

LPS30A SERIES

30W LED Driver - Switching Power Supply .

Description:

The LPS30A series of LED Driver provide 30w of continuous output power. The input voltage is available from 90VAC ~ 130VAC. All models meet FCC Part-15 B and are designed to comply with UL1310 Class 2, EN61347, IEC61347 and RoHS compliance. The LPS30A can be used for various Led lights.



Features:

- Active Power Factor Correction
- Meet Energy Star 2.0, Efficiency level V
- Single Output
- Constant Output Current
- 2 year warranty

Safety Approvals:



Electrical Characteristics:

| Sym. | Parameter | Test Conditions | Min. | Typ. | Max. | Unit |
|-------|--------------------------------------|--------------------------------|------------------|------|------|------|
| Vin | Safety Approvals Input Voltage Range | | 100 | | 120 | VAC |
| | Operating Voltage | | 90 | | 130 | VAC |
| Fin | Input Frequency | | 50 | | 60 | Hz |
| Po | Output Power Range | | 0 | | 30 | W |
| Vo | Output Voltage Range | | see rating chart | | | V |
| Io | Output Current Range | | see rating chart | | | A |
| PF | Power Factor Correction | Io=Full Load, Vin=115VAC | 0.9 | 0.95 | | |
| Iil | Input Current (Low Line) | Io=Full load, Vin=100VAC | | | 0.45 | A |
| Iih | Input Current (High Line) | Io=Full Load, Vin=120VAC | | | 0.40 | A |
| Irh | Inrush Current (High Line) | Io=Full Load, 25°C, Vin=120VAC | | 20 | 25 | A |
| Eff | Efficiency | Io=Full Load, Vin=115VAC | 83.5 | 85 | | % |
| Ts | Start Up Time | Io=Full Load, Vin=100VAC | | 3 | 5 | S |
| Vp-p | Ripple & Noise(Peak to Peak) | Io=Full Load, Vin=90VAC | | | 6.0 | Vp-p |
| Ilk | Leakage Current | Io=Full Load, Vin=120VAC | | | 0.5 | mA |
| OLP | Over Load Protection | | 110 | | 150 | % |
| REG-i | Line Regulation | Io=Full Load | | 0.5 | 1 | % |
| REG-o | Load Regulation | Vin=115VAC | | | 10 | % |
| Thold | Hold-Up Time | Io=Full Load, Vin=110VAC | 1 | | | mS |

Conditions :

| Sym. | Parameter | Test Conditions | Min | Typ. | Max. | Unit |
|-------|---|-----------------|------|------|------|-------|
| Toper | Operating Temperature | | 0 | 40 | 70 | °C |
| Tstg | Storage Temperature | | -40 | | 85 | °C |
| Ho | Operating Humidity | | 0 | | 95 | % |
| Hr | Storage Humidity | | 0 | | 75 | % |
| MTBF | Operation Temperature at 25°C, calculated per MIL-HDBK-217F | | 0.1M | | | Hours |

Safety Specifications :

| Sym. | Parameter |
|--------|-------------------|
| FCC | Part 15 Subpart B |
| Safety | UL1310 Class 2 |

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Output Voltage And Current Rating Chart (Single Output) :

| Model Number | Output Voltage | Max. Constant Current | Max. Output Power |
|--------------|-----------------|-----------------------|-------------------|
| LPS30A-105 | 8.4 ~ 13.8 VDC | 2.50 A | 30W |
| LPS30A-108 | 16.8 ~ 27.6 VDC | 1.25 A | 30W |
| LPS30A-110 | 25.2 ~ 41.4 VDC | 0.833 A | 30W |

PIN CHART

| MODEL \ PIN | 1 | 2 | 3 | 4 | 5 |
|-------------|------|-----|---------|-----|-----|
| LPS30A-105 | LINE | N/C | NEUTRAL | RTN | OUT |
| LPS30A-108 | LINE | N/C | NEUTRAL | RTN | OUT |
| LPS30A-110 | LINE | N/C | NEUTRAL | RTN | OUT |

Mechanical Specifications:

Note:

1. Dimensions are shown in inches or mm.
2. Weight: 150gs approx.
3. Input connect mates with AWG#16 wire.
4. Output connect mates with AWG#20 wire.

