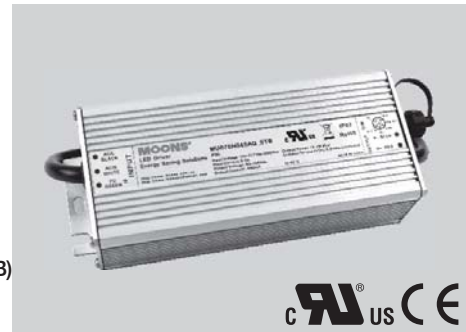


# MU075H Series

## Features

- Input voltage: 90-305VAC
- High efficiency: 91% typical
- Active PFC: 0.99 typical
- High surge immunity
- Low THD
- IP67 compliant
- Protections: OVP, OCP, OTP, SCP
- Constant Current / 0-10V Dimming / Clock Dimming(CLK) / Standby(STB)
- Compliance to worldwide safety regulations for lighting
- Suitable for dry/damp locations
- CUL / CE
- 5-year warranty



173 x 67.5 x 40mm

## Electrical Specifications

|                      |                                                                                             |
|----------------------|---------------------------------------------------------------------------------------------|
| Input voltage range  | 90~305VAC                                                                                   |
| Frequency            | 47~63Hz                                                                                     |
| Power factor         | 0.99 ( typical ) , > 0.90 100~277VAC input, 70%~100% load                                   |
| Input current        | 1A at 110VAC, 0.5A at 220VAC                                                                |
| Inrush current       | 50A MAX at 220VAC                                                                           |
| Leakage current      | 1mA MAX at 277Vac/60Hz input                                                                |
| Maximum output power | 75W                                                                                         |
| Line regulation      | ± 1%                                                                                        |
| Load regulation      | ± 3%                                                                                        |
| Start-up time        | <1.5s at 110VAC, <0.75s at 220VAC                                                           |
| Protections          | over voltage, over current, over temperature, short circuit: auto recovery                  |
| THD                  | < 10%, 220VAC, 50Hz input, 70%~100% load<br>< 15%, 110VAC/277VAC, 60Hz input, 70%~100% load |

## Environmental Specifications

|                                 |                                        |
|---------------------------------|----------------------------------------|
| Operating temperature           | -40℃ ~ +70℃                            |
| Operating humidity              | 20 ~ 95% RH                            |
| Storage temperature             | -40℃ ~ +80℃                            |
| Storage humidity                | 10 ~ 95% RH                            |
| Cooling method                  | convection                             |
| Isolation voltage               | input / output 3750VAC                 |
| MTBF                            | 300,000 hours full load at 25℃ ambient |
| Life time                       | 50,000 hours, 75℃ TC                   |
| Reference dimension (L x W x H) | 173 x 67.5 x 40 (mm)                   |
| Weight                          | 0.8 kg                                 |

## Safety & EMC Compliance

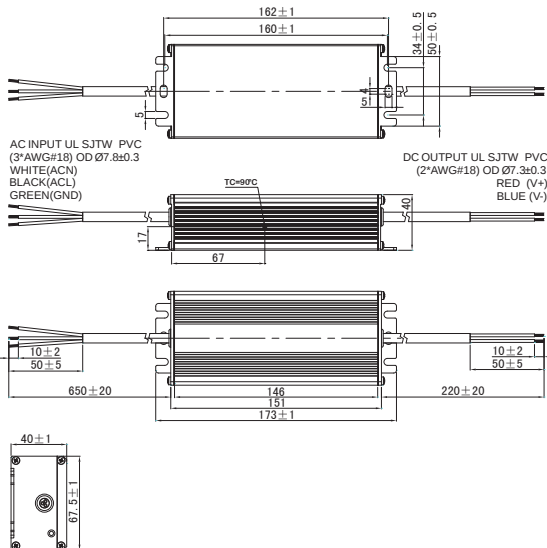
|                                     |                                                                    |
|-------------------------------------|--------------------------------------------------------------------|
| CUL                                 | UL8750, UL1012, UL1310, CSA-C22.2 NO. 107.1, CSA-C22.2 NO. 223-M91 |
| CE                                  | EN 61347-1, EN61347-2-13                                           |
| Conducted emissions                 | FCC Part15 / EN55015 Class B                                       |
| Radiated emissions                  | FCC Part15 / EN55015 Class B                                       |
| Harmonic current emissions          | EN61000-3-2                                                        |
| Voltage fluctuations and flicker    | EN61000-3-3                                                        |
| Electrostatic discharge             | EN61000-4-2                                                        |
| RFE field susceptibility            | EN61000-4-3                                                        |
| Electrical fast transient           | EN61000-4-4                                                        |
| Surge immunity test                 | EN61000-4-5 ( Surge: L-N, 4KV, L/N-Earth, 6KV )                    |
| Conducted radio frequency           | EN61000-4-6                                                        |
| Power frequency magnetic field test | EN61000-4-8                                                        |
| Voltage dips                        | EN61000-4-11                                                       |
| Electromagnetic immunity            | EN61547                                                            |

