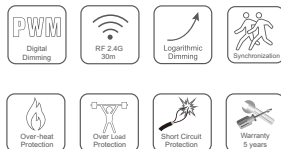# WiFi 1-4 Channel Constant Voltage LED Driver
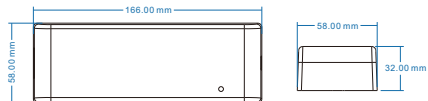
**Model No.: PH-75-12(WT), PH-75-12-2(WT), PH-75-12-3(WT), PH-75-12-4(WT)
PH-75-24(WT), PH-75-24-2(WT), PH-75-24-3(WT), PH-75-24-4(WT)**

| PWM Digital Dimming | RF 2.4G 30m | Logarithmic Dimming | Synchronization |
| Over-heat Protection | Over Load Protection | Short Circuit Protection | Warranty 5 years |

## Features

- Dimmable LED driver with WiFi + RF control, apply to single color, dual color or RGB/RGBW LED constant voltage strips
- Tuya APP cloud control, support on/off, RGB color, color temperature and brightness adjust, delay turn on/off light, timer run, scene and music play function.
- Voice control, support amazon ECHO and TmallGenie smart speaker.
- Match with RF 2.4G single color, dual color and RGB/RGBW remote. One RF LED driver accepts up to 10 remote controls
- Each WiFi dimmable LED driver can also work as WiFi-RF converter, then use Tuya APP to control one or more RF LED dimming driver synchronously.
- Universal AC input / Full range
- 1/2/3/4 channel constant voltage output, Max. total output power 75W
- Built-in active PFC function: 0.95 Typ
- When using with RGB/RGBW light, built in 10 dynamic mode, include jump or gradual change style
- Over-heat / Over-load / Short circuit protection, recover automatically
- Full protective plastic case
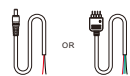- Suitable for indoor LED lighting application
- 5 Year, 50,000hr warranty

## Product Size

166.00 mm    58.00 mm    58.00 mm    32.00 mm

## Accessories
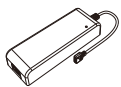
LED driver 1 pcs    LED strip wiring cable 1 pcs    OR    Power cord 1 pcs    User Manual 1 pcs

## Technical Parameters

| Model | | PH-75-12(WT) | PH-75-12-2(WT) | PH-75-12-3(WT) | PH-75-12-4(WT) |
|---|---|---|---|---|---|
| **Output** | Type | Dimming | Color temperarure | RGB | RGBW |
| | Output Voltage | 12VDC ± 0.5VDC | | | |
| | Output Current | 6.25A | 3.125A x 2CH | 2.08A x 3CH | 1.56A x 4CH |
| | Output Power | Max. 75W | | | |
| | Dimming Range | 0～100% | | | |
| | PWM Frequency | 3900Hz | | | |
| | Ripple & Noise | ≤220mV | | | |
| | Overload Power Limitation | ≥120-150% | | | |
| **Input** | Input Voltage Range | 100VAC～240VAC | | | |
| | Frequency Range | 50/60Hz | | | |
| | Alternating Current | 0.86A/115VAC, 0.38A/230VAC | | | |
| | Power Factor | PF>0.99/110VAC  PF>0.95/230VAC, at full load | | | |
| | THD | 110VAC@THD≤10%  230VAC@THD≤16% | | | |
| | Efficiency(typ.) | 88% | | | |
| | Inrush Current | Cold start 35A at 230VAC | | | |
| | Anti Surge | L-N: 1KV | | | |
| | Leakage Current | ＜0.5mA | | | |
| **Protection** | Over Load Power | Shut down the output when current load ≥ 120%～150%, auto recovers. | | | |
| | Over Voltage | Shut down the output when non-load ≥ 13V, auto recovers. | | | |
| | Short Circuit | Shut down automatically if short circuit occurs, auto recovers. | | | |
| | Over Temperature | Intelligently adjust or turn off the output current if the PCB temp > 100℃, auto recovers. | | | |
| **Environment** | Woking Temperature | -30℃～50℃ | | | |
| | T-case Max | 80℃ | | | |
| | Working Humidity | 20%～90%RH, non-condensing | | | |
| | Storage Temperature/Humidity | -40℃～80℃, 10%～95%RH | | | |
| | Temperature Coefficient | ±0.03%/℃ (0-50%) | | | |
| | Vibration Resistance | 10-500Hz, 2G, 6min/cycle, X,Y,Z axes/2min | | | |
| | IP Rating | IP20 | | | |
| **Safety&EMC** | Security Specifications | IEC/EN61347-1, IEC/EN61347-2-13 | | | |
| | Withstand Voltage | I/P-O/P: 3750VAC | | | |
| | Insulation Resistance | I/P-O/P: 100MΩ/500VDC/25℃/70%RH | | | |
| | EMC Emission | EN55015, EN61000-3-2 Class C, IEC61000-3-3 | | | |
| | EMC Immunity | EN61000-4-2.3.4.5.6.8.11, EN61547 | | | |
| | Certications | CE, EMC | | | |

