

# LED Power Supply Product Specifications

| LF1048 Series<br>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  
Certified  
CE (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