## Model Specifications

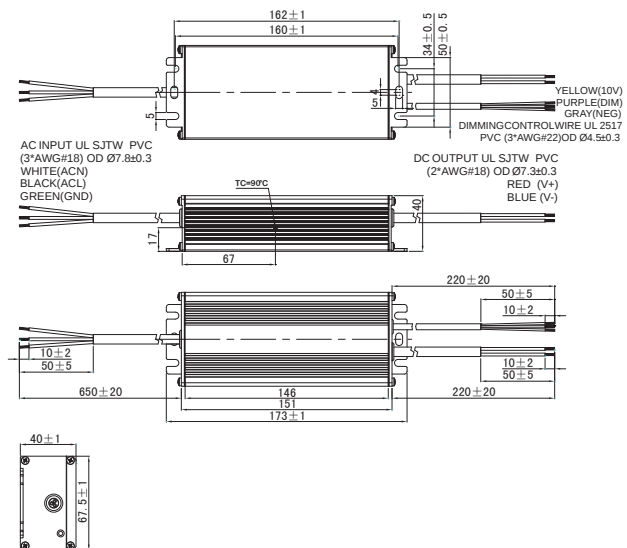
| Model            |                   |                 |                 | Output Current | Output Voltage | Current Accuracy | Efficiency (typical) |        |
|------------------|-------------------|-----------------|-----------------|----------------|----------------|------------------|----------------------|--------|
| Constant Current | 0-10V Dimming     | Clock Dimming   | Standby         |                |                |                  | 110Vac               | 220Vac |
| MU075H035AQ      | MU075H035AQ_0-10V | MU075H035AQ_CLK | MU075H035AQ_STB | 350mA          | 107-214VDC     | ± 5%             | 90.0%                | 91.0%  |
| MU075H045AQ      | MU075H045AQ_0-10V | MU075H045AQ_CLK | MU075H045AQ_STB | 450mA          | 83-166VDC      | ± 5%             | 90.0%                | 91.0%  |
| MU075H053AQ      | MU075H053AQ_0-10V | MU075H053AQ_CLK | MU075H053AQ_STB | 530mA          | 71-142VDC      | ± 5%             | 89.0%                | 90.0%  |
| MU075H070AQ      | MU075H070AQ_0-10V | MU075H070AQ_CLK | MU075H070AQ_STB | 700mA          | 54-108VDC      | ± 5%             | 89.0%                | 90.0%  |
| MU075H105AQ      | MU075H105AQ_0-10V | MU075H105AQ_CLK | MU075H105AQ_STB | 1050mA         | 36-72VDC       | ± 5%             | 89.0%                | 90.0%  |
| MU075H140AQ      | MU075H140AQ_0-10V | MU075H140AQ_CLK | MU075H140AQ_STB | 1400mA         | 27-54VDC       | ± 5%             | 88.0%                | 89.0%  |
| MU075H175AQ      | MU075H175AQ_0-10V | MU075H175AQ_CLK | MU075H175AQ_STB | 1750mA         | 21-42VDC       | ± 5%             | 88.0%                | 89.0%  |
| MU075H210AQ      | MU075H210AQ_0-10V | MU075H210AQ_CLK | MU075H210AQ_STB | 2100mA         | 18-36VDC       | ± 5%             | 87.0%                | 88.0%  |
| MU075H245AQ      | MU075H245AQ_0-10V | MU075H245AQ_CLK | MU075H245AQ_STB | 2450mA         | 15-31VDC       | ± 5%             | 87.0%                | 88.0%  |
| MU075H280AQ      | MU075H280AQ_0-10V | MU075H280AQ_CLK | MU075H280AQ_STB | 2800mA         | 13-27VDC       | ± 5%             | 86.0%                | 87.0%  |
| MU075H315AQ      | MU075H315AQ_0-10V | MU075H315AQ_CLK | MU075H315AQ_STB | 3150mA         | 12-24VDC       | ± 5%             | 86.0%                | 87.0%  |
| MU075H375AQ      | MU075H375AQ_0-10V | MU075H375AQ_CLK | MU075H375AQ_STB | 3750mA         | 10-20VDC       | ± 5%             | 85.0%                | 86.0%  |
| MU075H420AQ      | MU075H420AQ_0-10V | MU075H420AQ_CLK | MU075H420AQ_STB | 4200mA         | 9-18VDC        | ± 5%             | 85.0%                | 86.0%  |
| MU075H500AQ      | MU075H500AQ_0-10V | MU075H500AQ_CLK | MU075H500AQ_STB | 5000mA         | 7-15VDC        | ± 5%             | 84.0%                | 85.0%  |

