

## PAR56 LED

# Swimming Pool Lamp User Manual



Plastic



Aluminum



316 (V4A)  
Stainless Steel

IP68 CE FCC RoHS ERP R&TTE

### [ CAUTION ]

- ⚠ PAR56 POOL LAMP NEED TO BE USED UNDER WATER.
- ⚠ PAR56 POOL LAMP REQUIRES TOROIDAL TRANSFORMER, ELECTRONIC TRANSFORMER IS NOT APPLICABLE.

**Main parameters:****[ CAUTION ]**

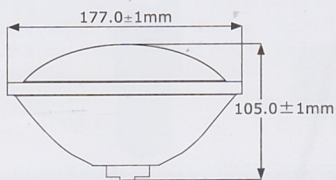
- ▲ PAR56 POOL LAMP NEED TO BE USED UNDER WATER.**  
**▲ PAR56 POOL LAMP REQUIRES TOROIDAL TRANSFORMER, ELECTRONIC TRANSFORMER IS NOT APPLICABLE.**

Specification	Parameter			
Model No.	P56B-105S5	P56B-252D5	P56B-315D5	P56B-12X1W
Input Voltage	AC/DC 12V	AC/DC 12V	AC/DC 12V	AC/DC 12V
Input Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Power	18±1W(white) 17±1W(RGB)	15±1W(white) 14±1W(RGB)	18±1W(white) 17±1W(RGB)	13±1W(white)
Working temperature	-10-60℃	-10-60℃	-10-60℃	-10-60℃

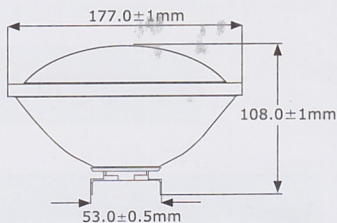
Specification	Parameter			
Model No.	P56B-20X1W SMD5730	P56B-35X1W SMD5730	P56B-20X1W 20W COB	P56B-35X1W 35W COB
Input Voltage	AC/DC 12V	AC/DC 12V	AC/DC 12V	AC/DC 12V
Input Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Power	21±1W	35±1.5W	21±1W	35±1.5W
Working temperature	-10-60℃	-10-60℃	-10-60℃	-10-60℃

Specification	Parameter		
Model No.	P56B-18X1W	P56B-12X3W	P56B-18X3W
Input Voltage	AC/DC 12V	AC 12V	AC 12V
Input Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Power	19±1W(white) 18±1W(RGB)	21±1W(RGB)	25±1.5 W(RGB)
Working temperature	-10-60℃	-10-60℃	-10-60℃

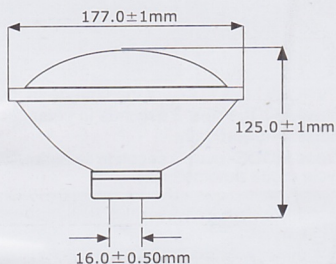
**(1) Screw Terminal dimension**



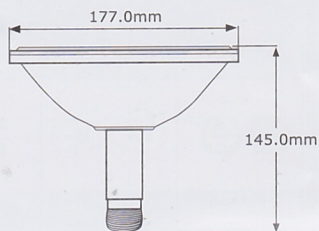
**(2) G53 base dimension**



**(3) GX16D base dimension**



**(4) E27 base dimension**



**Connection Diagram (1): RGB Remote control (with RGB controller)**

Simply connect live and neutral wires onto any one of screw terminals on base of the lamp.

**Step 1:** assemble lamp into housing/fixture/niche

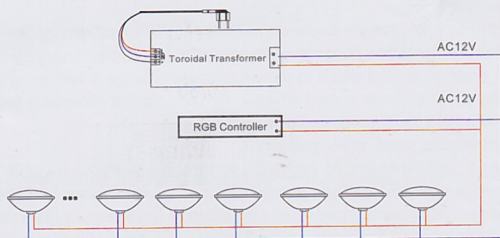
**Step 2:** connect RGB controller to power line as below diagram

**Step 3:** connect lamps to power line as below diagram

**Step 1**

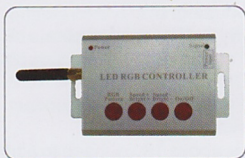


**Step 2/3**





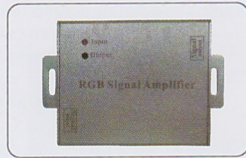
## RGB Controller



## Remote



## Amplifier



Turn off the RGB controller before switch off power.

