



SPECIFICATIONS



Note-

1. UL file: E340871

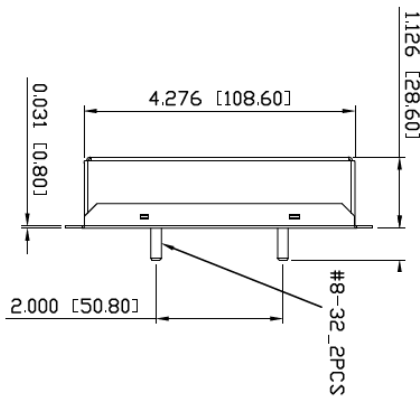
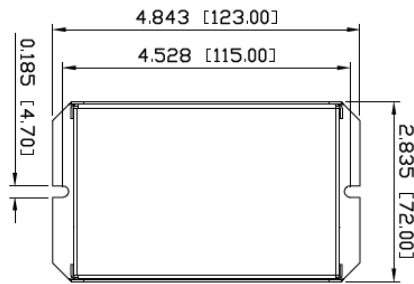


Mechanical and Thermal

Dimensions L4.843" x W2.835" x H1.126"

Weight 500g

Lead Wire Length 6"



Dimension in Inch/ Metric

MDR-701-1000-40-J8

Features

- ✓ 0-10V & TRIAC/ELV Dimmable in 1
- ✓ Compact size
- ✓ Low profile
- ✓ Constant Current Output
- ✓ Active Power Factor
- ✓ Class 2 compliance
- ✓ 5 Year Warranty
- ✓ Universal Input (Dim on 120V For TRIAC/ELV & 120/277V For 0-10V)
- ✓ Ultra Slow Ripple
- ✓ Hot Wire Protection

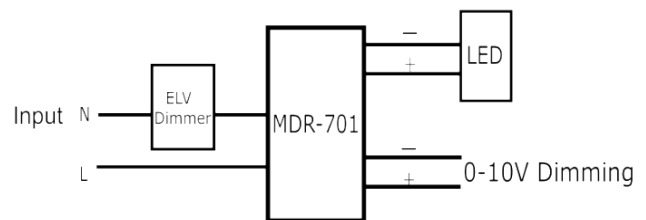
Protection

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

Environmental Specifications

- Operating Temperature -20° to 60°C
- Storage Temperature -20° to 70°C
- MTBF >100,000 hrs
- Lead Free SMT process

Wiring Diagram



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 | | 45 | | |
| Power Factor(PF) | | 0.9 | >0.9 | | Nominal LED voltage |
| Input Current | A | - | - | 0.38A@120VAC 0.16A@277VAC | |
| Inrush Current | A | | | 4 A peak | According to IEC 60555 |
| Total Harmonics Distortion (THD) | | | | < 20% | At nominal input voltage and nominal LED voltage |
| Efficiency | | - | > 85% | - | Efficiency is measured after driver has thermally stabilized + full load |
| Isolation | Meet UL1310/UL8750 for class 2 isolation power supply | | | | |

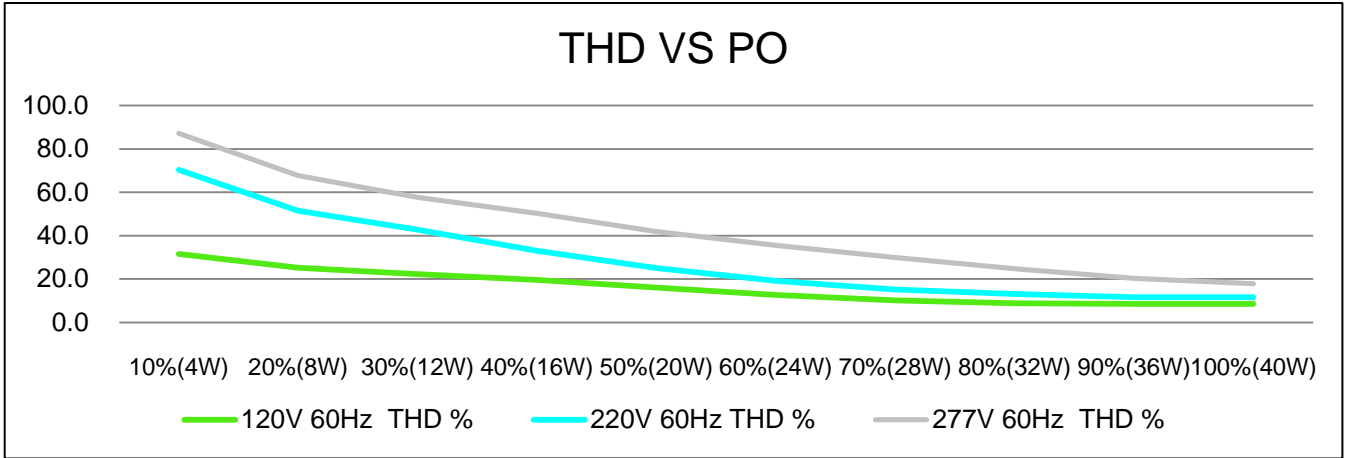
2. Output - specification

| | Units | Minimum | Typical | Maximum | Notes |
|----------------------------|---|---------|---------|---------|---|
| Output Voltage(Volt) | Vdc | 26 | | 40 | |
| Output Current(Iout) | mA | | 1000mA | | Adjustable current setting; please refer to the current setting table |
| Output Current Tolerance | % | | ±3 | | |
| Output Ripple Current | < 20% peak-to-peak of 1000mA | | | | ≤ 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 |
| Dimming Range | % | 5% | | 100% | Please refer to Dimmer compatibility list |
| Star-up Time | ms | | 350 | | With nominal LED voltage and without dimmer attached |
| | | | 400 | | 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 | | 80 | |

