

## 1. TECHNICAL SPECIFICATIONS

WSER50 LED motor is for Cassette Awnings. The motor provides low voltage for LED strip. Please check motor's rating label on the tube for the specific DC output voltage, it can be 12V or 24V. Make sure to connect the DC wires to corresponding correct voltage LED strip.

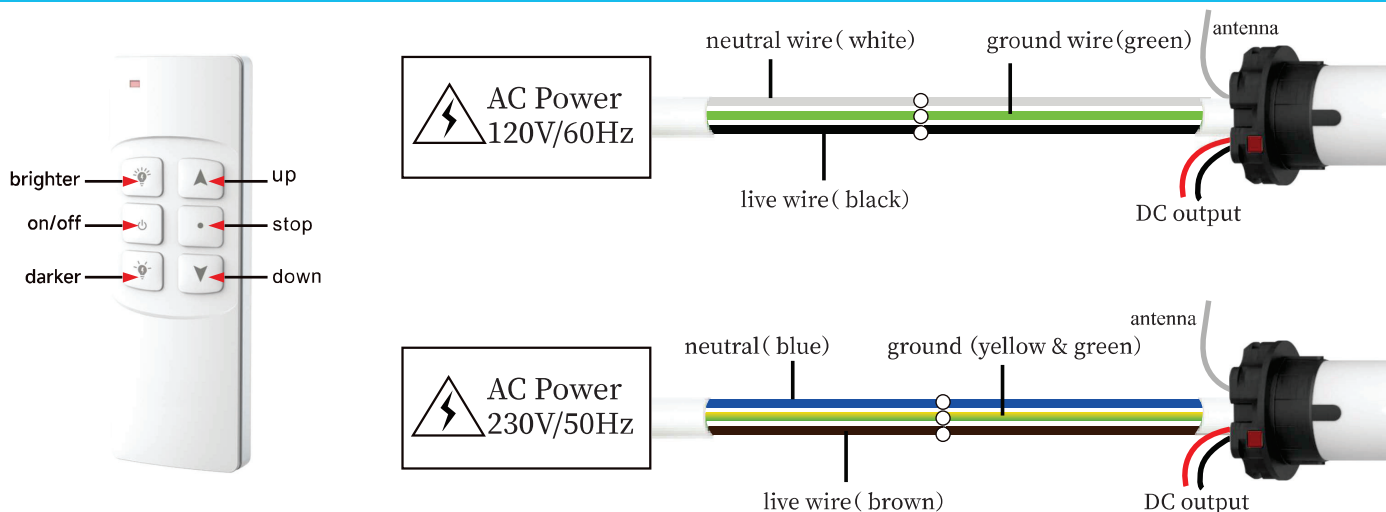
Rated Power: 240V/50Hz or 110V/60Hz, check rating label for specific data.

Protection Index: IP 44

Thermal protection will engage after 4 minutes of continuous running

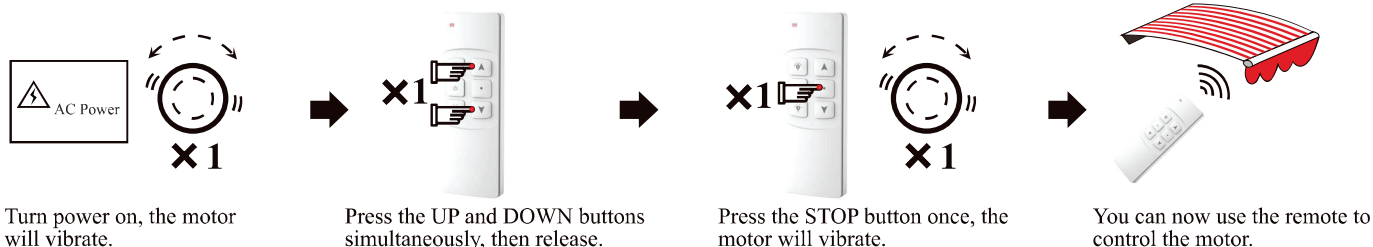
Up to 15 remotes (or channels) may be assigned to each motor