## (A) Remote controller Instruction

Button no.	Function	Button no.	Function
1	On/off	7	Blue
2	Reset/ (RGB=white)	8	R+G/G+B/R+B
3	speed/brightness+	9	Dynamic change: (R-G) / (G-B) / (R-B)
4	speed/brightness -	10	Dynamic change (R-G-B) / Colorful change
5	Red	11	Fading:R-G-B
6	Green	12	Colorful fading

## (B) RGB Controller Instruction

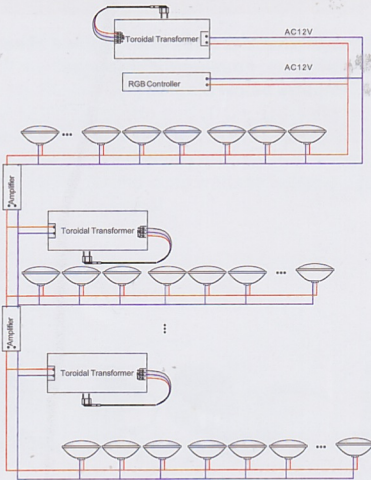
Button Function	Button Function
On/off: switch on/off	Speed/Brightness+: increase speed or brightness
Speed/Brightness-: decrease speed or brightness	RGB Pattern: change RGB pattern

**Remark:** RGB signal is strong enough within 100 meters wire and 1 RGB controller could connect 20 pcs lamps, in case above 20 pcs lamps, use Amplifier to enhance the signal, 1 Amplifier could connect 10 pcs lamps, make sure the power wire is big enough to carry enough voltage(12V AC) in order to avoid voltage drop, see connection diagram as below.

➤➤ Step 1



➤➤ Step 2/3



**Connection Diagram (2): WiFi control**

**Step 1: Assemble lamp to plastic housing or stainless steel housing.**

Connect 4 wires cable of housing respectively to V+, B, G, R screw terminals of lamp, then assemble lamp into housing.

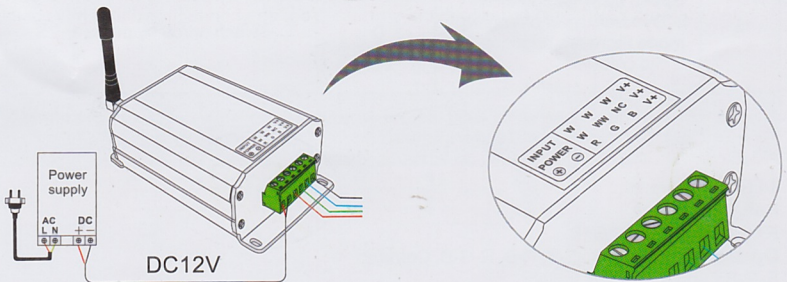
**Step 2:** Connect Power supply(12V DC) to Input Power(DC+, DC-) of LED WiFi controller, then (V+, B, G, R) port of LED WiFi controller connect to 4 wires(V+, B,G, R) of lamp(with housing) as diagram below.

**Remark:**WiFi RGB controller power is 100W, if total lamp wattage is above 100W, need to add Amplifier(150W) to enhance RGB signal.

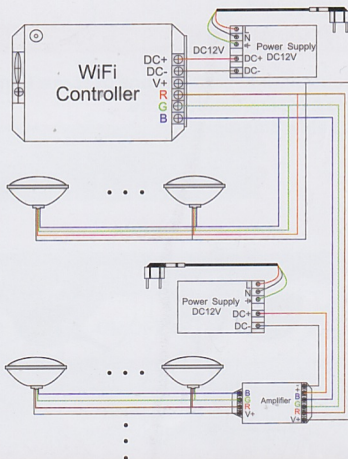
➤➤ Step 1



➤➤ WiFi CONTROLLER







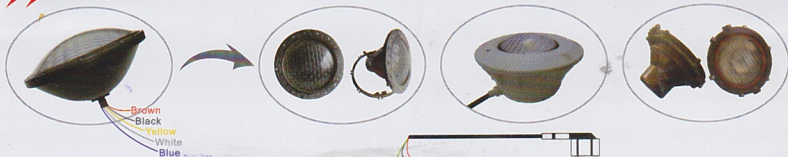
**Connection Diagram (3): DMX512 control.**

