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| MOONS' | RELEASE DEPARTMENT: R&D | PAGE: 1 of 5 |
| | TITLE: <div style="text-align: center;">MU096A024AP SPECIFICATIONS</div> | |
| | | REVISION: A0 |

Doc. No.: MSSD-3095_02 A0

LED DRIVER SPECIFICATIONS

Part Description: Input: 90Vac ~ 305Vac, Output: 24Vdc/4000mA (max.)

Customer's Part Number:

MOONS' Part Number: MU096A024AP

Customer:

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| <p>Company:</p> <p>Department:</p> <p>Approved by:</p> <p>Date:</p> |
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EDITED:

DATE:

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STANDARD:

DATE:

APPROVED:

DATE:

SHANGHAI MOONS' AUTOMATION CONTROL Co., LTD.



Features

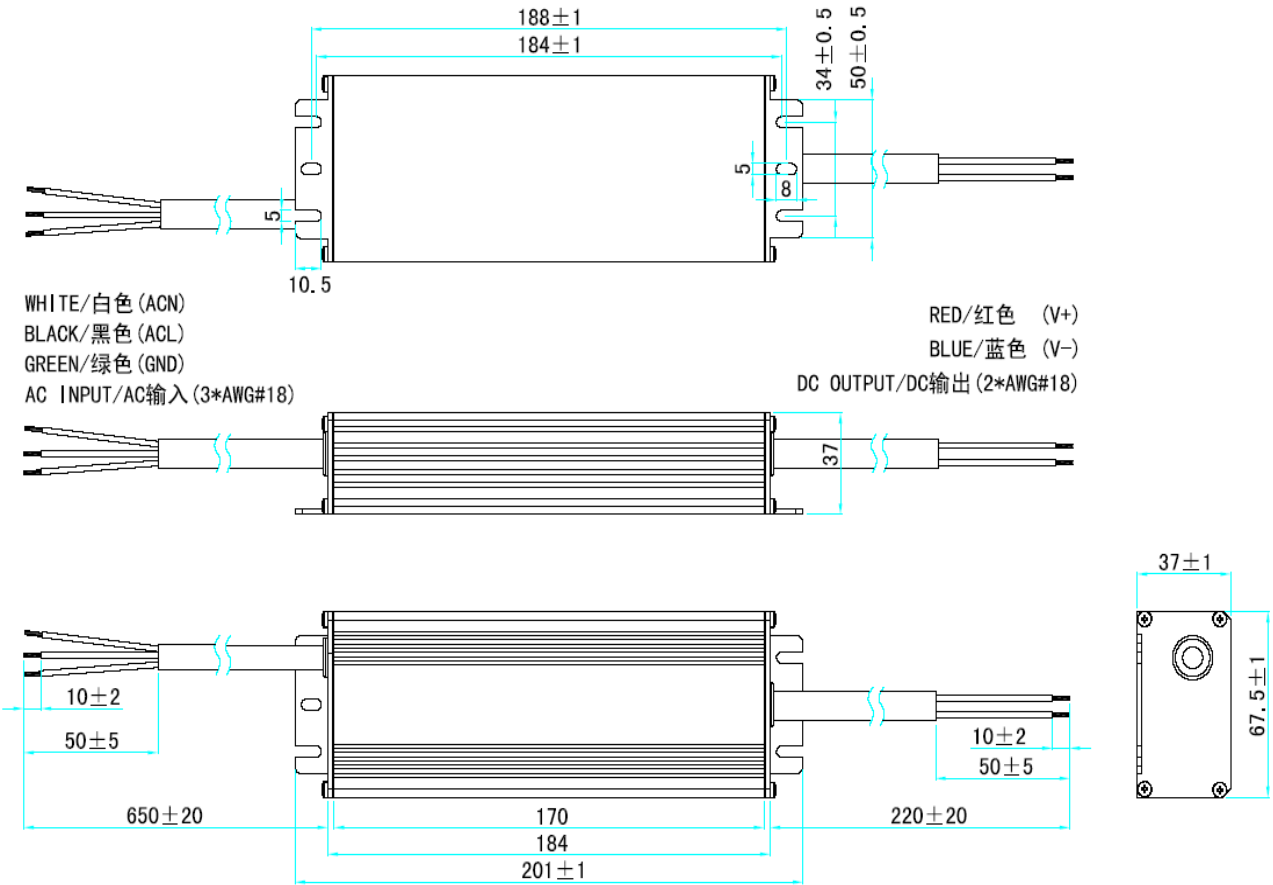
- Input voltage: 90-305Vac
- Built-in active PFC function: 0.99 Typ.
- High efficiency: 87% Typ.
- IP67 design for indoor or outdoor installations
- Lightning protection
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp/wet locations
- 5 Years Warranty