## 2. WIRE CONNECTION



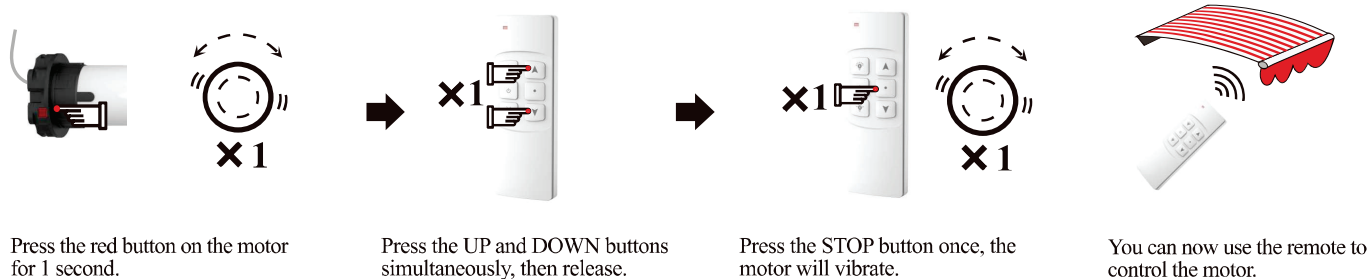
## 3. ASSIGNING REMOTE you have 10 seconds to complete the task

**Method A.** For the first remote assigned to the motor.



Method A can only be used again if you cut and restore power to the motor 3 times. You must turn off the power right after the motor vibrates, and then allow 10 seconds before turn on the power again. Repeat turning off-on for three times, after the third cycle, you may assign the remote.

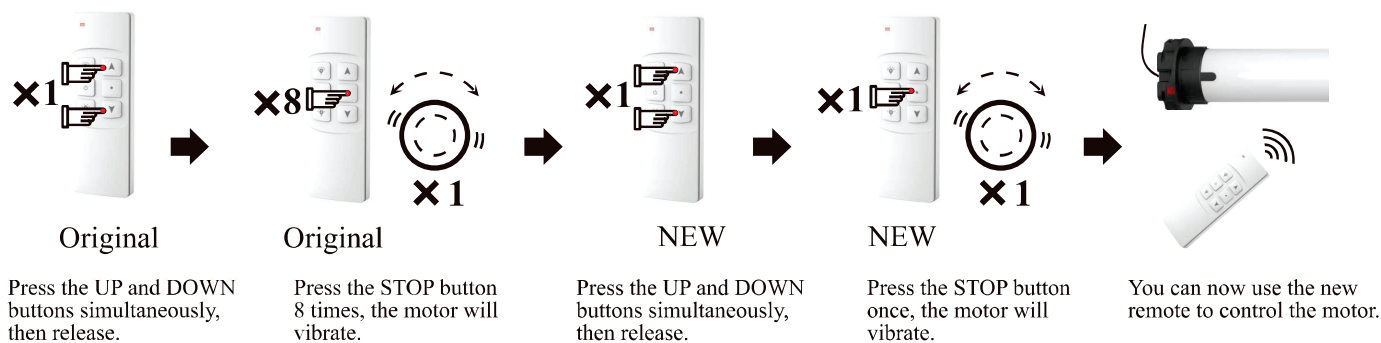
**Method B.** Can be used at any time.



## 4. CONTROL LED STRIP WITH REMOTE

Once the remote is assigned to the motor, the three buttons on the left side can control the LED strip connected to the DC out put from the motor. The middle button is to turn on/off the LED strip. The other two buttons are for dimming. Short press the upper button will make the LED light brighter, the lower button will make the LED light darker.

