

LED power supply Constant Current Fix Compact DALI2

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



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.



Standards:

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

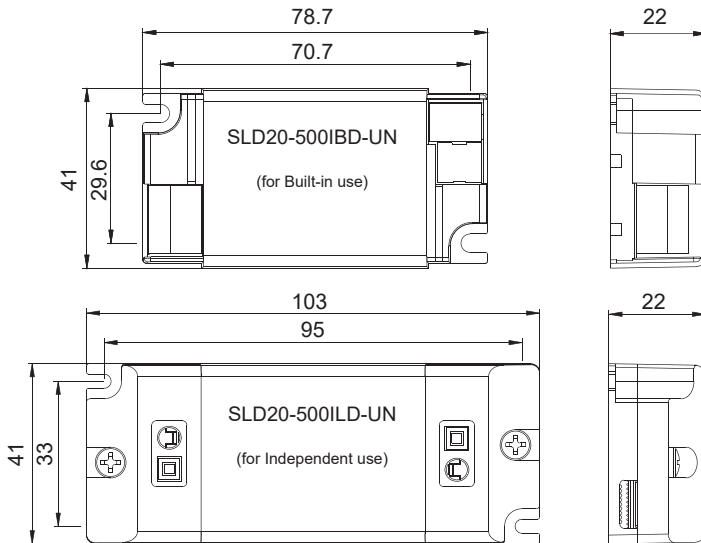
Characteristics:

- 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 or High voltage push dimming
- 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

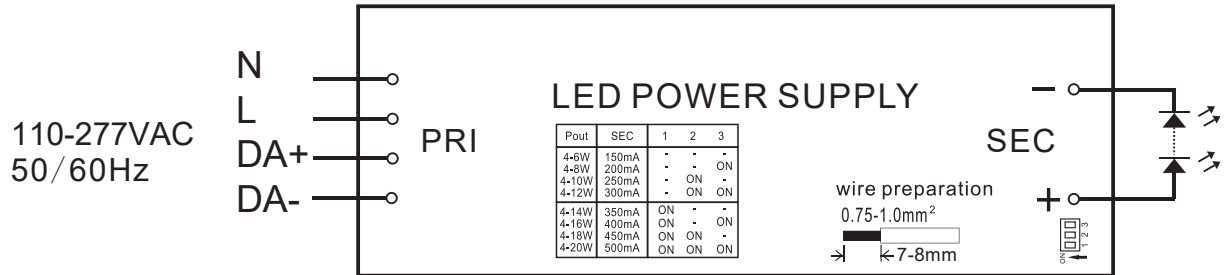
Specifications:

| Model | SLD20-500IB/LD-UN | |
|------------------|---|--|
| Output | turn on time(S) ¹ | ≤0.5 |
| | output current(mA) ¹ | 150/200/250/300/350/400/450/500 |
| | output current tolerance ² | +/-5% |
| | ripple current(%) ³ | ≤3% |
| | working voltage range(V) | 8-40 |
| | output power range(W) | 4-20 |
| | 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) | 110-277Vac |
| | 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) ¹ | 23.8 |
| | efficiency ¹ | 84%(Refere to Electrical curves) |
| | power factor ¹ | 0.90C(Refere to Electrical curves) |
| | THD ¹ | 10%@230V@full load any current presetting |
| | inrush current(lpk) ¹ | 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) | 95g |
| | dimensions (L×W×H)(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,below 200Hz | |

Dimensions(mm):



Wiring diagram:

