50W RF+Bluetooth Dimmable Driver(Constant current)

CE ✔RoHS COMPLIANT SELV (symbols)

Important: *Read All Instructions Prior to Installation*

Function introduction

50W RF+Bluetooth LED Driver

NC NC

AC INPUT N L

LED OUTPUT + −

Prog.

— LED output

— Dips to set the operation current
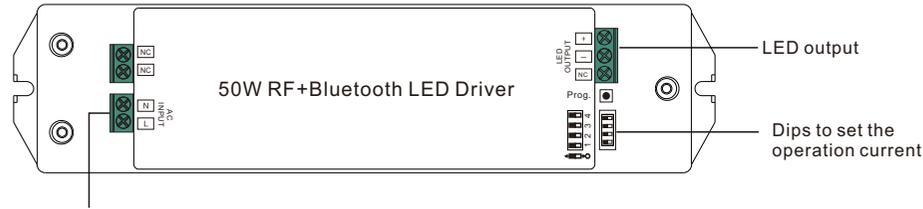
AC 200-240V input

Product Data

Output	LED Channel	1							
	Selectable Current	250mA	300mA	350mA	400mA	450mA	500mA	550mA	600mA
	DC Voltage Range	8-52V	8-52V	8-52V	8-52V	8-52V	8-52V	8-52V	8-52V
	Selectable Current	650mA	700mA	750mA	800mA	850mA	900mA	950mA	1000mA
	DC Voltage Range	8-52V	8-52V	8-52V	8-52V	8-52V	8-52V	8-52V	8-50V
	Current Tolerance	±5%							
	Rated Power	Max. 50W							
Input	Voltage Range	200-240V AC							
	Frequency Range	50/60Hz							
	Power Factor (Typ.)	> 0.97							
	Total Harmonic Distortion	THD ≤ 8% (@ full load / 230VAC)							
	Efficiency (Typ.)	87% @ 230VAC full load							
	AC Current (Typ.)	0.27A @ 230VAC							
	Inrush Current (Typ.)	COLD START Max. 2A at 230VAC							
	Leakage Current	< 0.5mA /230VAC							
Control	Dimming Interface	RF+Bluetooth®							
	Dimming Range	0.1%-100%							
	Dimming Method	Amplitude dimming (PWM dimming under 1%)							
	Dimming Curve	Logarithmic/ Linear							

Protection	Short Circuit	Yes, recovers automatically after fault condition is removed
	Over Voltage	Yes, recovers automatically after fault condition is removed
	Over Temperature	Yes, recovers automatically after fault condition is removed
Environment	Working Temp.	-20℃ ~ +45℃
	Max. Case Temp.	75℃ (Ta="45℃")
	Working Humidity	10% ~ 95% RH non-condensing
	Storage Temp. & Humidity	-40℃ ~ +80℃, 10% ~ 95% RH
Safety & EMC	Safety Standards	ENEC EN61347-1, EN61347-2-13 approved
	Withstand Voltage	I/P-O/P: 3.75KVAC
	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25℃ / 70% RH
	EMC Emission	EN55015, EN61000-3-2, EN61000-3-3
	EMC Immunity	EN61547, EN61000-4-2,3,4,5,6,8,11
Others	MTBF	191300H, MIL-HDBK-217F @ 230VAC at full load and 25℃ ambient temperature
	Dimension	210*50*32mm (L*W*H)

Dips to set the operation current
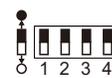
	1 2 3 4		1 2 3 4
250mA	○○○○	650mA	●○○○
300mA	○○○●	700mA	●○○●
350mA	○○●○	750mA	●○●○
400mA	○○●●	800mA	●○●●
450mA	○●○○	850mA	●●○○
500mA	○●○●	900mA	●●○●
550mA	○●●○	950mA	●●●○
600mA	○●●●	1000mA	●●●●

- Dimmable LED driver with RF+Bluetooth control, dimming range 0.1%-100%
- Max. output power 50W total
- 1 channel constant current output
- Output current 250-1000mA adjustable by dip switches
- Class 2 power supply, full isolated plastic case
- Built-in active PFC function
- High power factor and efficiency
- Controlled through both smart App and remote controls, no gateway required
- Up to 30m transmission distance between every two neighbor devices
- Encrypted two-way communication, quick status feedback, safe & reliable data transmission
- Compatible with universal RF+Bluetooth remotes, each LED driver can pair to max. 8 remotes
- Enables to control ON/OFF, light intensity of LED lights
- IP20 rating, suitable for indoor LED lighting applications
- 5 years warranty

Safety & Warnings

- DO NOT install with power applied to device.
- DO NOT set operation current with power applied to the device.
- DO NOT expose the device to moisture.

Wiring Diagram

L N

50W RF+Bluetooth LED Driver

Prop.