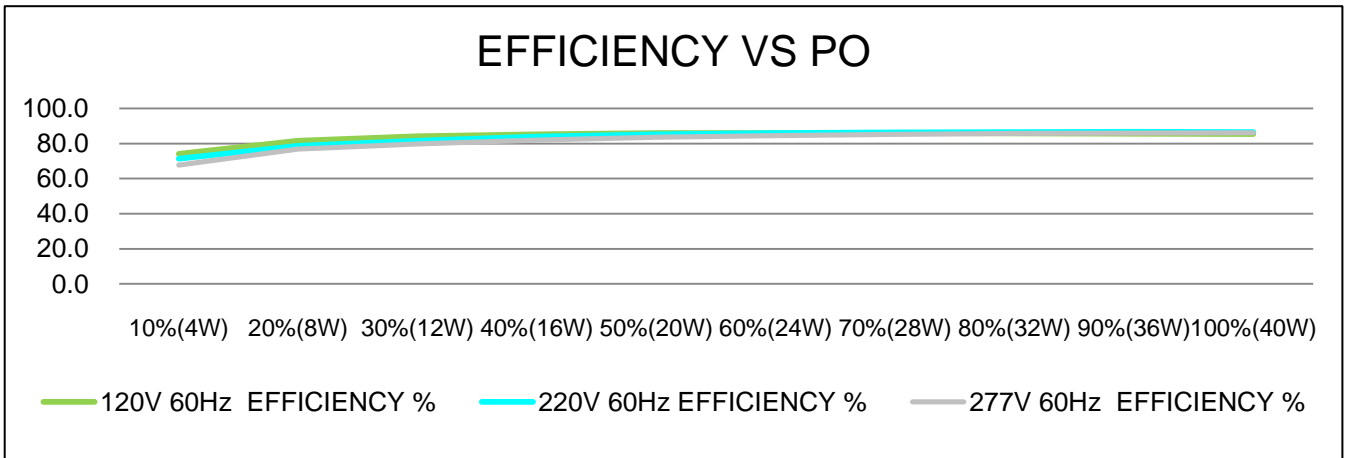
3. EMC / Protection / Compliance

| 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 | | |

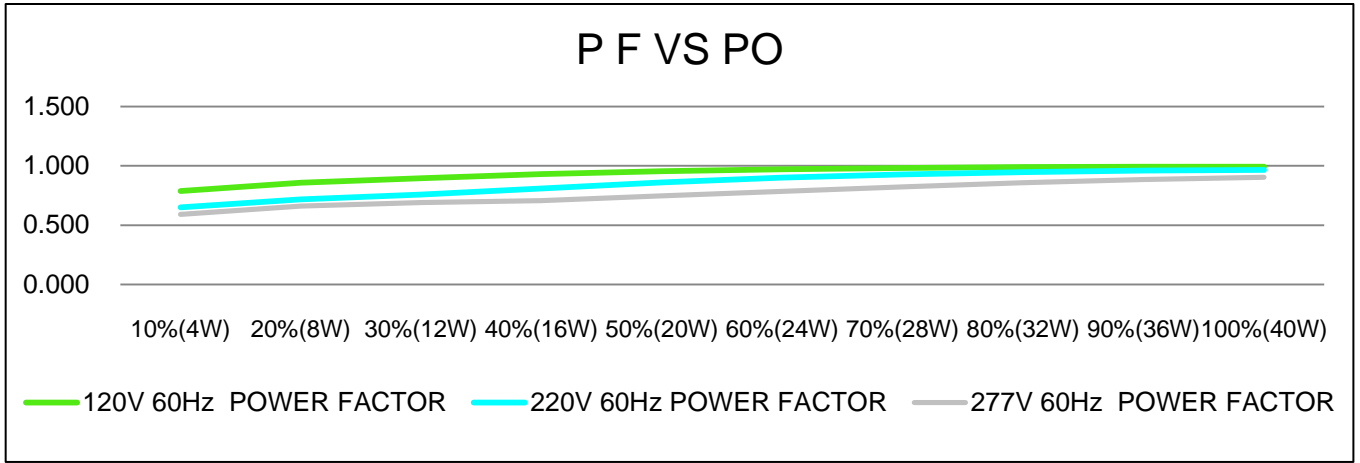
THD of the driver VS Power Output (W)



Efficiency of the driver VS Power Output (W)



Power Factor VS Power Output (W):



0-10V Dim Voltage(V) VS Output Current

