

Constant Current LED Power Supply

FCC linear series

SLT160-700IL-EU



Product description:

This type of power supply is an exclusively designed stabilized power supply for LED lamp. With constant current (CC) technology, it is suitable for constant current lamps connected in a series. According to the switches selection, the output current can change from 350mA to 700mA. The current step is 50mA.

The built-in protection circuit will shut down the power supply in case of such faults as: open circuit, short circuit, over load or 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
EN50172

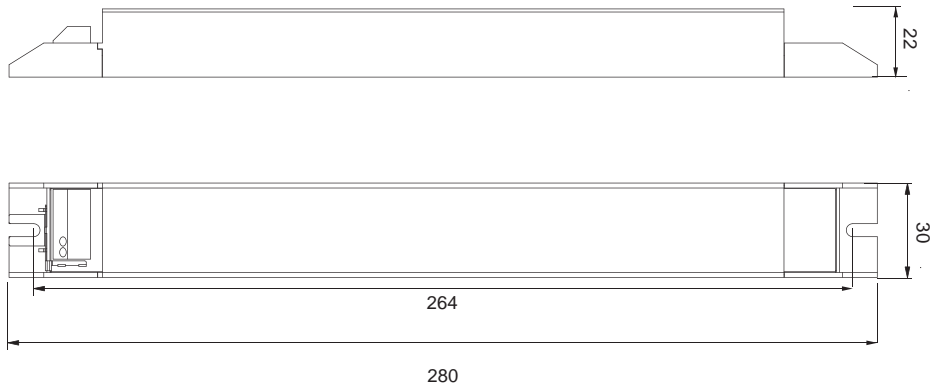
Characteristics:

- Built-in power supply for constant current LED lamp
- Push in terminal block for quick connection
- With function ground terminal suitable for Class I application
- Non-isolated design has high performance cost ratio
- Multi output current with Dipswitch optional current from 350mA-700mA
- Ripple free
- 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 | | SLT160-700IL-EU |
|------------------|--|---------------------------------|
| Output | turn on time(S) | ≤0.5 |
| | output current(mA) | 350/400/450/500/550/600/650/700 |
| | output current tolerance ^① | +/-10% |
| | ripple current(mA) ^③ | ≤3%(I _{p-p}) |
| | working voltage range(V) | 120-228 |
| | maximum working voltage(V) | 420 |
| | dimming interface | No |
| | dimming range | n/a |
| Input | rated supply voltage(Vac) | 220-240 |
| | voltage range(Vac) | 198-264 |
| | line frequency(Hz) | 50/60 |
| | input current(mA) | 900 |
| | efficiency ^② | 95.0% |
| | power factor ^② | 0.95 |
| | inrush current(I _{pk}) | ≤80A/130μs |
| Protection | over voltage protection | 320V 1h |
| | short circuit protection | YES |
| | over temperature protection | YES |
| | automatic restart | YES |
| | over load protection | YES |
| | surge capacity | L-N: 1KV L,N-PE: 2KV |
| Ambient and Life | Ta(°C) | -20...50 |
| | Tc max. (°C) | 90 |
| | audible noise(dB) | 25 |
| | Storage Temperature(°C) | -30...80 |
| | ambient humidity range | 5%...85%RH, Not condensing |
| | nominal life-time(hrs) | 50'000@Tc=50 C |
| Other | weight(g) | 237 |
| | dimensions (LxWxH)(mm) | 280x30x22 |
| | casing material | plastic |
| | housing colour | grey |
| | type of protection | IP20 |
| | protection class | Built-in |
| Note | <p>1.Tolerance : includes set up tolerance, line regulation and load regulation. 2.Tested at full load,230Vac.Refer to"Power Factor" and "EFFICIENT"curve graphs. 3.Output LF current ripple (< 200 Hz) 4.All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 of ambient temperature. 5.The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.</p> | |

