

LED Driver

Product Specifications

ANZ#: Z095f, December 11, 2006

LP1020-xx Series Switch-Mode LED Driver	
Total Power	20 Watts
Input Voltages	90 ~ 264 VAC
Number of Outputs	One

SPECIAL FEATURES

- UL1310, Class 2 and UL48 compliant
- Single output, constant current or constant voltage design
- IP66 compliant
- Suitable for damp location
- Designed for outdoor or indoor applications
- Suitable in standard electrical junction boxes
- Compact, lightweight
- Active PFC reduces power consumption

ENVIRONMENTAL

Operating temperature: -30 to 60 °C
(De-rating : 1% per ° C from 60~70°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

ELECTRICAL SPECIFICATIONS

Input range 90 ~ 264 VAC
Frequency 47 to 63 Hz
Power Factor > 0.92 at full load, 115VAC
Crest Factor 1.5 max.
Inrush current 10.0 Amps maximum at 230VAC, cold start, 25° C
Input current 0.3 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 20W
Current Accuracy ±1% (when applicable)
Load regulation ±3%
Leakage Current 300uA typ.
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

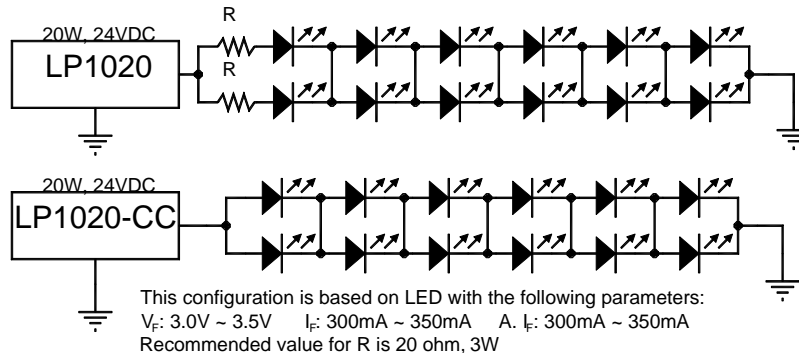
SAFETY

UL UL1310, Class 2 and UL48 certified
cUL UL1310, Class 2 and UL48 certified
CE

Model Number	Constant Voltage Mode			Model Number	Constant Current Mode		
	V (DC)	Output			V (DC)	Output	
		A (mA)	Watts		V (DC)	mA(Max.)	Watts
LP1020-36	36, ±5%	550	20	LP1020-36-Cxxxx	18~ 36	550, ±5%	20
LP1020-24	24, ±5%	830	20	LP1020-24-Cxxxx	12~ 24	830, ±5%	20
LP1020-22	22, ±5%	910	20	LP1020-22-Cxxxx	12 ~ 22	910, ±5%	20
LP1020-18	18, ±5%	1100	20	LP1020-18-Cxxxx	9 ~ 18	1100, ±5%	20
LP1020-17	17, ±5%	1250	20	LP1020-17-Cxxxx	9 ~ 17	1250, ±5%	20
LP1020-15	15, ±5%	1330	20	LP1020-15-Cxxxx	9 ~ 15	1330, ±5%	20
LP1020-13	13, ±5%	1540	20	LP1020-13-Cxxxx	7 ~ 13	1540, ±5%	20
LP1020-12	12, ±5%	1660	20	LP1020-12-Cxxxx	7 ~ 12	1660, ±5%	20
LP1020-10	10, ±5%	2000	20	LP1020-10-Cxxxx	7 ~ 10	2000, ±5%	20

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

RECOMMEND APPLICATION SCHEMATICS



MECHANICAL DRAWING

Model Information – Single DC output

LP1020-XX – Constant Voltage Model

XX – Available Output Voltage, refer to chart above

LP1020-XXC (YYY) – Constant Current Model

C – Stands for Constant Current Model

XX – Available Output Voltage

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

AC input cable

AWG #20, two conductors UL PLTC type or equiv.

DC output cable

AWG #20, two conductors UL PLTC type or equiv.

