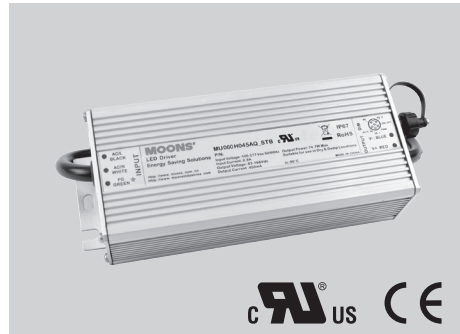


# MU060H Series

## 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(CLKS)/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, 75%~100% load                                      |
| Input current        | 0.8A at 110VAC, 0.4A at 220VAC                                                                |
| Inrush current       | 50A MAX at 230VAC                                                                             |
| Leakage current      | 0.75mA at 277Vac/60Hz input                                                                   |
| Maximum output power | 60W                                                                                           |
| 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 Class B / EN55015                                       |
| Radiated emissions                  | FCC Part15 Class B / EN55015                                       |
| 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 |
| MU060H035AQ      | MU060H035AQ_0-10V | MU060H035AQ_CLKS | MU060H035AQ_STB | 350mA          | 85-170VDC      | ± 5%             | 90.0%                | 91.0%  |
| MU060H045AQ      | MU060H045AQ_0-10V | MU060H045AQ_CLKS | MU060H045AQ_STB | 450mA          | 67-134VDC      | ± 5%             | 90.0%                | 91.0%  |
| MU060H053AQ      | MU060H053AQ_0-10V | MU060H053AQ_CLKS | MU060H053AQ_STB | 530mA          | 56-113VDC      | ± 5%             | 90.0%                | 91.0%  |
| MU060H070AQ      | MU060H070AQ_0-10V | MU060H070AQ_CLKS | MU060H070AQ_STB | 700mA          | 43-86VDC       | ± 5%             | 89.0%                | 90.0%  |
| MU060H105AQ      | MU060H105AQ_0-10V | MU060H105AQ_CLKS | MU060H105AQ_STB | 1050mA         | 29-58VDC       | ± 5%             | 89.0%                | 90.0%  |
| MU060H140AQ      | MU060H140AQ_0-10V | MU060H140AQ_CLKS | MU060H140AQ_STB | 1400mA         | 21-43VDC       | ± 5%             | 88.0%                | 89.0%  |
| MU060H175AQ      | MU060H175AQ_0-10V | MU060H175AQ_CLKS | MU060H175AQ_STB | 1750mA         | 17-35VDC       | ± 5%             | 88.0%                | 89.0%  |
| MU060H210AQ      | MU060H210AQ_0-10V | MU060H210AQ_CLKS | MU060H210AQ_STB | 2100mA         | 14-29VDC       | ± 5%             | 87.0%                | 88.0%  |
| MU060H245AQ      | MU060H245AQ_0-10V | MU060H245AQ_CLKS | MU060H245AQ_STB | 2450mA         | 12-25VDC       | ± 5%             | 86.0%                | 87.0%  |
| MU060H280AQ      | MU060H280AQ_0-10V | MU060H280AQ_CLKS | MU060H280AQ_STB | 2800mA         | 10-21VDC       | ± 5%             | 85.0%                | 86.0%  |
| MU060H315AQ      | MU060H315AQ_0-10V | MU060H315AQ_CLKS | MU060H315AQ_STB | 3150mA         | 9-19VDC        | ± 5%             | 84.0%                | 85.0%  |
| MU060H350AQ      | MU060H350AQ_0-10V | MU060H350AQ_CLKS | MU060H350AQ_STB | 3500mA         | 8-17VDC        | ± 5%             | 83.0%                | 84.0%  |
| MU060H420AQ      | MU060H420AQ_0-10V | MU060H420AQ_CLKS | MU060H420AQ_STB | 4200mA         | 7-14VDC        | ± 5%             | 82.0%                | 83.0%  |
| MU060H500AQ      | MU060H500AQ_0-10V | MU060H500AQ_CLKS | MU060H500AQ_STB | 5000mA         | 6-12VDC        | ± 5%             | 81.0%                | 82.0%  |

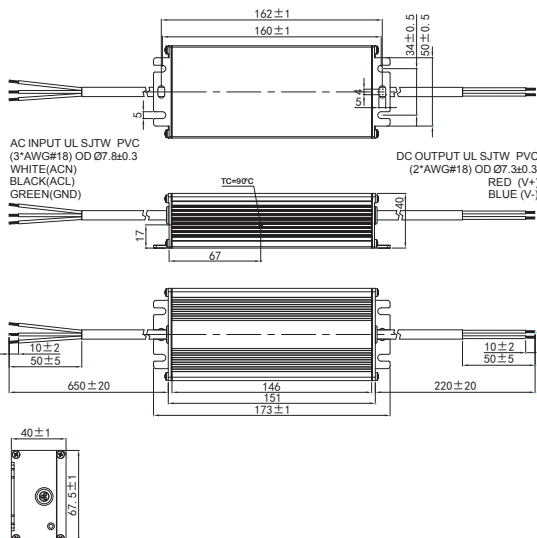
Remarks: 1.The function instruction can be found in the Appendix Page 151~Page 157.