**Step 1:** assemble lamp into housing/fixture/niche

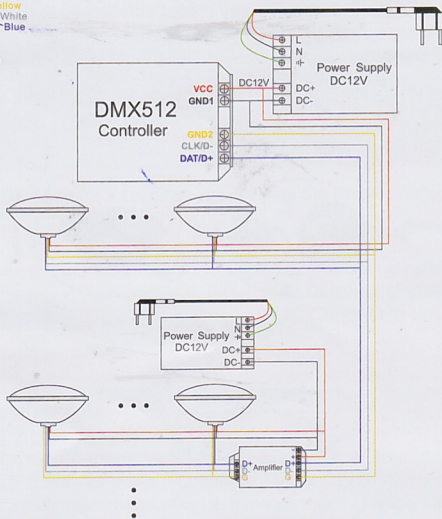
**Step 2:** connect DMX controller to power line as below diagram

**Step 3:** connect lamps to power line and DMX controller as below diagram

**Step 1**



**Step 2/3**



**Remark:**

DMX controller VCC connect to Power supply DC+, GND1 connect to Power supply DC-

5 Wires: **Brown** wire connect to DMX controller "VCC"

**Black** wire connect to DMX controller "GND1"

**Yellow** wire connect to DMX controller "GND2"

**White** wire connect to DMX controller "CLK/D-"

**Blue** wire connect to DMX controller "DAT/D+"

1 DMX512 controller could connect many lamps, in case signal is not strong enough after connect too many lamps, use Amplifier to enhance the signal.

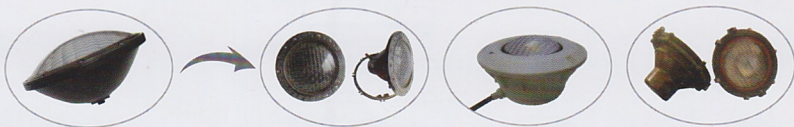
### Connection Diagram (4): Single color-white, red, green, blue

Simply connect live and neutral wires onto any one of screw terminals on base of the lamp.

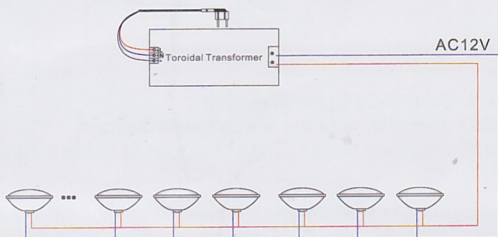
**Step 1:** assemble lamp into housing/fixture/niche

**Step 2:** connect lamps as below diagram

#### Step 1



#### Step 2



### Connection Diagram (5): RGB Automatic control-automatic RGB change

Simply connect live and neutral wires onto any one of screw terminals on base of the lamp.

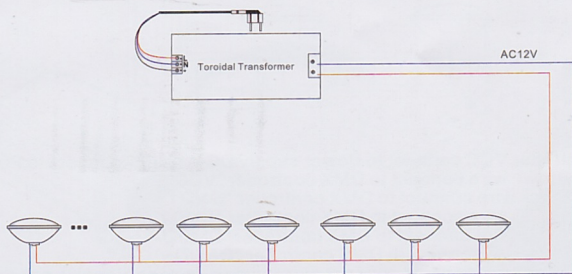
**Step 1:** assemble lamp into housing/fixture/niche

**Step 2:** connect lamps as below diagram

#### Step 1



#### Step 2

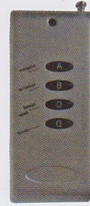


**Connection Diagram (6): RF remote & switch control**

Simply connect live and neutral wires onto any one of screw terminals on base of the lamp.

**Step 1:** assemble lamp into housing/fixture/niche

**Step 2:** connect lamps as below diagram

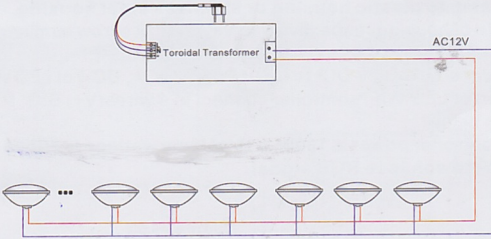


P56-remote

**Step 1**



**Step 2**



**Instructions of The Remote Control Button**

Key	instructions	Key	instructions
A	Mode change (14 programs)	C	Slow down in "fading effect" & "Dynamic color changing" mode -Reset the lamp by press 5S+ decrease brightness in solid color
B	Speed up in "fading effect" & "Dynamic color changing" mode, increase brightness in solid color	D	-Switch on/off by press 1~2S

Note: Remote effective distance is 50 meters, to control lamps in distance of more than 50 meters, use switch control instead of remote control. Change mode by switch on/off.

