

LXV+) SERIES

LED Power Supply: Constant Voltage: +) watts



Features

- High Efficiency (up to 93%)
- Constant Voltage operation
- Active PFC (typical 0.98)
- IP67 Waterproof case
- Over voltage & Overload / SC Protection
- -35°C to 70°C Operating Temperature
- Input 90-305VAC
- UL8750 compliant
- EN61347-1, -2-13 Compliant
- AS/NZS approval no: NSW24814



Description

The LXV75 series of constant voltage power supplies provides a range of output voltage solutions for specific LED requirements. With industry leading efficiencies, and an extensive protection feature set, the LXV75 series provides high reliability and high performance in a compact package. The LXV75 series carries the CE mark for safety and is also RoHS compliant.

| Model | Output V | Output A | Input V | OVP | Eff |
|------------|-------------|-------------|--------------------------|------|----------------|
| LXV75-012S | 12V | 6.25A | 90-264VAC ⁽³⁾ | 16V | 110-180% 90.0% |
| LXV75-024S | 24V | 3.13A | 90-264VAC ⁽³⁾ | 34V | 110-180% 92.0% |
| LXV75-036S | 36V | 2.08A | 90-264VAC ⁽³⁾ | 50V | 110-180% 92.0% |
| LXV75-042S | 42V | 1.79A | 90-264VAC ⁽³⁾ | 57V | 110-180% 93.0% |
| LXV75-048S | 48V | 1.56A | 90-264VAC ⁽³⁾ | 63V | 110-180% 92.0% |
| LXV75-054S | 54V | 1.39A | 90-264VAC ⁽³⁾ | 75V | 110-180% 92.0% |
| LXV75-081S | 81V | 0.93A | 90-264VAC ⁽³⁾ | 100V | 110-180% 92.0% |
| LXV75-105S | 105V | 0.71A | 90-264VAC ⁽³⁾ | 140V | 110-180% 92.0% |

| Input Specifications | | | | | |
|-----------------------------------|--|------|---------|---------|---------|
| Parameter | Conditions/Description | Min | Nom | Max | Units |
| Input Voltage Range | Universal Input. see Note 3 | 90 | | 264/305 | VAC |
| Input Frequency Range | | 47 | | 63 | Hz |
| Input Current | 100VAC in, 75W output | | | 0.90 | A |
| Inrush Current | 230VAC in, 25°C, Cold Start | | | 65 | A |
| Power Factor | 220VAC, 110VAC | 0.95 | | 0.99 | |
| Leakage Current | 240VAC, 50Hz | | | 0.75 | mA |
| Output Specifications | | | | | |
| Parameter | Conditions/Description | Min | Nom | Max | Units |
| Line Regulation | | | | ±1 | % |
| Load Regulation | | | | ±2 | % |
| Voltage Accuracy | % of Vout | | | ±5 | % |
| Ripple and Noise | 20MHz Bandwidth. See Note 1 | | | 2.0 | % pk-pk |
| Dynamic Response | Output Deviation R/S : 1 A / μ S | | | 5 | % |
| | Settling Time Load : 25% ~ 75% full Load | | | 10 | mS |
| Overshoot | | | | 10 | % |
| Turn-on Delay | Measured at 220VAC and full load | | | 3 | s |
| Short Circuit Protection | Auto Recovery | | | | |
| Over Voltage Protection | Latching. See individual models OVP levels | | | | |
| OverTemperature Protection | Internal Component Temperature | | | 110 | °C |
| General Specifications | | | | | |
| Parameter | Conditions/Description | Min | Nom | Max | Units |
| Isolation Voltage | Input to Output See Note 2 | 3750 | | | VAC |
| | Input to Chassis | 1500 | | | VAC |
| Efficiency | See individual models | | 93.0 | | % |
| Safety Agency Approvals | UL8750, EN61347-1, -2-13 | | | | |
| No load Power Dissipation | Measured at 120VAC and 220VAC | | | 1.5 | W |
| MTBF | MIL-HDBK-217F, 110VAC, 80% load, 25°C | | 467,000 | | Hours |
| Lifetime | 110VAC, 80% load, 45°C | | 83,000 | | Hours |
| Weight | | | 950 | | g |
| Operating Temperature | | -35 | | +70 | °C |
| Storage Temperature | | -40 | | +85 | °C |
| Relative Humidity | Non-condensing (operating) | 10 | | 100 | %RH |