2.For CLKS driver, there's two versions MU060HXXXAQ\_CLKS/W and MU060HXXXAQ\_CLKS/C. MU060HXXXAQ\_CLKS/W using 3 wires dimming port (programming port), MU060HXXXAQ\_CLKS/C using 3 pins water proof connector dimming port( programming port).

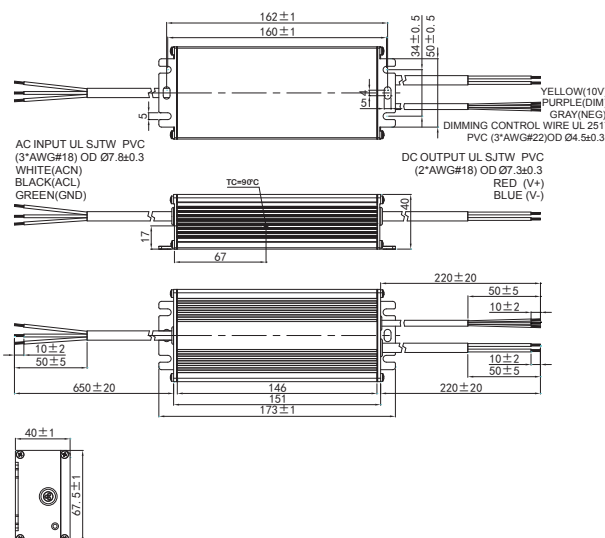
3.CLKS driver is compatible with charged configuration mode and uncharged configuration mode.

## Mechanical Outline (unit: mm)

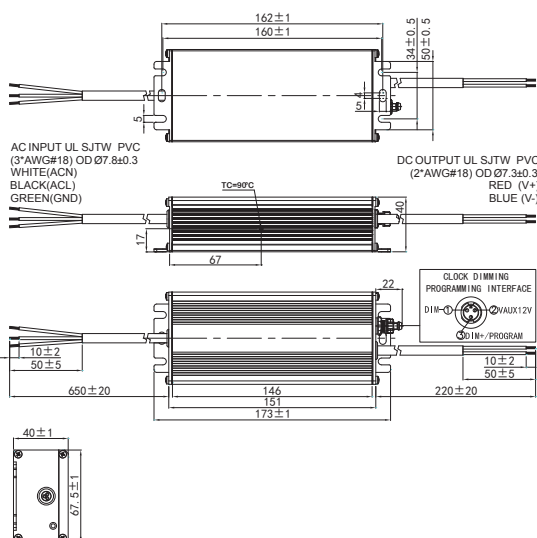
### Constant Current



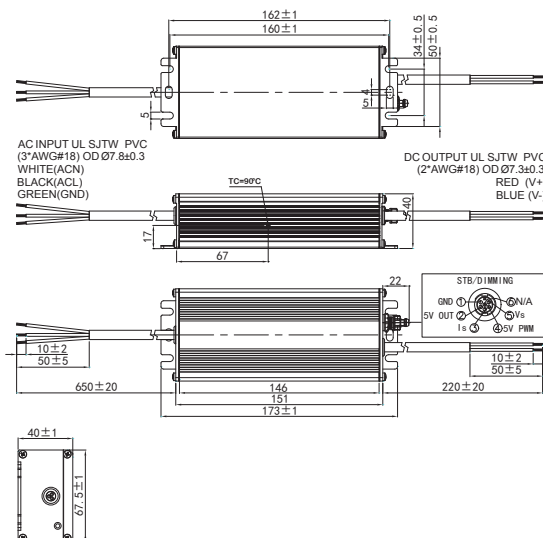
### 0-10V Dimming / Clock Dimming(CLKS/W)



### Clock Dimming(CLKS/C)



### Standby



Numbering System

Quick Selection

LED Driver  
- General Series  
- Outdoor Use  
- H Series

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

LED Driver  
- General Series  
- Outdoor Use  
- A Series

LED Driver  
- General Series  
- Outdoor Use  
- Other Series

LED Driver  
- Intelligent Series  
- 50W Intelligent Series

LED Driver  
- Intelligent Series  
- 40W Intelligent Series

LED Driver  
- Intelligent Series  
- 50W Intelligent Series

LED Driver  
- Intelligent Series  
- 50W Intelligent Series

LED Driver  
- Intelligent Series  
- Other Series

General Power Supplies  
- M Series

SPD

Appendix