

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	75 ~ 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

