

LED Power Supply Product Specifications

| LF1048 Series Switch-Mode LED Driver | |
|---|---------------|
| Total Power | 53 Watts max. |
| Input Voltages | 100-277 VAC |
| Number of Outputs | Single |

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SPECIAL FEATURES

- Single output 53-watts max. (selective models)
- In compliance to EN61000-3-2, -3-3 Class D
- Low Inrush Current maximize number of hookup
- Compatible with 0-10V dimming devices (current-source or current-drain)
- Available with C/C or C/V mode
- Suitable for dry and damp location applications
- OCP, OVP, OPP and SCP – shut down
OTP – Auto-recovery

ENVIRONMENTAL

Operating temperature: -30 to 70 °C
(De-rating : 2.5% per °C from 50°C~70°C)

Storage temperature: -40 to 85 °C

Humidity (Non-Condensing): 5% to 95%

Cooling: Convection

Vibration Frequency: 5 to 50 Hz

MTBF: >100,000 Hours at full load and 25°C ambient conditions (MIL-217F)

EMC : Compliant to 47CFR, Part 2, Part15 and Cispr PUB, 22 Class B

Acoustic Noise: Less than 24db (20~20K Hz)

ELECTRICAL SPECIFICATIONS

Input range 100 to 277 VAC/0.8-0.4A , Full range

Frequency 47 to 63 Hz

Power Factor > 0.92 at 50%~100% load, 115 and 230VAC

THD Less than 20%

Inrush current < 35.0A/115Vac or <70A/230Vac, cold start, 25° C

Efficiency 15V/83%, 24V/85%, 48V/87%, 115Vac full load

EMI filtering 47CFR, Part 2, Part 15 and Cispr PUB, 22 Class B

Maximum power 53 Watts

Line Regulation 3%

Load Regulation ±5%

Ripple Noise 1% typ.

Leakage Current <0.75mA @ 230VAC

Surge Immunity 4K VAC

Protection Over-voltage, Over-current, Over-temp. and Short circuit protection

SAFETY

UL/cUL UL8750 Recognized

CE Certified
(EN55015, EN61547, EN61347, EN61000-3-2 D)

MODEL SELECTION

| Model | Constant Voltage Models | | | Constant Current Models | | Max. Output (Watt) |
|------------|-------------------------|--------------|------------------|-------------------------|-----------------|--------------------|
| | Output Volts | V-Adj. (±5%) | I-out (min./max) | I-Adj. (±5%) | Voltage (Vf) | |
| LF1048-15 | 15V(12V) | 9 ~ 16.5V | 280 ~2800/3500mA | 1400 ~2800/3500mA | 8 ~ 16.5V(12V) | 42 |
| LF1048-24 | 24V(20V) | 15 ~26.4V | 200 ~2000/2400mA | 1000 ~2000/2400mA | 12 ~26.4V(20V) | 48 |
| LF1048-36 | 36V(28V) | 24 ~39.6V | 150 ~1350/1700mA | 700 ~1350/1700mA | 18 ~39.6V(28V) | 48 |
| LF1048-48 | 48V(40V) | 36 ~52.8V | 100 ~1000/1200mA | 500 ~1000/1200mA | 30 ~ 52.8V(40V) | 48 |
| LF1048-88 | N/A | | | 300 ~750mA | 40 ~ 88V | 53 |
| LF1048-160 | N/A | | | 200 ~ 420mA | 60 ~ 160V | 53 |

MECHANICAL DRAWING

Model Information – LF1048-XX-Cnnnn-DDDD, single DC output, 48 – 53W total

XX – Voltage range, 15=15V, 24=24V, 48=48V etc....

Cnnnn – (Optional or Blank) Constant Current Output, C3500=3500mA, C2200=2200mA etc.....

DDDD – (Optional or Blank)

-1631 = On/Off AC Step dimming, T1:100%, T2:60%, T3:35%, T4:15% (timing 1.5 Sec. between steps)

-010V = 1-10V dimming control or use 10-100KΩ variable resistor

