

# S1-HL

## RF Dimming High Voltage LED Controller

RF DIM



CE RoHS

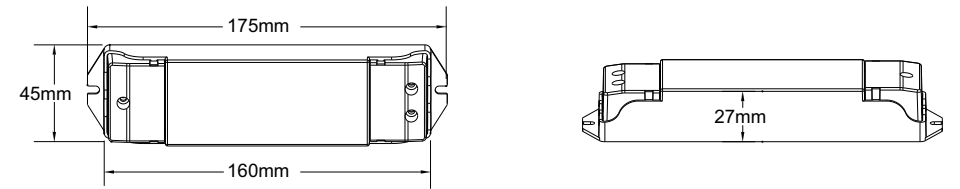
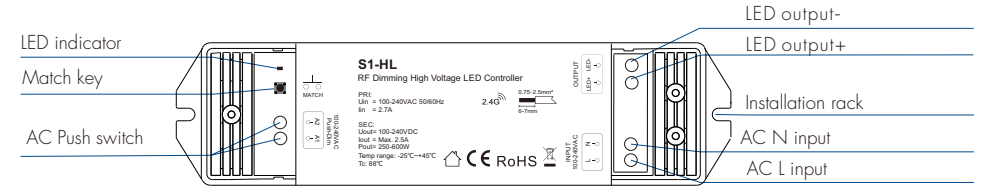
### Features

- RF dimming High voltage LED strip controller, can control maximum about 50 meters of high voltage LED strip, different LED strip may have difference.
- Match with RF 2.4G single zone or multiple zone single color remote control.
- One RF controller accept up to 10 remote control.
- 4096 levels 0-100% dimming smoothly without any flash.
- Light on/off fade time 3s selectable.
- Connect with external push switch to achieve on/off and 0-100% dimming function.

### Technical Parameters

| Input and Output        |                 | Dimming data       |                         | Safety and EMC  |                                       |
|-------------------------|-----------------|--------------------|-------------------------|-----------------|---------------------------------------|
| Input voltage           | 100-240VAC      | Input signal       | RF 2.4GHz + Push        | EMC standard    | EN IEC 55015/<br>EN IEC 61547         |
| Input current           | 2.7A            | Remote distance    | 30m[Barrier-free space] |                 | EN IEC 61000-3-2/<br>EN IEC 61000-3-3 |
| Output voltage          | 100-240VDC      | Dimming gray scale | 4096 (2^12) levels      |                 | ETSI EN 301 489-1/-3                  |
| Output current          | Max. 2.5A       | Dimming range      | 0 - 100%                | Safety standard | EN 61347-1/-2                         |
| Output power            | 250-600W        | PWM Frequency      | 2KHz                    | Radio equipment | ETSI EN 300 440                       |
| Environment             |                 |                    |                         | Certication     | CE RoHS                               |
| Operation temperature   | Ta: -25℃ ~ +45℃ | Package            |                         | Warranty        |                                       |
| Case temperature (Max.) | Tc: +88℃        | Size               | L178 x W50 x H38mm      | Warranty        | 5 years                               |
| IP rating               | IP20            | Gross weight       | 0.146kg                 |                 |                                       |

### Mechanical Structures and Installations

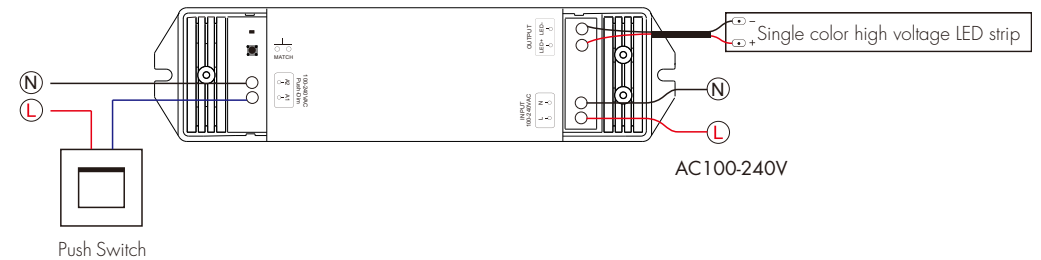


### Wiring Diagram



#### Caution:

This controller apply for high voltage LED strip, please carefully ensure all wire connections and polarities are correct and secure before applying power, otherwise this controller or high voltage LED strip will be damaged.



#### Note:

It is recommended that it be used at 80% of full load in order to cope with emergencies and harsh environments.

### AC Push Dim Function

- **Short press:** Turn on or off light.
- **Long press(1-6s):** Press and hold to stepless dimming. With every other long press, the light level goes to the opposite direction.
- **Dimming memory:** Light returns to the previous dimming level when switched off and on again, even at power failure.

## Match RF Remote Control

User can choose the suitable match/delete ways. Two options are offered for selection:

### Use Match key

Match:

Short press match key,  
immediately press on/off key (single zone remote)  
or zone key (multiple zone remote) on the remote.  
The LED indicator fast flash a few times means match  
is successful.

Delete:

Press and hold match key for 5s,  
The LED indicator fast flash a few times  
means all matched remotes were deleted.

### Use Power Restart

Match:

Switch off the power, then switch on power, repeat again.  
Immediately short press on/off key (single zone remote)  
or zone key (multiple zone remote) 3 times on the remote.  
The light blinks 3 times means match is successful.

Delete:

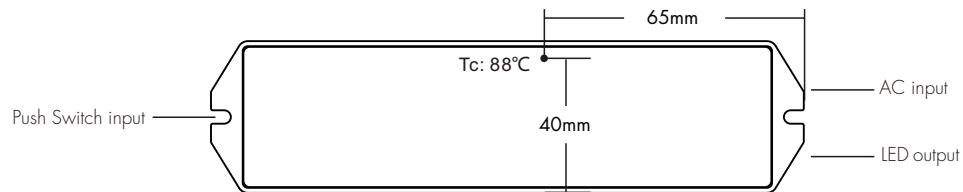
Switch off the power, then switch on power, repeat again.  
Immediately short press on/off key (single zone remote)  
or zone key (multiple zone remote) 5 times on the remote.  
The light blinks 5 times means all matched remotes were deleted.

## Fade in and Fade out Setting

Long press match key 15s, set the fade in and fade out time to 3s, the indicator light of LED controller blinks 3 times.

Long press match key 10s, restore factory default parameter, the indicator light of LED controller blinks 2 times,  
the light on/off time restores to 0.5s.

## Tc Point Location



The Tc point is located at the bottom of the controller