

LXC30 series

LED Power Supply

Constant Current Power Supplies



LED Power
30W

LED POWER next generation power source

FEATURES

- High Efficiency (up to 86%)
- Constant Output Current
- Active PFC (Typical 0.86)
- IP67 Waterproof
- OVP, SCP
- -35 to 60°C deg operation
- Universal Input 90-264VAC
- UL8750 recognised
- EN61347-1, -2-13 compliant

The LXC30 series of constant current LED power supplies from Excelsys Technologies can deliver up to 30W of output power in an extremely compact package size.

The LXC30 series of constant current power supplies provides up to 2500mA of output current and 85V output voltage solutions for specific LED requirements. With industry leading efficiencies, and an extensive protection feature set, the LXC30 series provides high reliability and high performance in a compact package

The LXC30 series carries the CE mark for safety and is also RoHS compliant. For more details contact sales@excelsys.com

| Model Number | Output Voltage | Output Current | Input Voltage | OVP Latching max | Efficiency |
|--------------|----------------|----------------|---------------|------------------|------------|
| LXC30-0350S | 42-85V | 350mA | 90-264VAC | 129V | 87.0% |
| LXC30-0450S | 33-66V | 450mA | 90-264VAC | 99V | 86.0% |
| LXC30-0700S | 21-42V | 700mA | 90-264VAC | 63V | 86.0% |
| LXC30-0830S | 18-36V | 830mA | 90-264VAC | 54V | 86.0% |
| LXC30-1250S | 12-24V | 1250mA | 90-264VAC | 36V | 85.0% |
| LXC30-1660S | 9-18V | 1660mA | 90-264VAC | 27V | 84.0% |
| LXC30-2500S | 6-12V | 2500mA | 90-264VAC | 18V | 83.0% |

| Input Specifications | | | | | |
|---------------------------|--|------|-----------|------|---------|
| Parameter | Conditions/Description | Min | Nom | Max | Units |
| Input Voltage Range | Universal Input | 90 | | 264 | VAC |
| Input Frequency Range | | 47 | | 63 | Hz |
| Input Current | 100VAC in, 30W output | | | 0.43 | A |
| Inrush Current | 230VAC in, 25°C, Cold Start | | | 65 | A |
| Power Factor | 220VAC, 110VAC | 0.83 | | 0.86 | |
| Output Specifications | | | | | |
| Parameter | Conditions/Description | Min | Nom | Max | Units |
| Line Regulation | | | | ±1 | % |
| Load Regulation | | | | ±3 | % |
| Voltage Range | % of Vout | 50 | | 100 | % |
| Output Current Range | % of Iout | | | ±5 | % |
| Ripple and Noise | 20MHz Bandwidth. See Note 1 | | | 2.0 | % pk-pk |
| 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 | | | | |
| General Specifications | | | | | |
| Parameter | Conditions/Description | Min | Nom | Max | Units |
| Isolation Voltage | Input to Output See Note 2 | 3000 | | | VAC |
| | Input to Chassis | 1500 | | | VAC |
| Efficiency | See individual models | | 86 | | % |
| Safety Agency Approvals | UL8750, EN61347-1, -2-13 | | | | |
| No load Power Dissipation | Measured at 120VAC and 220VAC | | | 1.0 | W |
| MTBF | Telecordia SR-33, 25°C | | 2,000,000 | | Hours |
| Lifetime | 25°C | | 80,000 | | Hours |
| Weight | | | 460 | | g |
| Operating Temperature | | -35 | | +60 | °C |
| Storage Temperature | | -40 | | +85 | °C |
| Relative Humidity | 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 on power supply.

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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 | |
| Conducted RFI | EN61000-4-6 | Compliant | |
| Power Freq Magnetic Field | EN61000-4-8 | Compliant | |
| Voltage Dips | EN61000-4-11 | | |

INPUT / OUTPUT WIRING

INPUT CABLE

SJTW 18AWG 2C
Black (N) and White(L) 340±20mm

OUTPUT CABLE

SJTW 18AWG 2C
Black (-V) and Red (+V) 340±20mm

MECHANICAL SPECIFICATIONS