- 14 RGB Programs;
- Red, Green, Blue
- R+G, G+B, R+B, R+G+B
- Dynamic change: R-G, G-B, R-B, R-G-B, Colorful
- R-G-B Fading, Colorful fading



## Connection Diagram (7): external controller control

**Step 1:** Assemble lamp to plastic housing or stainless steel housing.

Connect 4 wires cable of housing respectively to V+, B, G, R screw terminals of lamp, then assemble lamp into housing.

**Step 2:** Connect Power supply(12V DC) to one end (DC+, DC-) of LED external RGB controller, then another end(V+, B, G, R) port of LED external controller connect to 4 wires(V+, B, G, R) of lamp(with housing) as diagram below.

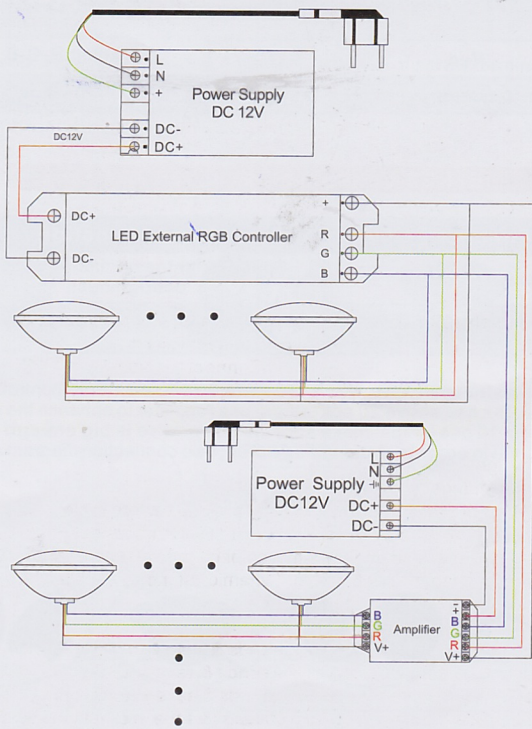
**Remark:** RGB controller power is 200W, if total lamp wattage is above 180W, need to add Amplifier(150W) to enhance RGB signal.

### Step 1



### Step 2

## External Control Connection Diagram



## LED External RGB controller



Sign	RF	Button	Description
		ON/OFF	<b>ON/OFF key:</b> Close or open controller (ON or OFF LED lamps)
		PAUSE	<b>Pause:</b> Press this button to rest at current color, press it again, it will continue to change. Other function: Press in 3 seconds, the buzzer can be on or off.
		MODE+ MODE-	Press the keys to select the change modes. Press <b>MODE+</b> over 3 seconds to enter cycle mode automatically. Press <b>MODE-</b> over 3 seconds to enter DIY cycle mode automatically.
		SPEED+ SPEED-	Press the keys to quicken or slower speed. Press <b>SPEED+</b> over 3 seconds, all speed change is restored to Default status. Press <b>SPEED-</b> over 3 seconds, the current change is restored to Default status.
		BRT+ BRT-	Press the keys to increase or decrease brightness. If keep pressing, the brightness will change continually.
		4 DIY keys	Press the keys for 3 seconds, the controller will save the present function mode automatically, which can save 4 modes and save repeatedly as well. Press "Mode-" in 3 seconds, the controller will play these 4 DIY modes automatically.

Note: Press "MODE-" key for 3 seconds, merely play the dynamic effects. If the DIY modes

**DC+:** Connect power supply (12V DC+)

**+:** Connect to lamp +

**G:** Connect to lamp G

**DC-:** Connect power supply (12V DC-)

**B:** Connect to lamp B

**R:** Connect to lamp R

### Remote controller for LED External RGB controller (effective distance: 50 meters)

- 1: On/off: Turn on/off the light
- 2: Pause: Pause the color change
- 3: M+: RGB change mode + or press 3 seconds to enter all RGB pattern cycle
- 4: M-: RGB change mode - or press 3 seconds to enter DIY RGB memory cycle
5. S +: Alter the color change speed when in dynamic color change & fading effect
6. S -: Speed down the color change speed when in dynamic color change & fading effect
7. B+: Increase brightness in solid color pattern
8. B-: Decrease brightness in solid color pattern
9. M1: DIY RGB change pattern memory, press 3 seconds & save your favorite RGB pattern.
10. M2: DIY RGB change pattern memory, press 3 seconds & save your favorite RGB pattern.
11. M3: DIY RGB change pattern memory, press 3 seconds & save your favorite RGB pattern.
12. M4: DIY RGB change pattern memory, press 3 seconds & save your favorite RGB pattern.