## 5. ASSIGNING AN EXTRA REMOTE TO MOTOR VIA ORIGINAL REMOTE



**Original**  
Press the UP and DOWN buttons simultaneously, then release.

**Original**  
Press the STOP button 8 times, the motor will vibrate.

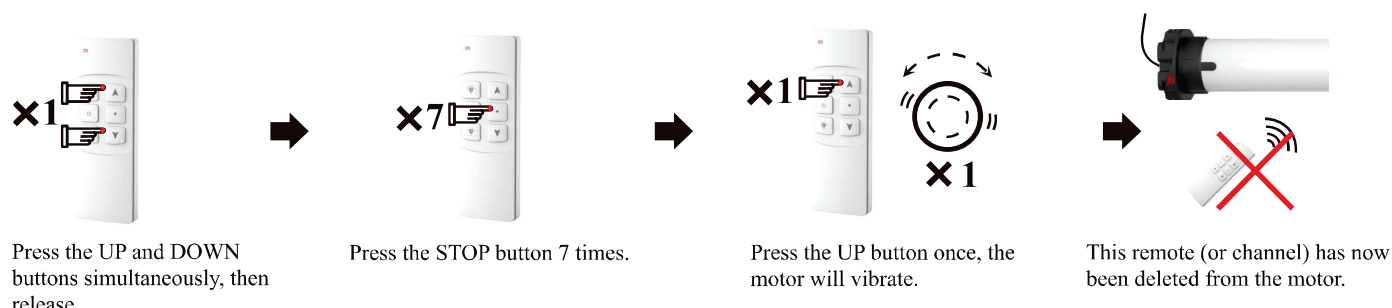
**NEW**  
Press the UP and DOWN buttons simultaneously, then release.

**NEW**  
Press the STOP button once, the motor will vibrate.

You can now use the new remote to control the motor.

## 6. DELETING A REMOTE you have 10 seconds to complete the task

Method A. This will delete the individual remote (or channel) you are currently using.



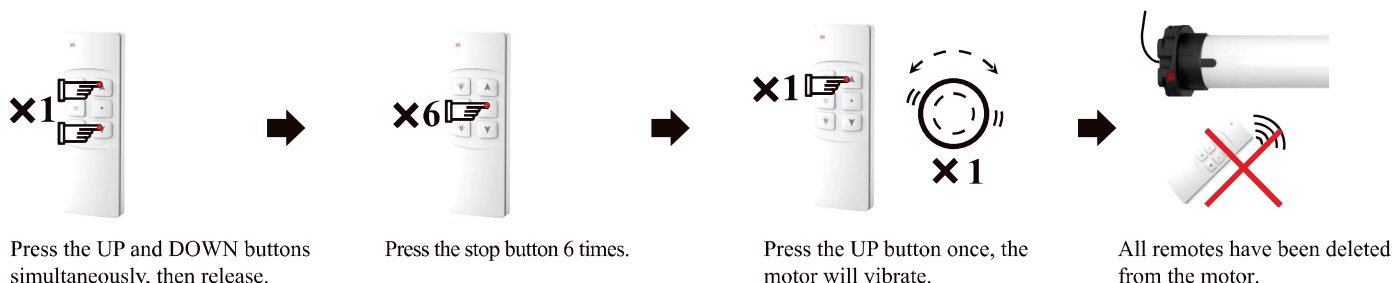
Press the UP and DOWN buttons simultaneously, then release.

Press the STOP button 7 times.

Press the UP button once, the motor will vibrate.

This remote (or channel) has now been deleted from the motor.

Method B. **WARNING:** This will delete ALL remotes assigned to the motor



Press the UP and DOWN buttons simultaneously, then release.