| Model | | PH-75-24(WT) | PH-75-24-2(WT) | PH-75-24-3(WT) | PH-75-24-4(WT) |
|---|---|---|---|---|---|
| **Output** | Type | Dimming | Color temperarure | RGB | RGBW |
| | Output Voltage | 24VDC ± 0.5VDC | | | |
| | Output Current | 3.125A | 1.56A x 2CH | 1.04A x 3CH | 0.78A x 4CH |
| | Output Power | Max. 75W | | | |
| | Dimming Range | 0～100% | | | |
| | PWM Frequency | 3900Hz | | | |
| | Ripple & Noise | ≤330mV | | | |
| | Overload Power Limitation | ≥120-150% | | | |
| **Input** | Input Voltage Range | 100VAC～240VAC | | | |
| | Frequency Range | 50/60Hz | | | |
| | Alternating Current | 0.84A/115VAC, 0.37A/230VAC | | | |
| | Power Factor | PF>0.99/110VAC  PF>0.95/230VAC, at full load | | | |
| | THD | 110VAC@THD≤10%  230VAC@THD≤16% | | | |
| | Efficiency(typ.) | 90% | | | |
| | Inrush Current | Cold start 38A at 230VAC | | | |
| | Anti Surge | L-N: 1KV | | | |
| | Leakage Current | ＜0.5mA | | | |
| **Protection** | Over Load Power | Shut down the output when current load ≥ 120%～150%, auto recovers. | | | |
| | Over Voltage | Shut down the output when non-load ≥ 26V, auto recovers. | | | |
| | Short Circuit | Shut down automatically if short circuit occurs, auto recovers. | | | |
| | Over Temperature | Intelligently adjust or turn off the output current if the PCB temp > 100℃, auto recovers. | | | |
| **Environment** | Woking Temperature | -30℃～50℃ | | | |
| | T-case Max | 80℃ | | | |
| | Working Humidity | 20%～90%RH, non-condensing | | | |
| | Storage Temperature/Humidity | -40℃～80℃, 10%～95%RH | | | |
| | Temperature Coefficient | ±0.03%/℃ (0-50%) | | | |
| | Vibration Resistance | 10-500Hz, 2G, 6min/cycle, X,Y,Z axes/2min | | | |
| | IP Rating | IP20 | | | |
| **Safety&EMC** | Security Specifications | IEC/EN61347-1, IEC/EN61347-2-13 | | | |
| | Withstand Voltage | I/P-O/P: 3750VAC | | | |
| | Insulation Resistance | I/P-O/P: 100MΩ/500VDC/25℃/70%RH | | | |
| | EMC Emission | EN55015, EN61000-3-2 Class C, IEC61000-3-3 | | | |
| | EMC Immunity | EN61000-4-2.3.4.5.6.8.11, EN61547 | | | |
| | Certications | CE, EMC | | | |

## Wiring Diagram
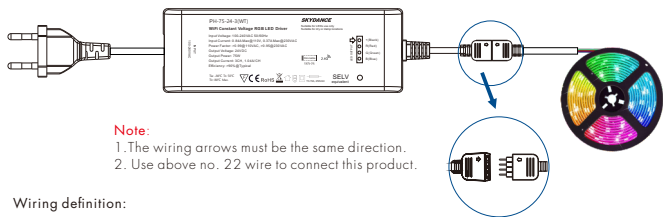


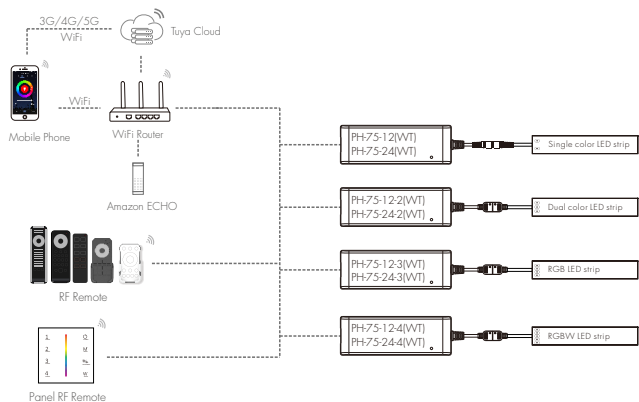**Note:**
1. The wiring arrows must be the same direction.
2. Use above no. 22 wire to connect this product.

