# Constant Current LED Power Supply 1-10V Dimmable



## Product description:

As independent application, compact power supply series was designed for LED down light, spot light, panel light, etc. Advanced output current design exclusively for COB chip, 1...10V dimmable version as optional choice. Thinner profile made this series practical for build-in application. Screwless cover made this series easy installation, high efficiency, highly reliable, and cost-effective choice for both residential and commercial uses.



## Standards:

EN61347-1

EN61347-2-13

EN61547

EN55015

EN61000-3-2

EN61000-3-3

EN62384

EN62493

## **Characteristics:**

- Independent power supply for constant current LED lamp
- 10-100% dimming range by  $150 \mathrm{k}\Omega$  potentiometer or 1-10V dimmer(electronic potentiometer)
- Suitable for both Class I and Class II Luminaires
- Terminal block input, terminal block output
- Class II protection against electric shock from direct and indirect contact
- SELV output
- Open circuit, short circuit, over load and over temperature protection
- Auto restart after fault conditions removal
- Efficiency:84% (AC230V, full load)

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# Specifications:

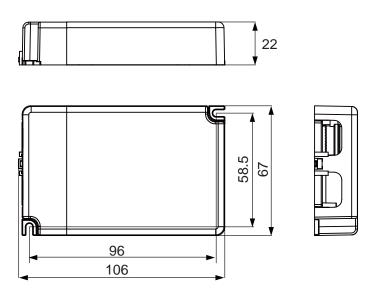
| Model            |  | SLD30-550ISA-E  | SLD30-600ISA-E     | SLD30-650ISA-E     | SLD30-700ISA-E     |  |
|------------------|--|---|--------------------|--------------------|--------------------|--|
| Output           | turn on time(S)  | ≤0.5  | ≤0.5               | ≤0.5               | ≤0.5               |  |
|                  | output current(mA)   | 550   | 600                | 650                | 700                |  |
|                  | output current tolerance   | +/-6%   | +/-6%              | +/-6%              | +/-6%              |  |
|                  | ripple current(mA)   | 275(lp-p)   | 300(lp-p)          | 325(lp-p)          | 350(lp-p)          |  |
|                  | working voltage range(V)   | 6-44  | 6-44               | 6-44               | 6-44               |  |
|                  | Max. output voltage(V)   | 58  | 58                 | 58                 | 58                 |  |
|                  | dimming interface  | 1-10V   |                    |                    |                    |  |
|                  | dimming range  | 10%-100%  |                    |                    |                    |  |
| Input            | rated supply voltage(Vac)  | 220-240   | 220-240            | 220-240            | 220-240            |  |
|                  | voltage range(Vac)   | 198-264   | 198-264            | 198-264            | 198-264            |  |
|                  | line frequency(Hz)   | 50/60   | 50/60              | 50/60              | 50/60              |  |
|                  | input current(mA)  | 150   | 160                | 170                | 180                |  |
|                  | efficiency <sup>2</sup>  | 83.4.0%   | 84.0%              | 83.5%              | 83.8%              |  |
|                  | power factor 2   | 0.95  | 0.95               | 0.95               | 0.95               |  |
|                  | inrush current(lpk)  | 5.5A/10us   | 5.5A/10us          | 5.5A/10us          | 5.5A/10us          |  |
| Protection -     | over voltage protection  | YES   | YES                | YES                | YES                |  |
|                  | short circuit protection   | YES   | YES                | YES                | YES                |  |
|                  | over temperature protection  | YES   | YES                | YES                | YES                |  |
|                  | automatic restart  | YES   | YES                | YES                | YES                |  |
|                  | over load protection   | YES   | YES                | YES                | YES                |  |
|                  | surge capacity   | L-N:1KV L,N-PE:2KV  | L-N:1KV L,N-PE:2KV | L-N:1KV L,N-PE:2KV | L-N:1KV L,N-PE:2KV |  |
| Ambient and Life | Ta(℃)  | -2050   |                    |                    |                    |  |
|                  | Tc max. (℃)  | 85  |                    |                    |                    |  |
|                  | Storage Temperature(°C)  | -3080   |                    |                    |                    |  |
|                  | ambient humidity range   | 5%85%RH, Not condensing   |                    |                    |                    |  |
|                  | nominal life-time(hrs)   | 50'000@Tc=70°C  |                    |                    |                    |  |
| Other            | weight(g)  | 130   |                    |                    |                    |  |
|                  | dimensions (L×W×H)(mm)   | 106×67×22   |                    |                    |                    |  |
|                  | casing material  | Plastic   |                    |                    |                    |  |
|                  | housing colour   | White+Blue  |                    |                    |                    |  |
|                  | type of protection   | IP20  |                    |                    |                    |  |
|                  | protection class   | CLASS II  |                    |                    |                    |  |
| Note             | 2.Tested at full load,230Vac 3.All parameters NOT speci-<br>temperature.  4.The power supply is consic EMC performance will be a | Tolerance: includes set up tolerance, line regulation and load regulation.  Tested at full load,230Vac.Refer to "Power Factor" and "EFFICIENT" curve graphs.  All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 of ambient emperature.  The power supply is considered as a component that will be operated in combination with final equipment. Since MC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify MC Directive on the complete installation again. |                    |                    |                    |  |
|                  |  |   |                    |                    |                    |  |

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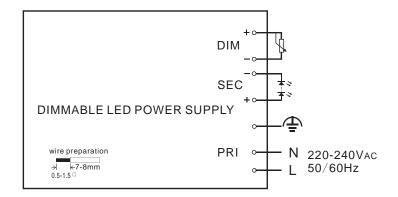
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# Dimensions(mm):



# Wiring diagram:

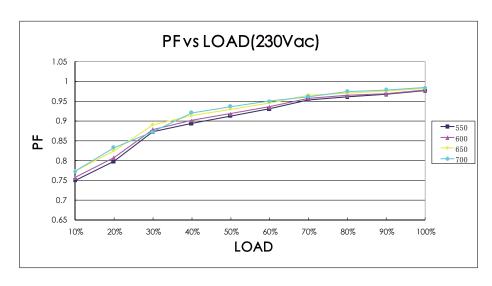


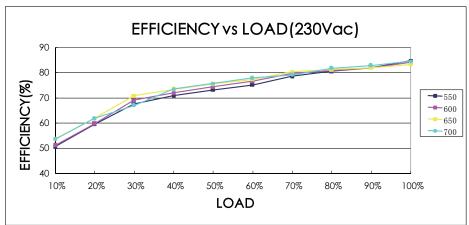
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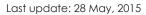


## Electrical curves:





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.



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