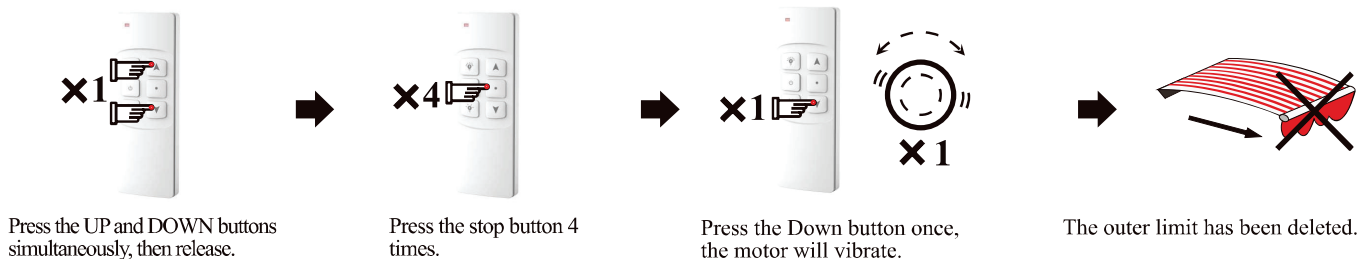
Press the stop button 6 times.

Press the UP button once, the motor will vibrate.

All remotes have been deleted from the motor.

## 7. SETTING THE LIMITS

01. First delete outer limit (just in case one was set during testing) **Note: The inner limit is deleted automatically if the outer limit is deleted, so does third limit.**



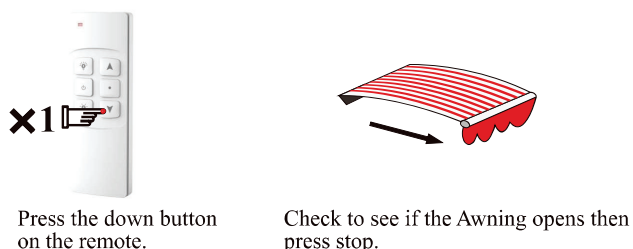
Press the UP and DOWN buttons simultaneously, then release.

Press the stop button 4 times.

Press the Down button once, the motor will vibrate.

The outer limit has been deleted.

02. Confirm the motors direction **-THE DOWN BUTTON *MUST* OPEN THE AWNING.**



Press the down button on the remote.

Check to see if the Awning opens then press stop.

**Note:**  
If the Awning opens, go to step 4 below to set the outer limit.  
If the Awning did not open, go to step 3 below to change direction.

## 7. SETTING THE LIMITS cont.

03. Changing the motor's direction (You have 10 seconds to complete the task).



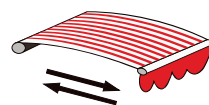
Press the UP and DOWN buttons simultaneously, then release.



Press the STOP button 6 times.

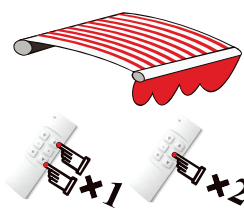


Press the DOWN button once, the motor will vibrate.



The IN and OUT directions of the motor have been reversed. Repeat step 2.

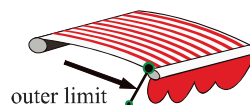
04. Setting the outer limit



Adjust awning to desired position then :  
Press the UP and DOWN buttons simultaneously, then release. Then press STOP twice.



Press the DOWN button once, the motor will vibrate, the outer limit is set.

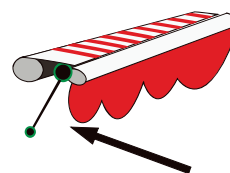


During use, the motor will rebound slightly at the outer limit to flatten the fabric.

05. Setting the inner limit (for folding arm awnings and cassettes only)

After the outer limit is set, when closing the awning for the first time allow it to stop on it's own based on tension. The motor will then apply only 25% of the force when it closes in the future, although this is adjustable in step 10 .

**To manually set the inner limit, see last page.**



06. Setting the third limit (Mid way position, between inner and outer limits)



Stop the awning in the desired position then Press the STOP button 4 times.



The motor will vibrate and the third limit is set.



Hold down for 2 seconds

Holding down the stop button for 2 seconds will send the motor to the third limit position.

