



**Features**

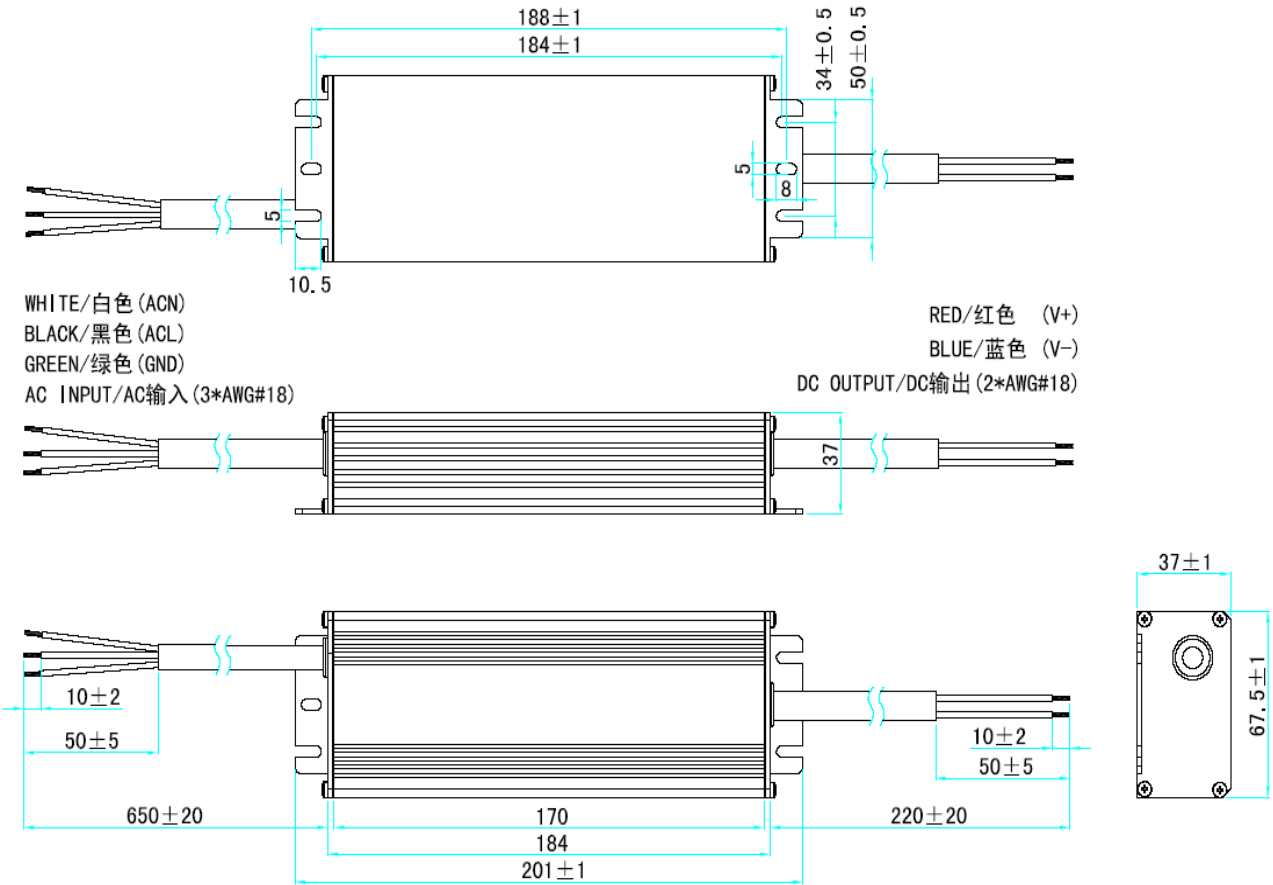
- Input voltage: 90-305Vac
- Built-in active PFC function: 0.99 Typ.
- High efficiency: 87% Typ.
- IP67 design for indoor or outdoor installations
- Lightning protection
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp/wet locations
- 5 Years Warranty

**Specification**

| Model<br>(MU096AxxxAP) |                                     | 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 <sup>Note.1</sup> | 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.)<br><br>The voltage will not exceed the upper limit.<br>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.<br>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**

|  |   |                                  |                    |                      |  |  |
|--|---|----------------------------------|--------------------|----------------------|--|--|
| <ul style="list-style-type: none"> <li>● AC/L BLACK</li> <li>● AC/N WHITE</li> <li>● FG GREEN</li> </ul> | <p><b>MOONS'</b> LED Driver<br/>Energy Saving Solutions</p> | <p>CE  <b>US</b><br/>E350703</p> | <p><b>IP67</b></p> | <p>MADE IN CHINA</p> | <p>INPUT</p>   | <p>V-<br/>BLUE</p>   |
|  |   |                                  |                    |                      | <p>MU096A024AP 96W</p> <p>Input Voltage : 100-277 Vac 50/60Hz<br/>Input Current : 1.2A<br/>Environmental Suitability: Damp</p> | <p>Output Voltage : 24Vdc<br/>Output Current : 4.00A(max)<br/>Tc: 90°C</p> |

**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**