## Mechanical Outline (unit: mm)

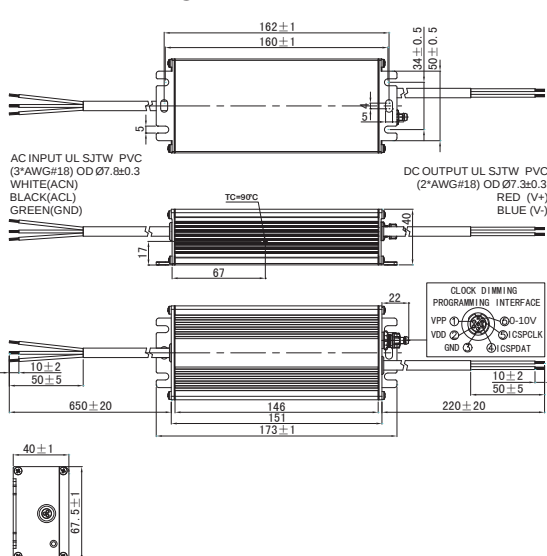
### Constant Current



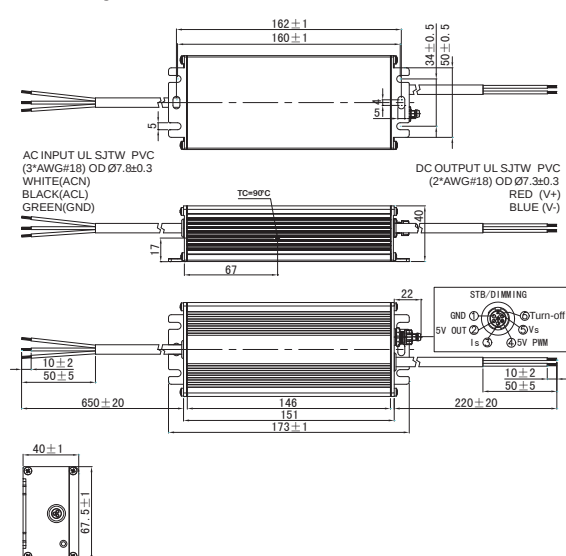
### 0-10V Dimming



### Clock Dimming



### Standby



Numbering System

LED Driver  
- General Series  
- Outdoor Use  
- A Series

LED Driver  
- General Series  
- Outdoor Use  
- H Series

LED Driver  
- General Series  
- Outdoor Use  
- Half Potting Series

LED Driver  
- General Series  
- Outdoor Use  
- H Series

LED Driver  
- General Series  
- Indoor Use

LED Driver  
- Intelligent Series  
- 50W Intelligent Series

LED Driver  
- Intelligent Series  
- 30W Intelligent

LED Driver  
- Programmable Series  
- Clock Control Series

General Power Supplies  
- MF Series

SPD

Appendix