

LED Driver

Product Specifications

LP1056-xx Series Switch-Mode LED Driver

Maximum Power	60 Watts
Input Voltages	100 ~ 277 VAC
Number of Outputs	One

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SPECIAL FEATURES

- UL8750 and CE approved
- Single output, constant current or constant voltage design
- IP66 compliant
- Suitable for dry and damp location applications
- Designed for outdoor or indoor applications
- Compatible with 0-10V dimming controller
- Active PFC reduces power consumption

ENVIRONMENTAL

Operating temperature: -40 to 50 °C
(De-rating : 2% per °C from 50~70°C)

Storage temperature: -40 to +85° C

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

Cooling: Convection

Vibration Frequency: 5 to 50 Hz

MTBF: >50,000 Hours at full load and 50°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 ~ 277 VAC / 0.8 ~ 0.4A
Frequency	50 to 60 Hz
PF and THD	> 0.92 at full load, 115VAC; <20% full load, 230VAC
Crest Factor	1.4 max.
Inrush current	20.0 Amps maximum at 230VAC, cold start, 25° C
Efficiency	87% typical at maximum load
EMI filtering	47CFR, Part 2, Part 15 and CispR PUB, 22 Class B
Maximum power	60W
Turn on time	< 1.0 sec. @ 115VAC
Load regulation	±5%
Leakage Current	0.75μA / 230VAC, Surge Immunity: 4KV
Hold up time	Half cycle minimum at 120 VAC and 80% of rated load
Protection	OVP, OCP, OTP (limit-CC) and SC : Auto-recovery

SAFETY (PENDING)

UL	UL8750, Class 2 recognized
cUL	UL8750, Class 2 recognized
CE	EN61347, EN55015 approved

Model Number	Constant Voltage Mode			Model Number	Constant Current Mode		
	V (DC)	Load (mA)	Watts		V (DC)	mA(Max.)	Watts
LP1056-24	24	300 ~ 3000	60	LP1056-24-Cxxxx	14 ~ 28	1500~2100/3000	60
LP1056-36	36	200 ~ 2000	60	LP1056-36-Cxxxx	21 ~ 42	1000~1400/2000	60
LP1056-48	48	150 ~ 1500	60	LP1056-48-Cxxxx	30 ~ 54	700~1100/1500	60
LP1056-112	N/A			LP1056-112-Cxxxx	56 ~ 112	500 ~ 700	60

Note:

The output voltage are adjusted at factory per customer's request

The output current of Constant Current models can be adjustable at factory from 50% ~ 100%.

0-10V dimming only applied to constant current models

MODEL INFORMATION – SINGLE DC OUTPUT

LP1056-XX – Constant Voltage Model

XX – Available Output Voltage, refer to chart above

LP1056-XX-CYYYY-DDDD – Constant Current Model

C – Stands for Constant Current Model

XX – Available Output Voltage

YYYY – Available Constant Current Settings, 350mA or 700mA or 1050mA

DDDD (optional) – 010V = 0~10V dimming, VR = 10K-100KΩ potentiometer, 10V PWM = PWM D+/D- signals

MECHANICAL 95(L) 70(W) 32(H)

