Constant Voltage LED Power Supply SDL150-12VFP6 SDL150-24VFP6



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Product description

SDL150 series is a constant voltage LED DALI driver for indoor and outdoor. Its input voltage range is 198-264Vac, with a conversion efficiency up to 93%. It adopts fanless design and works at -20 $^\circ\mathrm{C}$ \sim +60°C natural cooling The temperature range of the cooling case, and has ultra-hiah power factor, ultra-low total harmonic distortion, low standby power consumption, and all-round protection functions, which not only greatly improve the reliability of the product, but also ensure the product life cycle.

Standards

EN61347-1 EN61347-2-13 EN61547 EN55015 EN61000-3-2 EN61000-3-3 EN62384 EN62493 IEC 62386-101, 102, 207

Characteristics

- •European AC input range (220-240VAC)
- With active PFC function
- Waterproof IP67
- DALI-2.0 DT6 dimming driver
- Built-in push dimming function
- Dimming range 1-100%
- Suitable for dry indoor environments
- Protection type: short circuit/over temperature/over voltage protection
- Metal shell with glue filling inside
- Conforms to world lighting safety regulations
- Warranty 5 years



Specifications

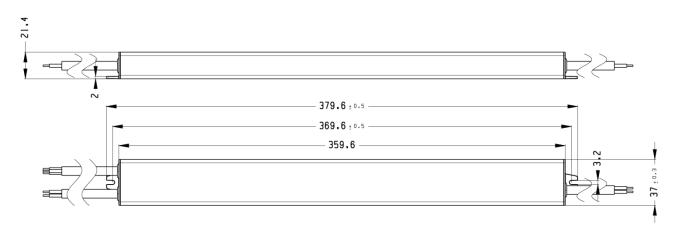
| Model | | SDL150-12VFP6 | SDL150-24VFP6 | | |
|-----------|--|---|--|--|--|
| | turn on time(S) | <0.5 | <0.5 | | |
| | output power(W) | 132 | 150 | | |
| | output voltage(V) | 12 | 24 | | |
| | output voltage tolerance | ≤±5% | ≤±5% | | |
| | ripple voltage(mV) | 150 | 170 | | |
| Output | Line Regulation | 1% | 1% | | |
| | Load Regulation | 3% | 2% | | |
| | working current range(A) | 0-11 | 0-6.25 | | |
| | SVM | 0.1 | 0.1 | | |
| | Pst | 0.1 | 0.1 | | |
| | dimming type | YES | YES | | |
| | dimming range | 1-100% | 1-100% | | |
| | rated DC supply voltage(Vdc) | NA | NA | | |
| | rated supply voltage(Vac) | 220-240 | 220-240 | | |
| | voltage range(Vac) | 198-264 | 198-264 | | |
| | line frequency(Hz) | 50/60 | 50/60 | | |
| | input current(A) | 0.9 | 0.9 | | |
| | efficiency (TYPE) | 92.5%@full load | 93.5%@full load | | |
| Input | average efficiency(TYPE) 3 (TYPE)3 | 91.5% | 92.5% | | |
| | no load power consumption(W) | ≤0.5W | ≤0.5W | | |
| | power factor | 0.95@full load | 0.95@full load | | |
| | Displacement factor | 0.95 | 0.95 | | |
| | THD(typ.) THD | 4% | 4% | | |
| | inrush current(lpk) (lpk) | 80A/260uS | 80A/260uS | | |
| | Leakage current (mA) | 0.7@240Vac 60Hz | 0.7@240Vac 60Hz | | |
| | short circuit protection | hiccup mode, restart automatically after fault correction. | hiccup mode, restart automatically after fault correction. | | |
| | over load protection | hiccup mode, restart automatically after fault correction. | exceed maximum rated load times 1.1 | | |
| | Over voltage protection | Yes(latch off) | Yes(latch off) | | |
| | Over temperature protection | Yes(latch off) | Yes(latch off) | | |
| Protectio | nsurge capacity | L-N: 1KV | L-N: 1KV | | |
| | L N-GND:2KV Withstand voltage Input-Output: 3000V/5mA/1min | | L N-GND:2KV Input-Output: 3000V/5mA/1min | | |
| | Ta(C) | Input-gnd:1500V/5mA/1min -2060(see derating curve) | Input-gnd:1500V/5mA/1min -2060(see derating curve) | | |