## 8. CHANGING THE THIRD LIMIT



Stop the awning in the new desired position then Press the STOP button 4 times.



The motor will vibrate and the new third limit is set.



Hold down for 2 seconds

Holding down the stop button for 2 seconds will send the motor to the new third limit position.

**NOTE:** The third limit will be deleted automatically if either the top or bottom limits are deleted.

## 9. WIND & LIGHT SENSOR CONTROL

### 1). Activate wind and light sensor control



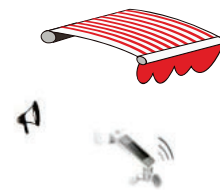
Press the UP and DOWN buttons simultaneously, then release.



Press the STOP button once.



Press the UP button once, the motor will vibrate.



The wind and light sensor is now operational.

### 2). Deactivate wind and light sensor



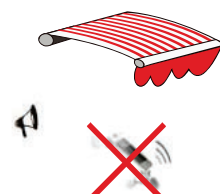
Press the UP and DOWN buttons simultaneously, then release.



Press the STOP button once.



Press the Down button once, the motor will vibrate.



The wind and light sensor is now inactive.

## 10. ADJUSTING TORQUE LEVEL USED TO STOP AT THE INNER LIMIT



Press the UP and DOWN buttons simultaneously, then release.



Press the STOP button 4 times.



Press the Up button 1, 2, 3, or 4 times as required, see below.



Press the Stop button once to finish the sequence.

The number of times the UP button (N) is pressed will determine the level of torque applied before the motor will stop at the inner limit. Press once for 25%, twice for 50%, three times for 75% or four times for 100% torque required to stop. (Default is 25%)

### HANDY TIPS

1. Always roll the Awning out first if setting the inner limit manually. Failure to do so may result in a change of limit position due to a change in fabric tension.
2. When pressing up and down simultaneously during setup, be as precise as possible. Ideally it should sound like one button click when both are pressed.
3. If you catch yourself making an error during a setup process, stop and allow 10 seconds for the motor to time out, then try again.
4. Do not hold any buttons down during setup process unless specifically told to do so. A half second press should be plenty and allow 1 second between presses.
5. If you are using a multi-channel remote, make certain that it is on the correct channel before you assign it to a motor. This is a common mistake.

### TURNING THE OUTER LIMIT REBOUND ON / OFF

The outer limit rebound is a function that tightens the fabric once the awning has reached it's outer limit. It does this by doing a small reverse rotation after the outer limit is reached. It only functions on below two conditions:

1. You have to turn ON rebound function by following below steps because it is turned OFF as default.
2. Only if the outer limit is set firstly (04. Setting the outer limit on page 3) and inner limit is set automatically based on tension (05. Setting the inner limit on page 3).

To turn the rebound function ON: (Press Up and Down simultaneously) + (press STOP 3 times)+ (press UP once) To turn the rebound function OFF: (Press Up and Down simultaneously) + (press STOP 3 times)+ (press DOWN once) Note: If the inner limit is set manually, the rebound function will not work.

### MANUALLY SETTING THE INNER LIMIT

This folding arm awning motor is designed to set it's own inner limit based on torque sensing. If you need to set an inner limit manually, it can be done using the following procedure only.

Delete outer limit first (inner limit cannot be set manually if outer limit is already set) (Press Up and Down simultaneously) + (press STOP 4 times)+ (press DOWN once)

Adjust awning to desired inner limit position and set inner limit (Press Up and Down simultaneously) + (press STOP twice)+ (press UP once)

Now adjust awning to desired outer limit position and set the limit (Press Up and Down simultaneously) + (press STOP twice)+ (press DOWN once)

Your limits are now set. Be aware that if inner limit is set manually, the motor will not rebound (self tension) at the outer limit. Deleting the outer limit will also delete the inner limit automatically. Deleting the outer limit is the only way to delete the inner limit. A manual inner limit may change position as fabric stretches over time.