

# LXV&\* SERIES

LED Power Supply Constant Voltage: 2\* Watts



## Features

- High Efficiency ( up to 84% )
- Constant Voltage operation
- Active PFC ( typical 0.92 )
- IP66 Waterproof case
- Over voltage & Overload / SC Protection
- -20°C to 70°C Operating Temperature
- Input 90-305VAC
- UL8750 compliant
- EN61347-1, -2-13 Compliant

## Description

The LXV26 series has 3 models offering outputs of 24V, 36V and 48V solutions for specific LED lighting applications. With industry leading efficiencies, and an extensive protection feature set, the LXV26 series provides high reliability and high performance in a compact package. The LXV26 series carries the UL and CE mark for safety and is also RoHS compliant.

| Model                      | Output V | Output A | Input V   | Eff   |
|----------------------------|----------|----------|-----------|-------|
| LXV26-024SW <sup>(3)</sup> | 24V      | 1080mA   | 90-305VAC | 83.0% |
| LXV26-036SW <sup>(3)</sup> | 36V      | 720mA    | 90-305VAC | 84.0% |
| LXV26-048SW <sup>(4)</sup> | 48V      | 540mA    | 90-305VAC | 85.0% |



| Input Specifications             |   |      |         |      |       |
|----------------------------------|---|------|---------|------|-------|
| Parameter                        | Conditions/Description                              | Min  | Nom     | Max  | Units |
| <b>Input Voltage Range</b>       | Wide Input  | 90   |         | 305  | VAC   |
| <b>Input Frequency Range</b>     |   | 47   |         | 63   | Hz    |
| <b>Input Current</b>             | 100VAC in, 26W output                               |      |         | 0.40 | A     |
| <b>Inrush Current</b>            | 230VAC in, 25°C, Cold Start                         |      |         | 60   | A     |
| <b>Power Factor</b>              | 220VAC, 110VAC                                      | 0.92 |         | 0.98 |       |
| Output Specifications            |   |      |         |      |       |
| Parameter                        | Conditions/Description                              | Min  | Nom     | Max  | Units |
| <b>Line Regulation</b>           |   |      |         | ±2   | %     |
| <b>Load Regulation</b>           |   |      |         | ±3   | %     |
| <b>Output Voltage Tolerance</b>  |   |      |         | ±5   | %     |
| <b>Overshoot</b>                 | On Power Up   |      |         | 10   | %     |
| <b>Ripple and Noise</b>          | 20MHz Bandwidth. See Note 1                         | 3.0  |         | 4.0  | V     |
| <b>Turn-on Delay</b>             | Measured at 220VAC and full load                    |      | 0.3     | 0.5  | s     |
| <b>Short Circuit Protection</b>  | Auto Recovery                                       |      |         |      |       |
| <b>Over Voltage Protection</b>   | Hiccup. Auto Recovery (% of Output Voltage)         | 110  | 120     | 130  | %     |
| <b>Over Current Protection</b>   | Hiccup. Auto Recovery (% of Output Current)         | 130  | 150     | 170  | %     |
| General Specifications           |   |      |         |      |       |
| Parameter                        | Conditions/Description                              | Min  | Nom     | Max  | Units |
| <b>Isolation Voltage</b>         | Input to Output See Note 2                          | 3000 |         |      | VAC   |
|                                  | Input to Chassis                                    | 1500 |         |      | VAC   |
| <b>Efficiency</b>                | See individual models                               |      | 84      |      | %     |
| <b>Safety Agency Approvals</b>   | UL8750, EN61347-1, -2-13, UL1310 Class 2 Note 3 & 4 |      |         |      |       |
| <b>No load Power Dissipation</b> | Measured at 120VAC and 220VAC                       |      |         | 4.0  | W     |
| <b>MTBF</b>                      | MIL HDBK 217F, 110VAC input, 80% load, 25°C         |      | 130,000 |      | Hours |
| <b>Lifetime</b>                  | 110VAC input, 80% load, 45°C                        |      | 70,000  |      | Hours |
| <b>Weight</b>                    |   |      | 200     |      | g     |
| <b>Operating Temperature</b>     | Derate 1.5%/°C from 50°C to 70°C                    | -20  |         | +70  | °C    |
| <b>Storage Temperature</b>       |   | -40  |         | +85  | °C    |
| <b>Relative Humidity</b>         | Non-condensing (operating)                          | 10   |         | 100  | %RH   |

Note 1. Output connected in parallel with 0.1uF ceramic capacitor and 10uF electrolytic capacitor.

Note 2. Primary to Secondary Isolation test not to be carried out on power supply.

Note 3. UL1310 Class 2 outputs for US and Canada

Note 4. UL1310 Class 2 output for US Non Class 2 Output for Canada

Specifications are subject to change without notice

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LED Power Supply Constant Current: 2\* Watts

| EMC                       |              |  |             |       |
|---------------------------|--------------|--|-------------|-------|
| Parameter                 | Standard     |  | Level       | Units |
| <b>Emissions</b>          |              |  |             |       |
| Conducted                 | EN55015      |  | Level B     |       |
| Radiated                  | EN55015      |  | Level B     |       |
| Harmonic Distortion       | EN61000-3-2  |  | Compliant   |       |
| Flicker and Fluctuation   | EN61000-3-3  |  | Compliant   |       |
| <b>Immunity</b>           |              |  |             |       |
| ESD                       | EN61000-4-2  |  | Compliant   |       |
| Radiated RFI              | EN61000-4-3  |  | Compliant   |       |
| Fast Transients - burst   | EN61000-4-4  |  | Level 3 (A) |       |
| Conducted RFI             | EN61000-4-6  |  | Compliant   |       |
| Power Freq Magnetic Field | EN61000-4-8  |  | Compliant   |       |
| Voltage Dips              | EN61000-4-11 |  | Compliant   |       |

## INPUT / OUTPUT WIRING

### INPUT CABLE

SJTW 18AWG

Black (L), White(N) 270±20mm

### OUTPUT CABLE

SJTW 18AWG

Black (-V) and Red (+V) 270±20mm

## MECHANICAL SPECIFICATIONS