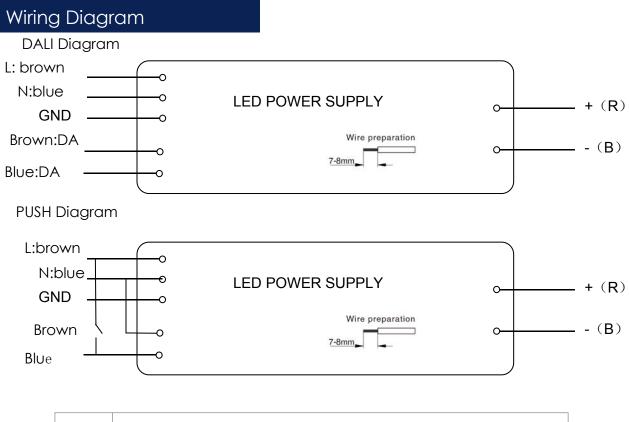


| | Tc max.(C) | max.80 | max.80 | | |
|----------|---|----------------------------|----------------------------|--|--|
| Ambient | Storage Temperature(C) | -3080 | -3080 | | |
| and Life | ambient humidity range | 5%85%RH, Not condensing | 5%85%RH, Not condensing | | |
| | nominal life-time(hrs) | 50'000@Ta | 50'000@Ta | | |
| | dimensions (L×W×H)(mm) | 379.6x37x21.4 | 379.6x37x21.4 | | |
| | weight(g) | 600 | 600 | | |
| 0.1 | casing material | metal | metal | | |
| Other | housing colour | Aluminum | Aluminum | | |
| | type of protection | IP67 | IP67 | | |
| | protection class | class I | class I | | |
| | certificate | | | | |
| Note | 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.Calculate the model's average efficiency for each test voltage by testing at 100%, 75%, 50%, and 25% of rated current and then computing the simple arithmetic average of these four values. 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. | | | | |



Dimensions(mm)

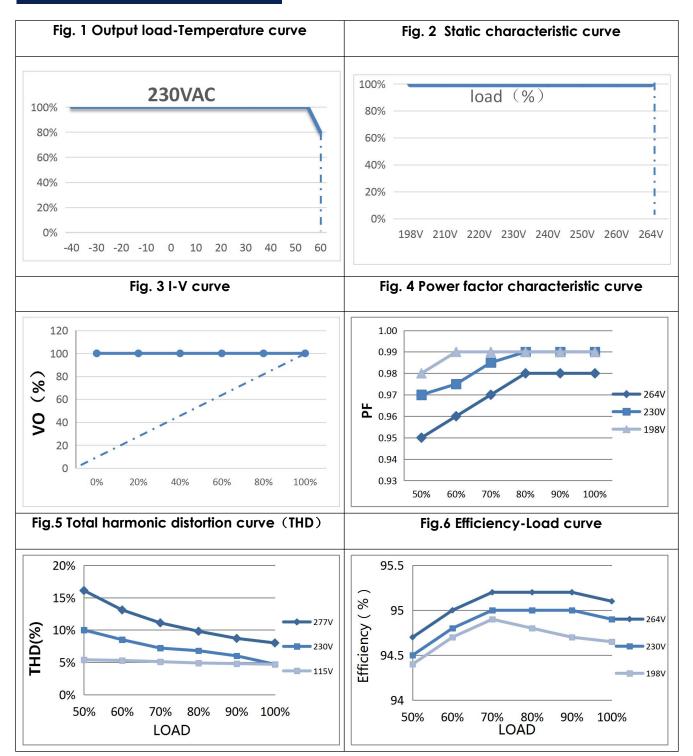




| AC | H05RN-F 3*0.75mm ² |
|---|-------------------------------|
| dali | H05RN-F 2*0.75mm ² |
| DC SVT16AWG(FOR 12V)/ SVT18AWG(FOR 24V) | |



Electrical curves





MCBS

| MCBS Model | B10 | B13 | B16 | B20 | C10 | C13 | C16 | C20 |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|
| SDL150-12VFP6 | 4 | 6 | 7 | 9 | 5 | 7 | 9 | 11 |
| SDL150-24VFP6 | 4 | 6 | 7 | 9 | 5 | 7 | 9 | 11 |

Package

| Model | Carton quantity(pcs) | Carton dimension(mm) | G.W./CTN(kg) |
|---------------|----------------------|----------------------|--------------|
| SDL150-12VFP6 | | | |
| SDL150-24VFP6 | | | |

Revision history

| Date | Rev. | Remark |
|-----------|------|------------------|
| 2023.3.28 | AO | Initial release. |
| 2023.6.6 | A1 | Official release |
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