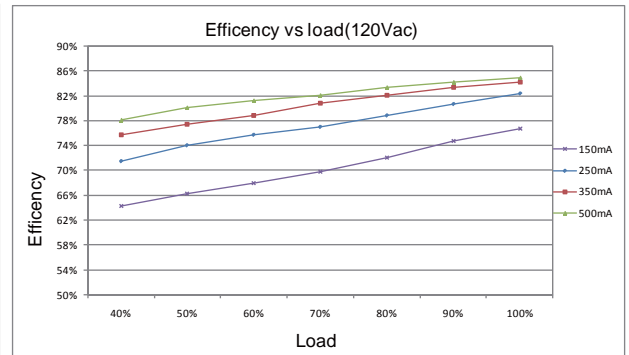
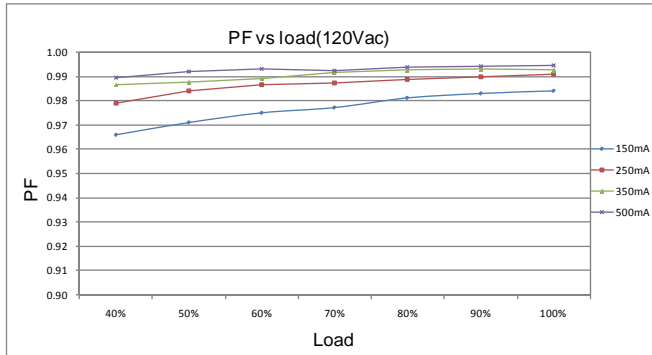
Built-in application



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.

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