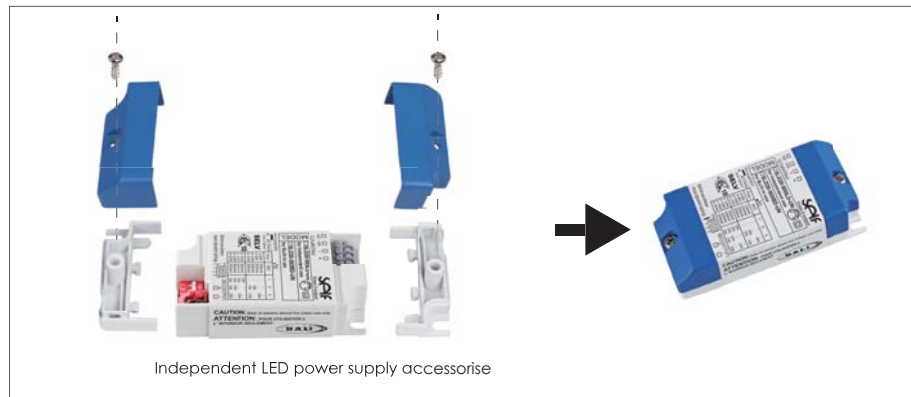


Application:

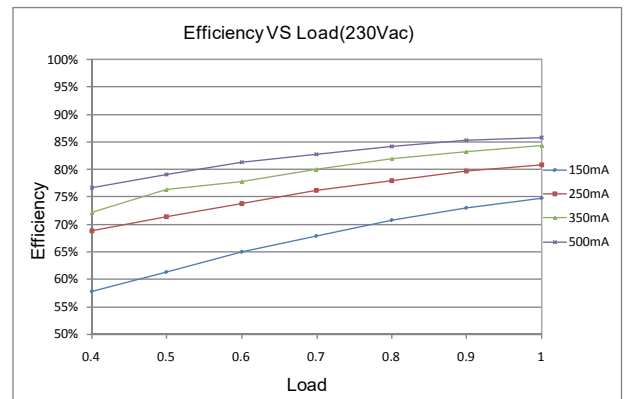
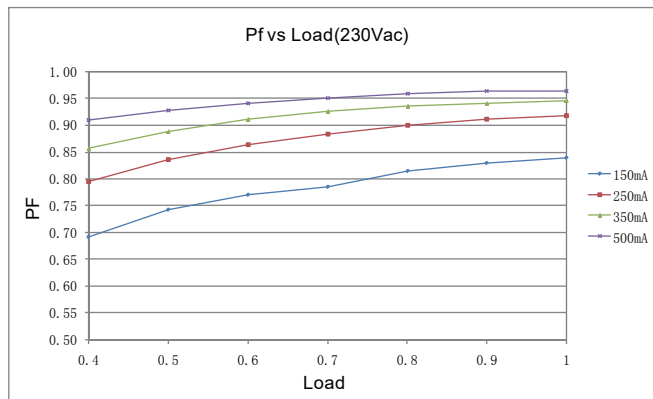
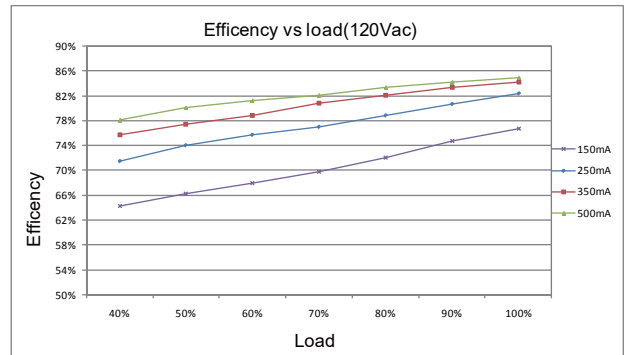
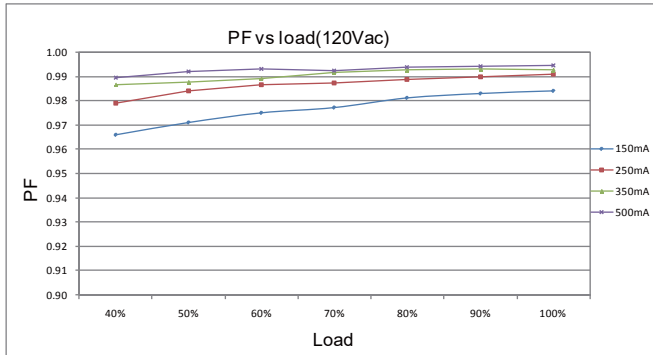
Built-in application



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.

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