### Wiring definition:

| | | | |
|---|---|---|---|
| PH-75-12(WT)<br>PH-75-24(WT) | | | +(Red)<br>-(Black) |
| PH-75-12-2(WT)<br>PH-75-24-2(WT) | | | +(Black)<br>WW(Green)<br>CW(Blue) |
| PH-75-12-3(WT)<br>PH-75-24-3(WT) | | | +(Black)<br>R(Red)<br>G(Green)<br>B(Blue) |
| PH-75-12-4(WT)<br>PH-75-24-4(WT) | | | +(Black)<br>R(Red)<br>G(Green)<br>B(Blue)<br>W(White) |

## System wiring

## Tuya APP network connection

Switch off the power of the WiFi dimming driver(the RUN LED indicator must be off),
then switch on power again, continuous five times fast operation.
The light blinks 5 times, means clear previous network connection, enter Smart config mode,
Then the RUN LED indicator fast flash a few times.

If Tuya APP network connection succeed, the RUN LED indicator will stop flash,
and in Tuya APP, you can find SKYDANCE-RGBW device (or other DIM, CCT or RGB ).
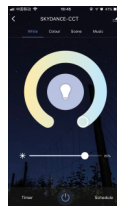
## Tuya APP interface
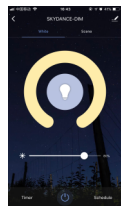


**White interface**

For DIM type:
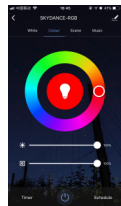Touch brightness slide
to adjust brightness.

For RGB type:
Touch brightness slide,
get RGB mixed white firstly,
then to adjust white brightness.

For RGBW type:
Touch brightness slide,
adjust white channel brightness.



**Color temperature interface**

For CCT type:
Touch color wheel to adjust color temperature.
Touch brightness slide to adjust brightness.



**Colour interface**

For RGB or RGBW type:
Touch color wheel
to adjust static RGB color.

Touch brightness slide
to adjust color brightness.

Touch saturation slide to adjust color
saturation, namely gradient from the
current color to white (RGB mixed).



**Scene interface**

The 1-4 scene is static color for all light type.
the inner color of these scene can be editable.

The 5-8 scene is dynamic mode for RGB or RGBW type,
such as green fade in and fade out, RGB jump,
6 color jump, 6 color smooth.
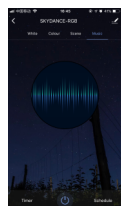


**Music, Timer, Schedule**

The music play can use smart phone
music player or micro-phone as music signal input.

The Timer key can turn on or turn off light in the next 24 hours.

The Schedule key can add multiple timers to turn on or turn off light
according to different time periods.

## The WiFi Dimming Driver Match Remote Control(Optional)

Use power restart to match the LED driver and RF remote,
The LED driver of different light types matches the RF remote of correponding light type.

Match：
Switch off the power, then switch on power 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 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.

## The WiFi Dimming Driver work as WiFi-RF converter to match other RF dimming driver

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

**Use the RF dimming dirver's Match key**

Match：
Short press match key of the RF dimming driver,
immediately press on/off key on the Tuya APP.
The LED indicator fast flash a few times
means match is successful.

Delete：
Press and hold match key of the RF dimming driver for 5s,
The LED indicator fast flash a few times
means all matched remotes were deleted.

**Use Power Restart**

Match：
Switch off the power of the RF dimming driver
then switch on power again,
immediately short press on/off key 3 times on the Tuya APP.
The light blinks 3 times means match is successful.

Delete：
Switch off the power of the RF dimming driver,
then switch on power again,
immediately short press on/off key 5 times on the Tuya APP.
The light blinks 5 times means all matched RF remotes were deleted.

## RGB/RGBW Dynamic mode list

| No. | Name | No. | Name |
|---|---|---|---|
| 1 | RGB jump | 6 | RGB fade in and out |
| 2 | RGB smooth | 7 | Red fade in and out |
| 3 | 6 color jump | 8 | Green fade in and out |
| 4 | 6 color smooth | 9 | Blue fade in and out |
| 5 | Yellow cyan purple smooth | 10 | White fade in and out |