

■ AC to DC LED Power Supply 37 ~ 53 Watts



Applications

LED Architectural Lighting
LED Commercial Industrial Lighting
LED Lighting

Features

cUL[®]us FC CE CB □ PSE IP66 RoHS REACH

Available in Constant Current or Constant Voltage
With dimming function by 1~10V, VR or AC Step Dimming (On / Off)
Protection : OCP, SCP, OTP - Auto Recovery ; OVP- Latch off
Suitable for Dry, Damp Locations, IP66 ; Convection Cooled in plastic housing
Five Years Warranty (Life @ Tc : 80°C 40,000 Hours)

Certifications

UL8750 Class 2, UL1012, cUL (Type HL), FCC B, CB, PSE,
CE (EN55015, EN61547, EN61347-2-13, EN61000-3-2 class C)

Specifications

AC Input Range : 100~277Vac / 0.8A / 47~63Hz	PF > 0.92, THD < 20%: Input 100~230Vac, Load > 70%
Input Inrush Current : < 20A / 115Vac, < 40A / 230Vac	PF > 0.92, THD < 20% : Input 277Vac, Load > 80%
Leakage Current : < 0.75mA / 230Vac, Surge Immunity : 4KV	Efficiency:15V/82%, 24V/83%, 36V/84%, 48V/85%, 88V,160V/86% at 115Vac full load
Turn on delay time : < 0.5 Sec. at 110Vac	Load Regulation : ±5%, DC Output Ripple/Noise p-p : 5%
Operation Temp. : -40°C ~ +50°C, Tc : 90°C; Storage Temp.: -40°C ~ +85°C	MTBF(@50°C) : > 50,000 Hours, MIL-217F

Model List

Model	Constant Voltage Mode (CV)		Constant Current Mode (CC)		Max. Watts (UL Safety)
	Fixed Output Voltage Range	Output Current Range	Fixed Output Current Range	Output Voltage Range	
LF1048-15	9 ~ 16.5V	280 ~ 3500mA	1400 ~ 3500mA	8 ~ 16.5V	42W (cUL- class 2)
LF1048-24	15 ~ 26.4V	200 ~ 2400mA	1000 ~2400mA	12 ~ 26.4V	48W (cUL- class 2)
LF1048-36	24 ~ 39.6V	135 ~1700mA	700 ~1700mA	18~ 39.6V	48W (cUL- class 2)
LF1048-42	26 ~ 42V	120 ~1330mA	600 ~1330mA	26~ 42V	53W (cUL- class 2)
LF1048-48	36 ~ 54V	100 ~1200mA	500 ~1200mA	30 ~ 54V	53W (cUL- class 2)
LF1048-88 (Note 2)	N/A		300 ~750mA	40 ~ 88V	53W (cUL)
LF1048-160 (Note 2)	N/A		200 ~ 420mA	75 ~ 160V	53W (cUL)

Note 1 : We can provide any fixed output current or voltage between 200 ~ 3500mA or 9 ~ 54V to meet customers' requirements.
Note 2: 1631-ON / OFF AC Step Dimming function can not be for Model LF1048-88 and LF1048-160

Model Information

LF1048 - XX-Cnnnn-DDDD

1048 = Single DC Output, 42~53 Watts Max. XXX = Voltage Output, 15 = 15V,... , 160 = 160V.

Cnnnn = (Optional or blank) Constant Current Output, C3500 = 3500mA,... , C0200 = 200mA.

DDDD = (Optional or blank) for Constant Current (Current dimming mode) or Constant Voltage (PWM dimming mode, 290Hz)

1631 = ON / OFF AC Step Dimming (ON / OFF timing 1.5 Sec.) (Note 2)

010V = 1~10Vdc (10% ≤ 1V, 10~100%, Purple / D+,

Gray / D-, Yellow / 10Vdc / 10mA);

or VR (10K~100KΩ, D+, D- 10V)

Dimming CTL. 10Vdc output can connect 20 sets of PSUs by parallel. (Dimming function- min. 10% of full load; 4~5 Watts / Min load.)

(Dimming : Refer to Dimming Instruction- B & C)

Mechanical Drawing

Case Dimension : 142(L), 47(W), 32(H)mm

Weight : 370g typical

CUFT : 0.015' / ea