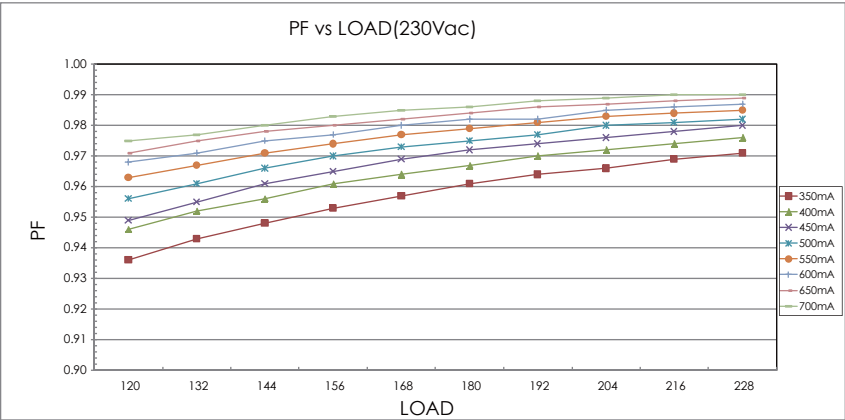
Dimensions(mm):



Wiring diagram:

| INPUT | L | SLT160-700IL-EU LED POWER SUPPLY | •tc | warning: Power off before connecting the LED lamp and dipswitch settings Keep load-balancing when connecting the led lamp in parallel | <table border="1"> <thead> <tr> <th>Iout</th> <th>V_o</th> <th>P_{omax}</th> <th>1</th> <th>2</th> <th>3</th> </tr> </thead> <tbody> <tr> <td>350mA</td> <td>120-228V</td> <td>80W</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>400mA</td> <td>120-228V</td> <td>91W</td> <td>-</td> <td>-</td> <td>ON</td> </tr> <tr> <td>450mA</td> <td>120-228V</td> <td>103W</td> <td>-</td> <td>ON</td> <td>-</td> </tr> <tr> <td>500mA</td> <td>120-228V</td> <td>114W</td> <td>-</td> <td>ON</td> <td>ON</td> </tr> <tr> <td>550mA</td> <td>120-228V</td> <td>125W</td> <td>ON</td> <td>-</td> <td>-</td> </tr> <tr> <td>600mA</td> <td>120-228V</td> <td>137W</td> <td>ON</td> <td>-</td> <td>ON</td> </tr> <tr> <td>650mA</td> <td>120-228V</td> <td>148W</td> <td>ON</td> <td>ON</td> <td>-</td> </tr> <tr> <td>700mA</td> <td>120-228V</td> <td>160W</td> <td>ON</td> <td>ON</td> <td>ON</td> </tr> </tbody> </table> | Iout | V _o | P _{omax} | 1 | 2 | 3 | 350mA | 120-228V | 80W | - | - | - | 400mA | 120-228V | 91W | - | - | ON | 450mA | 120-228V | 103W | - | ON | - | 500mA | 120-228V | 114W | - | ON | ON | 550mA | 120-228V | 125W | ON | - | - | 600mA | 120-228V | 137W | ON | - | ON | 650mA | 120-228V | 148W | ON | ON | - | 700mA | 120-228V | 160W | ON | ON | ON | wire preparation 18-9mm 0.5/1.0 | | OUTPUT |
|-------|--|-------------------------------------|-----|--|--|-------------------|----------------|-------------------|---|---|---|-------|----------|-----|---|---|---|-------|----------|-----|---|---|----|-------|----------|------|---|----|---|-------|----------|------|---|----|----|-------|----------|------|----|---|---|-------|----------|------|----|---|----|-------|----------|------|----|----|---|-------|----------|------|----|----|----|---------------------------------------|--|------------|
| | Iout | | | | V _o | P _{omax} | 1 | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 350mA | 120-228V | 80W | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400mA | 120-228V | 91W | - | - | ON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 450mA | 120-228V | 103W | - | ON | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 500mA | 120-228V | 114W | - | ON | ON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 550mA | 120-228V | 125W | ON | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 600mA | 120-228V | 137W | ON | - | ON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 650mA | 120-228V | 148W | ON | ON | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 700mA | 120-228V | 160W | ON | ON | ON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N | PRI | EL 18 110/M/M/CE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NA | SEC: 350...700mA, 160W _{max} , U _{out} =420V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NA | ta: -20...+50°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PE | tc: 90°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 Model | B10 | B13 | B16 | B20 | C10 | C13 | C16 | C20 |
|--|-----|-----|-----|-----|-----|-----|-----|-----|
| SLT160-700IL-EU | 8 | 10 | 13 | 17 | 5 | 7 | 9 | 11 |

Order information:

| Order.No. | Model | Carton quantity(pcs) | Carton dimension(mm) | G.W./CTN(kg) |
|------------------|-----------------|----------------------|----------------------|--------------|
| 1001-260151-0130 | SLT160-700IL-EU | 50 | 380x310x165 | 12 |

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