Tunable White LED light
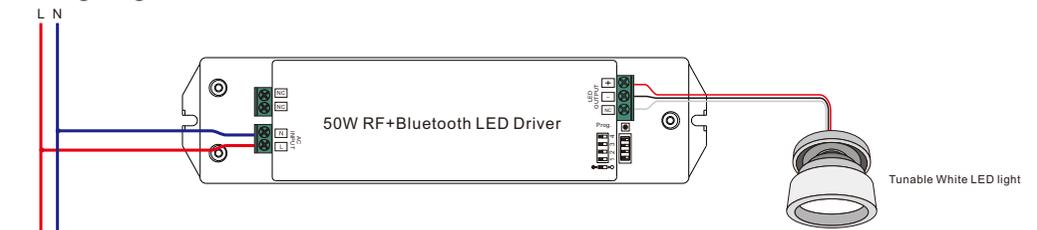
Operation

Pair/delete the pairing with RF+Bluetooth remote

1. Do wiring according to connection diagram.
2. Pair LED driver with RF+Bluetooth remote: please refer to the instruction of the remote that you would like to pair with.
3. Delete the pairing:
   (1) Wire up the LED driver correctly, power on.
   (2) Press and hold down the **" Prog."** button on the driver for over 3 seconds (or reset power of the device 8 times continuously if the button is not accessible to factory reset the device) until the connected light flashes, which means well deleted.

Note: factory resetting will restore all configured parameters of the device on the APP to factory default setting.

Pair with smart APP

1. Do wiring according to connection diagram.

2. Download H2A APP from IOS APP Store or Android Google Play to your smart phone or tablet by searching "H2A". (As shown in **Figure 1**)

3. Enable Bluetooth on your smart phone or tablet. (As shown in **Figure 2**)
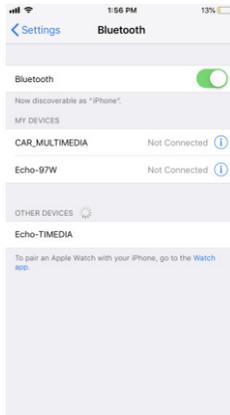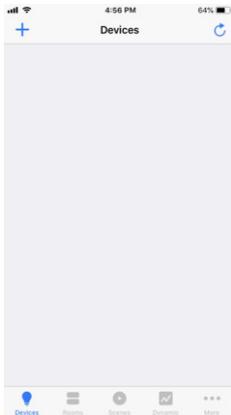
Figure 1	Figure 2	Figure 3

4. Run H2A APP, tap add button " + " on the APP to add device, then choose "Discover devices" to discover device, then **short press the "Prog." button on the driver twice** (or **reset power of the driver twice continuously**) to set the device into pairing to APP mode. (As shown in **Figure 3** & **Figure 4** & **Figure 5**)
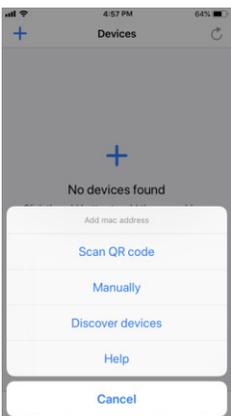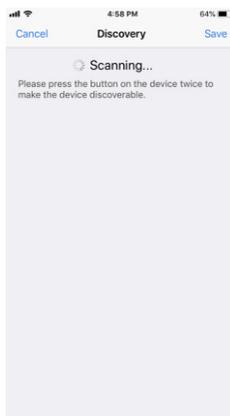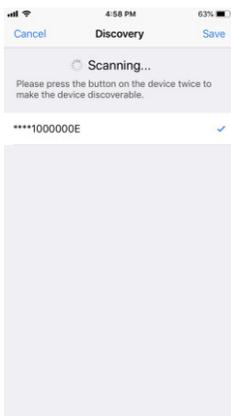
Figure 4	Figure 5	Figure 6

Note: multiple drivers can be discovered by the APP at the same time.

5. Once the device/devices are discovered, tick the device/devices and tap "Save" button, the device/devices will be added successfully. (as shown in **Figure 6**)

Configure Light Type Using smart APP

1. Press and hold the device icon to enter into control interface, then tap button " 🖉 " at upper right corner to enter into edit page of this device (As shown in **Figure 7** & **Figure 8**).

2. Then tap "**Light Type**" to enter light type configuration page, for this driver, it can be configured as 2 light types: **DIM, ON/OFF**. Once select a Light Type, tap " ✓ " at upper right corner to confirm, the connected light will flash to indicate successful configuration. (As shown in **Figure 8**)
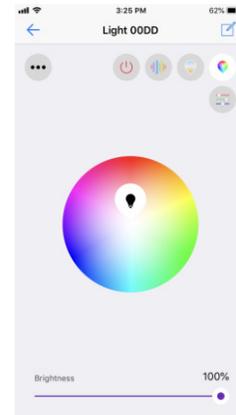
Figure 7	Figure 8

Product Dimension