



Shenzhen Xuanan Lighting Co., Ltd

ADD: B807, Shiyan Micro Enterprise Science and Technology
Innovation Center, Guanghui Road, Longteng Community, Shiyan
Street, Baoan District, Shenzhen, 518108

Email: xuananlighting@hotmail.com

Mob: 86 180-2584-3954

PRODUCT SPECIFICATION

DC24V 60mm UCS2904 RGBW LED Filament Pixel Bulb

Model No.: XXA-POINT-6506ICRGBW-50





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1. PRODUCT DESCRIPTION

The 60mm RGBW LED Filament Pixel Bulb is a high-brightness, full-color addressable lighting solution. Featuring 6×SMD5050 RGBW LEDs plus 2 white filaments, controlled by the UCS2904 IC chip. Operating at DC24V with 2.1W power consumption, this bulb delivers vibrant RGBW color mixing and standalone white illumination. Available with IP20 (non-waterproof) or IP65/IP67 (waterproof) ratings, suitable for both indoor and outdoor applications.

2. KEY SPECIFICATIONS

Parameter	Specification
Model No.	XXA-6506RGBW-50
Dimensions	60 × 83 mm (D × H)
LED Type	6 × SMD5006 RGBW LEDs + 2 × White Filament
IC Chip	UCS2904
Operating Voltage	DC24V
Power Consumption	2.1W per bulb
Beam Angle	140°
Drill Hole Size	20mm
Lifespan	50,000 hours
IP Rating	IP20 (non-waterproof) / IP65 / IP67 (waterproof)
Housing Options	Transparent / Milky white
Connector Type	3-pin JST-SM (male & female)

BOALIGHT



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3. ELECTRICAL & CONTROL

Parameter	Specification
Input Voltage	DC24V
Control Protocol	UCS2904 (digital addressable)
Color Output	RGBW (full color + dedicated white)
Max. Series Connection	40 bulbs per power feed
Recommended Power Feed	Every 20 units
Connector	3-pin JST-SM, input + output for daisy-chaining

4. FEATURES

4.1 Upgraded RGBW Pixel Design

Significantly larger size and enhanced brightness compared to 20mm models.
Supports full-color RGBW pixel control, surpassing single-color limitations.

4.2 Dual Light Source

6× SMD5050 RGBW LEDs for vibrant color mixing + 2× white filaments for
dedicated warm/cool white illumination.

4.3 Daisy-Chain Capable

Each bulb comes with two 3-pin JST-SM connector cables (input & output), enabling
seamless series connection for multi-unit installations.

4.4 Power Distribution Recommendation

When connecting multiple units in series, it is recommended to feed power every 20
bulbs to maintain optimal performance and prevent voltage drop.

4.5 Weatherproof Options

Sealed with high-grade silicone gel for IP67 rating, providing robust weather
resistance for outdoor applications. IP20 version also available for indoor use.



