#### **Features**

#### **Wiring Diagram**

- Constant Current Output
- 0-10V Dimming
- Class 2 Compliance
- Damp Location
- 5 Year Warranty
- Hot Wire Protection
- Supporting DIM TO OFF Capability
- Soft-ON

# INPUT G Driver 0-10V Dimmer

#### **Mechanical and Thermal**

Dimensions L19.067" X W0.83" X H0.72"

Weight 200g

Lead Wire Length Terminals

Max. Case Operation Temp.

#### **Protection**

- -Auto-reset electronic short circuit
- -Overload protection
- -Class 2

%08

- -Inherent Thermal Protection
- -Hot Wire Protection

## 471,50 [18,563] 428,00 [16,850] 484,30 [19,067] 21,09 [0,830]

\*Dimension in Metric(Inch)

#### **Environmental Specifications**

-Operating Temperature -20° to 60°C

-Storage Temperature -20° to 70°C

-MTBF >100,000 hrs

-Lead Free SMT process



Note -

1. UL file No.: E340871



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#### 1. Input – specification

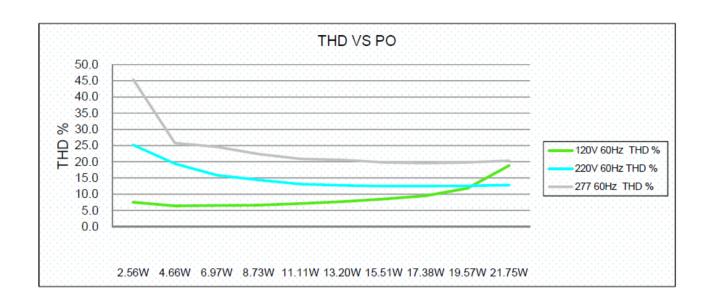
1. Input – specification						
	Units	Minimum	Typical	Maximum	Notes	
Input Voltage Range(Vin)	Vac	102	120-277	305		
Input Frequency Range	Hz	50	60	63		
Input Power	W		39			
Power Factor(PF)		0.9	>0.9		Nominal LED voltage	
Input Current	А	-	-	0.33A@120VAC 0.14A@277VAC		
Inrush Current	А			4 A peak	According to IEC 60555	
Total Harmonics Distortion (THD)				< 20%	At nominal input voltage and nominal LED voltage	
Efficiency		-	> 80%	-	Efficiency is measured after driver has thermally stabilized + full load	
Isolation	Meet UL1310/UL8750 for class 2 isolation power supply					

2. Output - specification						
	Units	Minimum	Typical	Maximum	Notes	
Output Voltage(Volt)	Vdc	18		35		
Output Current(lout)	mA		1000		Adjustable current setting; please refer to the current setting table	
Output Current Tolerance	%		±3			
					≤20% pk-to-pk of the rated output current for all models with Vout max≥32V	
Output Ripple Current		< 20% pe	eak-to-peak of	1000mA	≦50% pk-to-pk of the rated output current for all models with Vout max≦30V	
					At nominal LED voltage and nominal input voltage without dimming	
Dimming Range	%	3%		100%	Please refer to Dimmer compatibility list	
Star-up Time			750		With nominal LED voltage and without dimmer attached	
	ms		800		With nominal LED voltage, with an recommended dimmer attached(see dimmer compatibility list) and at the full dimming conduction angle	
Isolation	Meet UL1310/UL8750 for class 2 isolation power supply					
Operation Case Temperation	°C	-30		80C		

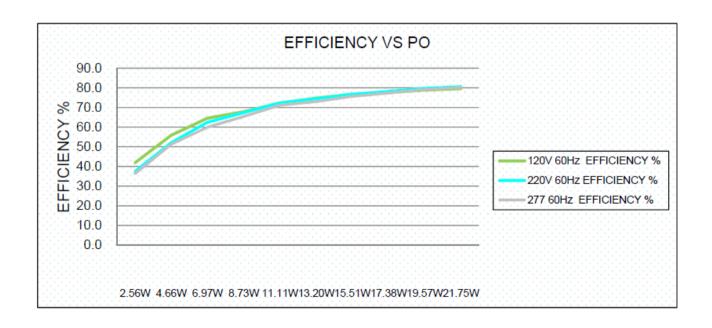
#### 3. EMC / Protection / Compliance

Conducted and Radiated EMI		FCC CFR Title 47 Part 15 Class B and EN55022(CISPR 22) Class B compliant			
Immunity Compliance	ESD (Electrostatic Discharge)	IEC61000-4-2	6 kV contact discharge, 8 kV air discharge, level 3		
	Electrical Fast Transient	IEC61000-4-4	±2 kV on AC power port for 1 minute, ±1kV on signal/control lines		
	Surge	IEC61000-4-5	±1kV line to line/±2kV line to earth on AC power port, ±0.5kV for outdoor cables		
Transient Protection	Ring Wave		ANSI/IEEE c62.41-1-2002 & c62.41-2-2002 category A, 2.5kV ring wave		

### THD of the driver VS Power Output (W)

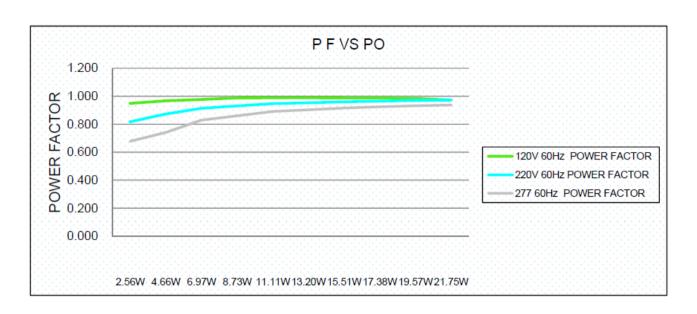


#### Efficiency of the driver VS Power Output (W)

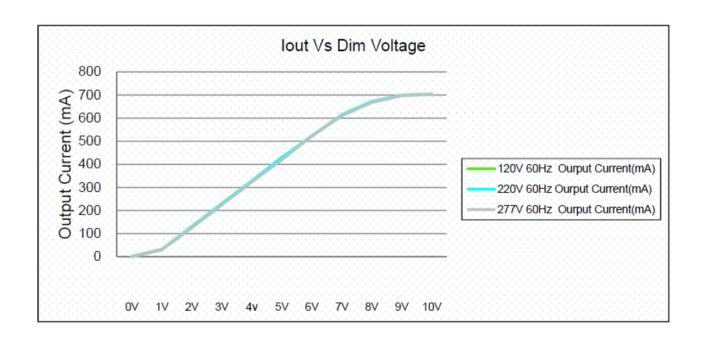




### Efficiency of the driver VS Power Output (W)



#### Lout of the driver VS Dim Voltage

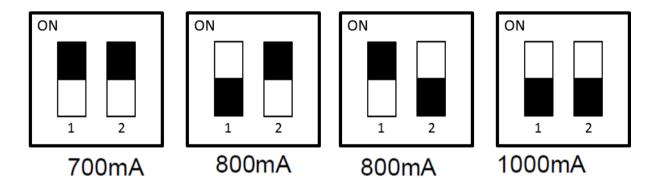




#### **Current Settings:**

LED Current Tolerance over temperature and component variations is  $\leq$ 5% at any level.

The output current of the driver can be adjusted using the two dip switches provided on the top of the driver. The below pictures shows the switch positions required to set the current to different levels.



The driver will be shipped out of factory with both switches set to ON (700mA)



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