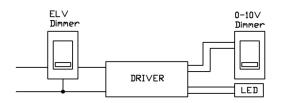
Features

Wiring Diagram

- -Constant Current Output
- -TRI 0-10V & TRIAC/ELV Dimming
- -Class 2 Compliance
- Damp Location
- 5 Year Warranty

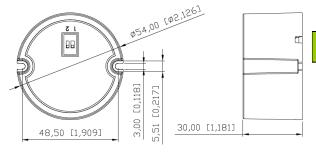


Mechanical and Thermal

Dimensions Φ =2.126,H=1.181"

Weight 60g

Lead Wire Length 6.7"



* Dimension in Inch

Protection

- -Auto-reset electronic short circuit
- -Overload protection
- -Class 2
- -Inherent Thermal Protection

Environmental Specifications

-Operating Temperature -20° to 60°C

-Storage Temperature -200 to 700C

-MTBF >100,000 hrs

-Lead Free SMT process



Note -

1. UL File No.: E340871



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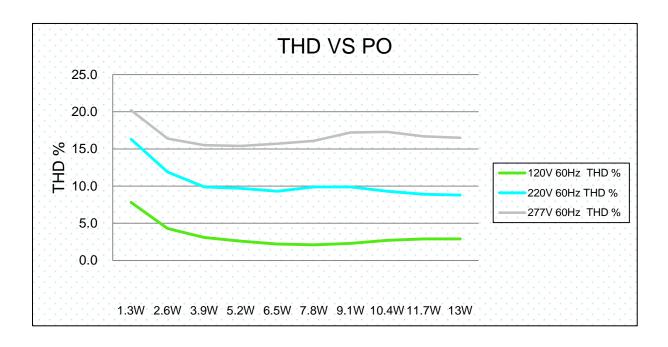
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1. Input – specification

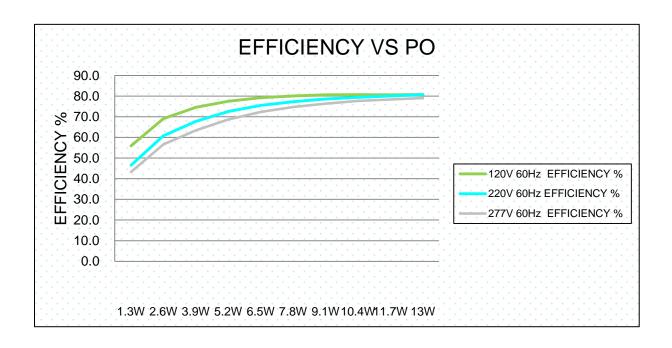
| | Units | Minimum | Typical | Maximum | Notes | |
|--|---|----------|--------------------|------------------------------|---|--|
| Input Voltage Range(Vin) | Vac | | 120-277 | | | |
| Input Frequency Range | Hz | 50 | 60 | 63 | | |
| Input Power | W | | 15 | | | |
| Power Factor(PF) | | 0.9 | >0.9 | | Nominal LED voltage | |
| Input Current | А | - | - | 0.13A@120VAC 0.05A@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 | 10 | | 18 | | |
| Output Voltage(Volt) Output Current(lout) | Vdc mA | 10 | 700 | 18 | Adjustable current setting; please refer to the current setting table | |
| | | 10 | 700 ±3 | 18 | | |
| Output Current(lout) | mA | 10 | | 18 | | |
| Output Current(lout) | mA | | | | the current setting table ≤20% pk-to-pk of the rated output current | |
| Output Current (lout) Output Current Tolerance | mA | | ±3 | | the current setting table ≤20% pk-to-pk of the rated output current for all models with Vout max≥32V ≤50% pk-to-pk of the rated output current | |
| Output Current (lout) Output Current Tolerance | mA | | ±3 | | the current setting table ≤20% pk-to-pk of the rated output current for all models with Vout max≥32V ≤50% pk-to-pk of the rated output current for all models with Vout max≤30V At nominal LED voltage and nominal input | |
| Output Current (lout) Output Current Tolerance Output Ripple Current | mA % | < 20% pe | ±3 | f 700mA | the current setting table ≤20% pk-to-pk of the rated output current for all models with Vout max≥32V ≤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 | |
| Output Current (lout) Output Current Tolerance Output Ripple Current | mA % | < 20% pe | ±3 ak-to-peak o | f 700mA | the current setting table ≤20% pk-to-pk of the rated output current for all models with Vout max≥32V ≤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 Please refer to Dimmer compatibility list With nominal LED voltage and without | |
| Output Current (lout) Output Current Tolerance Output Ripple Current Dimming Range | mA % % | < 20% pe | ±3 ak-to-peak o | f 700mA | the current setting table ≤20% pk-to-pk of the rated output current for all models with Vout max≥32V ≤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 Please refer to Dimmer compatibility list With nominal LED voltage and without dimmer attached With nominal LED voltage, with an recommended dimmer attached(see dimmer compatibility list) and at the full dimming conduction angle | |

| 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)



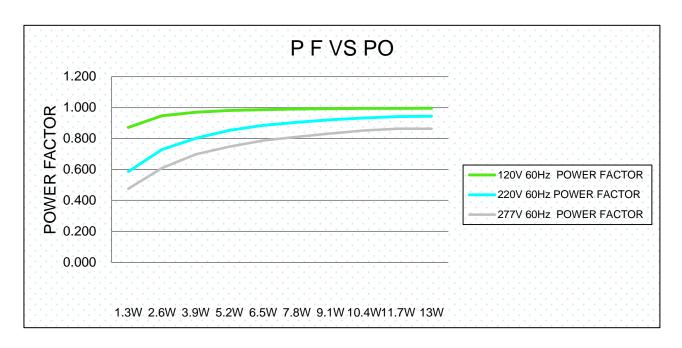


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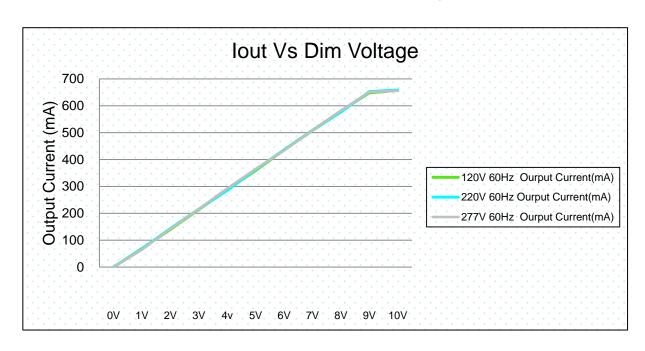
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Power Factor VS Power Output (W):



Lout of the driver VS Dim Voltage





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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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