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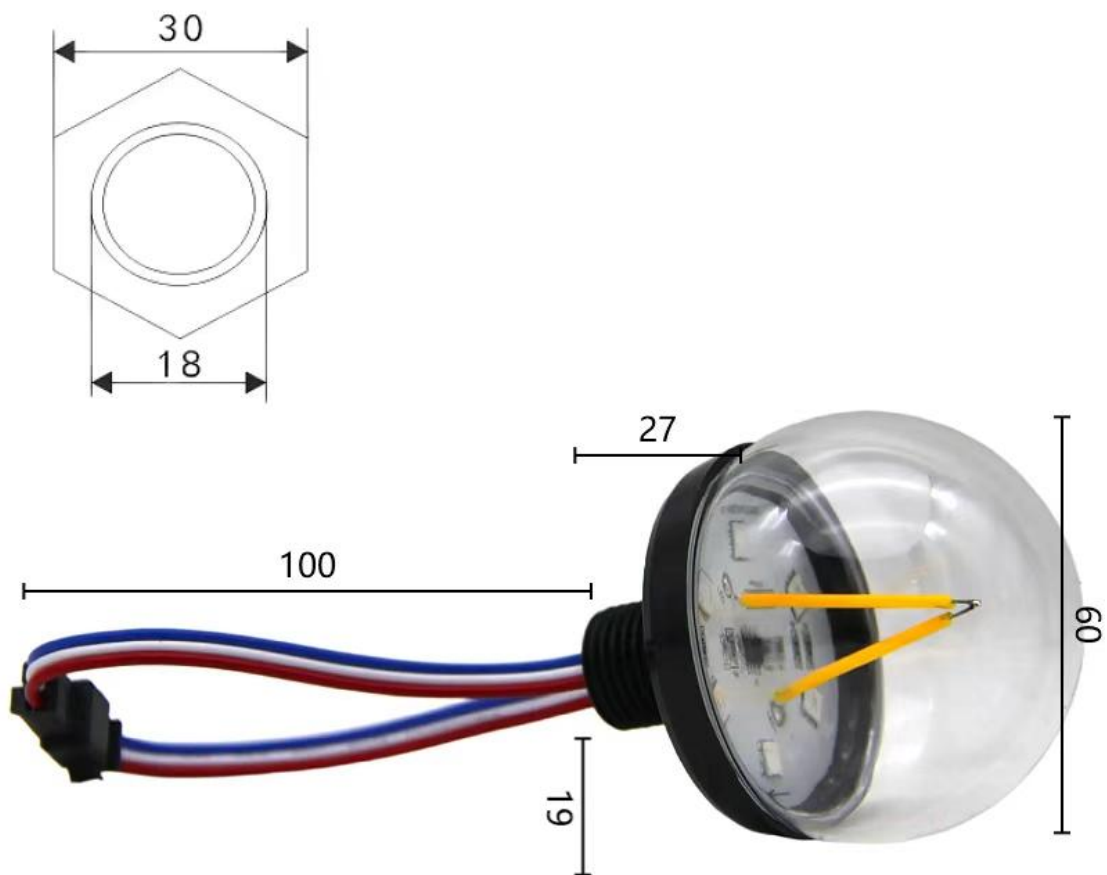
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4.6 Housing Options

Available in transparent or milky white housing to suit different lighting effects and diffusion requirements.

5. DIMENSIONS (MM):





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6. APPLICATIONS

- ❖ Outdoor amusement park lighting
- ❖ Ferris wheels and observation wheels
- ❖ Outdoor signage and billboards
- ❖ Casino signs and marquee displays
- ❖ Amusement park rides
- ❖ Playground and fairground lighting
- ❖ Game machines and traveling funfairs
- ❖ Waltzer and carousel rides
- ❖ Theme park attractions





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7. IP RATING COMPARISON

Version	IP Rating	Description
Non-waterproof	IP20	Indoor use only, no moisture protection
Waterproof	IP65	Dust-tight, protected against water jets
Waterproof	IP67	Dust-tight, temporary immersion protection



Waterproof, IP67

NO-waterproof, IP20

8. IMPORTANT NOTES

1. Connector type: 3-pin JST-SM (standard). Waterproof connectors available upon request.
2. Wire length: Fixed length, not customizable.
3. Maximum series connection: 40 bulbs per power supply feed.
4. Recommended power feed: Every 20 bulbs to prevent voltage drop.
5. Customization: Waterproof connector option available (IP67).



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9. ORDERING INFORMATION

Model No.	Description
XXA-6506RGBW-50-IP20	60mm RGBW pixel bulb, IP20 non-waterproof, transparent housing/milky white housing
XXA-6506RGBW-50-IP67	60mm RGBW pixel bulb, IP67 waterproof, silicone gel sealed, transparent housing/milky white housing

Note: The connectors and cable lengths can be customized per customer's requirements.

10. CERTIFICATIONS & COMPLIANCE

Parameter	Specification
Lifespan	50,000 hours
Certifications	Contact manufacturer for CE, ROHS, etc.



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