



IP65 Waterproof AC 220V LED Block Light

Product Specification

Model: G68-4L-IP65 | **Brand:** MIJI | **Version:** V1.0 / 2026



1. Product Overview

The **MIJI G68-4L-IP65** is a **high-performance IP65 waterproof AC 220V driverless LED block light**, engineered for **outdoor signage, rainproof lightboxes, semi-exposed channel letters, and humid environments**. The fully sealed white waterproof shell protects internal circuitry against rain, dust, humidity, and dirt - delivering long-term reliable performance in real outdoor weather.

Featuring an integrated linear constant-current IC, the module connects directly to AC 220V mains - **no external driver required**, simplifying installation and significantly reducing total project cost. With four selectable color temperatures and a 170 degree ultra-wide beam angle, this module delivers uniform, vibrant illumination for both indoor and outdoor applications.

2. Technical Parameters

Parameter	Specification
Product Model	G68-4L-IP65
Brand	MIJI
Input Voltage	AC 220V (180V to 240V, 50/60Hz)
Rated Power	4 W per Module
LED Quantity	4 pcs / Module (High-Brightness SMD)
Beam Angle	170 deg (Wide-Angle Optical Lens)
Color Temperature	3000K / 4000K / 6000K / 10000K (Selectable)
Luminous Flux	110 to 120 LM
Color Rendering (CRI)	Ra greater than 80
Protection Rating	IP65 (Rain, Dust, and Humidity Resistant)
Lifespan	Over 50,000 Hours
Working Temperature	-20 C to +50 C
Housing Material	Integrated White Waterproof ABS Shell (Fully Sealed)
Certification	CE, RoHS
Dimensions (L x W x H)	68 x 68 x 12 mm
Net Weight	Approx. 18 g / pcs

3. Color Temperature Options



CCT	Appearance	Typical Application
3000K	Warm White	Restaurants, hotels, warm-tone outdoor signs
4000K	Natural White	Retail storefronts, balanced commercial signs
6000K	Cool White	Supermarkets, pharmacies, bright signage
10000K	Ultra Cool	High-visibility outdoor brand displays

4. Key Features

- IP65 Waterproof Rated** - Fully sealed white ABS shell protects against rain, dust, and humidity. Engineered for outdoor exposed installation.
- Driverless Design** - Built-in constant-current IC enables direct AC 220V connection. No bulky external power supply required.
- Ultra-Wide 170 deg Beam** - Optical lens distributes light evenly across the surface, eliminating hot spots and dark zones.
- Four CCT Options** - Choose from 3000K, 4000K, 6000K, or 10000K to match any brand or environment.
- CE and RoHS Certified** - Manufactured to international safety and environmental standards.
- Long Lifespan** - High-quality LED chips deliver 50,000+ hours of reliable performance, even in harsh outdoor conditions.
- Easy Mounting** - Two screw holes plus integrated mounting tabs allow fast, secure outdoor installation.



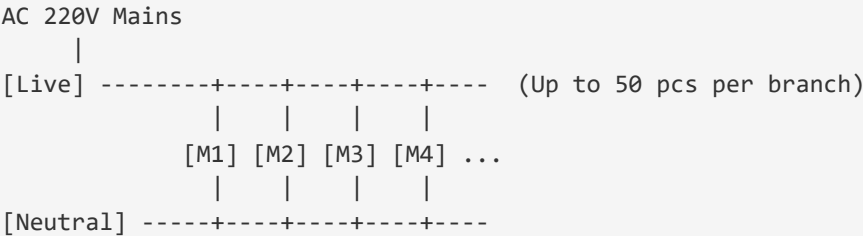
5. Applications

The MIJI G68-4L-IP65 is specifically engineered for **outdoor signage and humid commercial environments**, where weather resistance, even light distribution, and driverless installation are critical.

#	Application Scenario	Why MIJI G68-4L-IP65
1	Outdoor Billboard & Backlit Advertising Lightbox	IP65 sealed shell withstands rain and humidity in fully exposed outdoor displays.
2	Storefront Channel Letters and 3D Acrylic Signage	Rainproof design ensures long-term reliability for storefront letters mounted on building facades.
3	Outdoor Branded Lightboxes (Gas Stations, Banks, Hotels)	Industrial-grade waterproof rating delivers 24/7 stable performance in all weather.
4	Semi-Exposed Architectural Outline Lighting	Direct AC 220V wiring simplifies large-scale facade and outline installations on building exteriors.
5	Humid Indoor Environments (Bathrooms, Kitchens, Pool Areas)	IP65 rating safely handles condensation, splash, and high humidity zones.



6. Wiring Diagram



>>> When module count exceeds 50 pcs, start a new AC 220V branch <<<

Note: A maximum of **50 modules** may be connected to a single AC 220V branch. When more than 50 pcs are required, please feed an **additional AC 220V input** to start a new branch - this prevents voltage drop and ensures uniform brightness across all modules.



7. Installation and Safety Precautions

[!] HIGH-VOLTAGE WARNING This product operates directly on **AC 220V mains power**. Installation must be performed by a **qualified electrician**. Always disconnect power before handling.

1. **Power Off First** - Always switch off the mains before installation, maintenance, or removal.
2. **Sealed Wire Connections** - Use IP65-rated waterproof connectors or sealed junction boxes for all outdoor splices; do not leave any exposed copper.
3. **Polarity and Wiring** - Connect Live (L) and Neutral (N) wires correctly. Do not short-circuit.
4. **Maximum per Branch** - Do not exceed **50 pcs per AC 220V branch**. When installation requires more than 50 modules, feed an **additional AC 220V input** to start a new branch - this avoids voltage drop and uneven brightness across modules.
5. **IP65 Outdoor Rated** - Suitable for rain, splash, and dust-exposed environments. **Not rated for full immersion** (e.g. submersion in water or pool interior). For submersible applications, please select our IP67/IP68 series.
6. **Mounting Surface** - Ensure the mounting surface is clean and flat. Fix securely with screws through the integrated mounting tabs.
7. **Heat Dissipation** - Although the sealed shell is weatherproof, avoid stacking modules tightly or installing in fully enclosed unventilated cavities.
8. **Damage Inspection** - Do not power on modules with damaged housing, cracked seal, broken wires, or visible defects.
9. **Storage** - Keep in dry, ventilated conditions. Avoid direct sunlight and humidity during long-term storage.

8. Packaging Information

Item	Specification
Packing Quantity	1,000 pcs / carton
Carton Size (L x W x H)	70 x 38 x 45 cm
Gross Weight	Approx. 19 kg / carton
Net Weight / Module	Approx. 18 g

9. Quality Assurance

- **Warranty: 2-Year Limited Warranty** under proper installation and operating conditions.
- **Certification:** CE, RoHS compliant.
- **Waterproof Test:** 100% IP65 ingress-protection test before shipment.
- **Quality Control:** 100% aging test and full power-on inspection before packing.