

LED Driver

Preliminary Product Specifications

ANZ#: Z197, February 16, 2012

LP1026-xx Series	
Switch-Mode LED Driver	
Maximum Power	30 Watts
Input Voltages	100 ~ 277 VAC
Number of Outputs	One

SPECIAL FEATURES

- UL8750, Class 2 recognized
- Single output, constant current or constant voltage design
- IP65 compliant
- Suitable for dry and damp locations
- Designed for outdoor or indoor applications
- Suitable in standard electrical junction boxes
- Active PFC reduces power consumption

ENVIRONMENTAL

Operating temperature: -30 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: >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 ~ 304 VAC
 Frequency 47 to 63 Hz
 PF and THD > 0.92 at full load, 115VAC; <20% full load, 230VAC
 Crest Factor 1.5 max.
 Inrush current 10.0 Amps maximum at 230VAC, cold start, 25° C
 Input current 0.4 Amps maximum at 115VAC
 Efficiency 85% typical at maximum load
 EMI filtering 47CFR, Part 2, Part 15 and Cispr PUB, 22 Class B
 Maximum power 30W
 Turn on time < 1.5 sec. @ 115VAC
 Load regulation ±5%
 Leakage Current 0.75uA / 230VAC, Surge Immunity: 4KV
 Hold up time Half cycle minimum at 120 VAC and 80% of rated load
 Protection Over-voltage, Over current and Short circuit protection: Auto-recovery

SAFETY

UL UL8750, Class 2 recognized (Pending)
 cUL UL8750, Class 2 recognized (Pending)
 CE EN61347, EN55015 compliant

Model Number	Constant Voltage Mode			Model Number	Constant Current Mode		
	Output Range				Output Range		
	V (DC)	A (mA)	Watts		V (DC)	mA(Max.)	Watts
LP1026-15	10 ~ 18	220 ~ 2200	24	LP1026-15-Cxxxx	8 ~ 18	800~1350/2200	24
LP1026-24	18 ~ 28	150 ~ 1500	30	LP1026-24-Cxxxx	12 ~ 28	500~1070/1500	30
LP1026-36	28 ~ 42	100 ~ 1000	30	LP1026-36-Cxxxx	20 ~ 42	400~700/1000	30
LP1026-48	38 ~ 54	75 ~ 750	30	LP1026-48-Cxxxx	30 ~ 54	300~560/750	30
LP1026-86	N/A			LP1026-86-Cxxxx	45 ~ 86	200~350/530	30

Note:

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

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

Model 15, 24, 36 are UL/cUL compliant ; Model 48 and 86 are UL compliant

MODEL INFORMATION – SINGLE DC OUTPUT

LP1026-XX – Constant Voltage Model

XX – Available Output Voltage, refer to chart above

LP1026-XX-C (YYYY) – Constant Current Model

C – Stands for Constant Current Model

XX – Available Output Voltage

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

MECHANICAL DRAWING