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

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

Note 3. 90-305VAC input voltage range available. Add Suffix "W" to part number e.g. LXV75-012SW

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| EMC | | | | |
|---------------------------|--------------|--|-----------|-------|
| Parameter | Standard | | Level | Units |
| Emissions | | | | |
| Conducted | EN55015 | | Level B | |
| Radiated | EN55015 | | Level B | |
| Harmonic Distortion | EN61000-3-2 | | Compliant | |
| Flicker and Fluctuation | EN61000-3-3 | | Compliant | |
| Immunity | | | | |
| ESD | EN61000-4-2 | | Level 4 | |
| Radiated RFI | EN61000-4-3 | | Level 3 | |
| Fast Transients - burst | EN61000-4-4 | | Level 4 | |
| Input Line Surges | EN61000-4-5 | | Level 4 | |
| Conducted RFI | EN61000-4-6 | | Compliant | |
| Power Freq Magnetic Field | EN61000-4-8 | | Compliant | |
| Voltage Dips | EN61000-4-11 | | Compliant | |

INPUT / OUTPUT WIRING

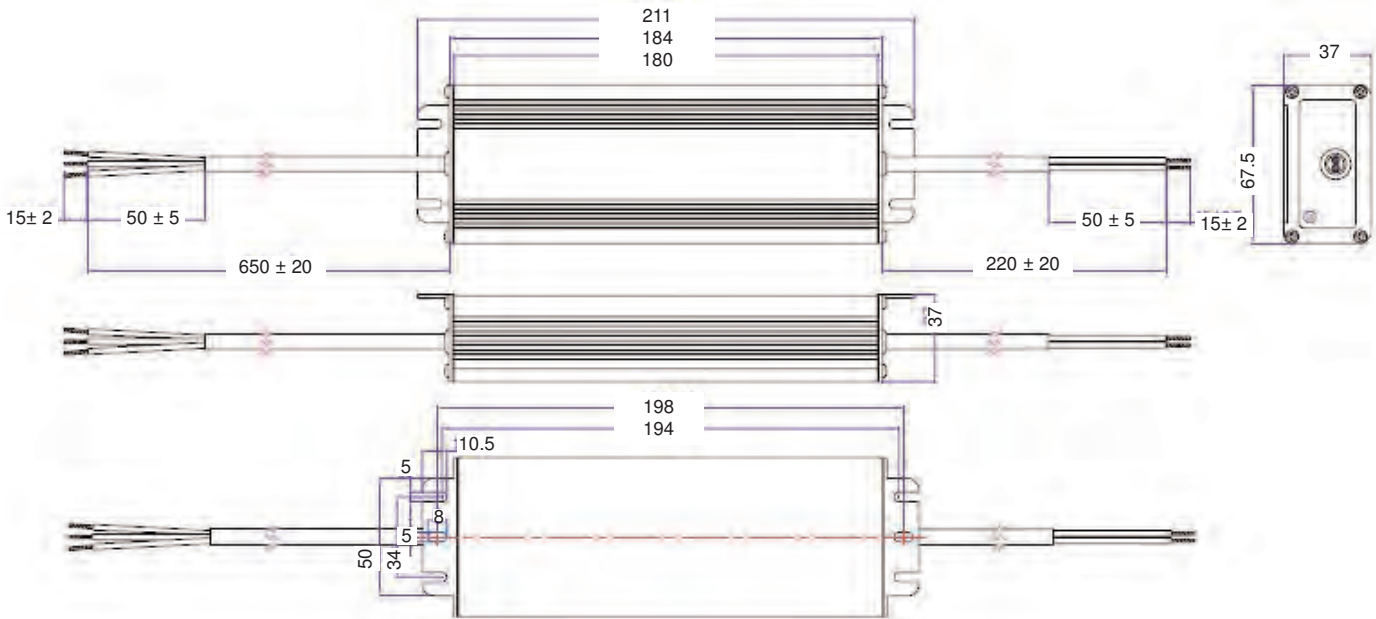
INPUT CABLE

SJTW 18AWG 3C
Black (L) and White(N), Green (E) 650±20mm

OUTPUT CABLE

SJTW 18AWG 2C
Black (-V) and Red (+V) 220±20mm

MECHANICAL SPECIFICATIONS



All Tolerances ± 0.2 mm unless specified