Specification

| Model (MU096A XXX AP) | | 024 |
|---------------------------------|-------------------------------------|---|
| Input | Efficiency(110Vac) | 84% (Typ.) |
| | Efficiency(220Vac) | 87% (Typ.) |
| | Voltage Range (Vac) | 90 ~ 305 |
| | Frequency Range (Hz) | 47~63 |
| | Power Factor | 0.99(typ.) at 110Vac input, 0.96(typ.) at 220Vac input |
| | THD | < 20%, at 100 ~ 277Vac input, with 80% ~ 100% load conditions |
| | AC Current(Typ.) | 1.2A at 110Vac input, 0.6A at 220Vac input |
| | Inrush Current(Typ.) | 50A at 230Vac input 25 cold start |
| | Leakage Current(Typ.) | 0.75mA at 277Vac 50Hz input |
| Output | DC Voltage (V) | 24 |
| | Rated Current(mA) | 4000 |
| | Rated Power (W) | 96 |
| | Ripple&Noise (Vp-p) | 3.00 |
| | Current Range (mA) | 0~4000 |
| | Voltage Tolerance ^{Note.1} | 5% |
| | Line Regulation | 1% |
| | Load Regulation | 3% |
| | Setup, Rise Time | 3s, measured at 110Vac input; 1.5s, measured at 220Vac input |
| | Hold Up Time | 10ms at 220Vac 100% load |
| Protection | Over Voltage(V) | 29 (Max.) The voltage will not exceed the upper limit. After the cause of activation of over voltage removed, the power supply will be automatically recovered. |
| | Over Current | 100%~110%, Hiccup mode. The power supply shall be self-recovery when the fault condition is removed. |
| | Short Circuit | damage shall occur when any output operating in a short circuit confition.The power supply shall be self-recovery when the fault is remov |
| | Over Temperature | When the inside temperature of PSU rise to 100~130 ,the PSU will shutdown. The power supply should resume it's normal operation when the inside temperature of PSU drop to normal temperature. |
| Environment | Working Temp. | -35~+70 |
| | Working Humidity | 10~100%RH, non-condensing |
| | Storage Temp., Humidity | -40~+85 , 5-100%RH |
| | Temp. Coefficient | 0.03%/ (0~50) |
| | Vibration | 10-500Hz, 5G 12min/cycle, period for 72min each along X、 Y、 Z axes |
| Safety & EMC | Safety Standard | UL8750, UL1012, UL1310 Class 2,CSA-C22.2 No. 107.1, CSA C22.2 NO. 223-M91 Class 2,EN61347-1, EN61347-2-13 |
| | Withstand Voltage | I/P-O/P:3.75KVac I/P-FG:1.5KV O/P-FG:0.5KV |
| | Isolation Resistance | I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500Vdc/25 /70%RH |
| | EMC Emission | EN55015/FCC Part 15 Class B, EN61000-3-2 Class C, EN61000-3-3 |
| | EMC Immunity | EN61000-4-2,3,4,5,6,8,11, EN61547 |
| Others | MTBF | 300,000 hours, measured at full load, 25 ambient temperature MIL-HDBK-217F(25) |
| | Dimension | 201 x 67.5 x 37 mm (LxWxH) |
| | Weight | 0.86kg |

Note.1: Includes set up tolerance, line regulation and load regulation.

Mechanical Specification



Label

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|--|---|--|---|
| <ul style="list-style-type: none"> ● AC/L BLACK ● AC/N WHITE ● FG GREEN | <p>MOONS' LED Driver Energy Saving Solutions</p> <p>MU096A024AP 96W</p> <p>Input Voltage : 100-277 Vac 50/60Hz Input Current : 1.2A Environmental Suitability: Damp</p> | <p>CE</p> <p>UL E350703</p> <p>IP67</p> <p>MADE IN CHINA</p> | <p>OUTPUT</p> <ul style="list-style-type: none"> ● V- BLUE ● V+ RED |
| | | | |

RoHS Compliance:

Our products comply with the European Directive 2002/95/EC, calling for the elimination of lead and other hazardous substances from electronic products.

Test Curve

Derating Curve

