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CHANZON 1DGL-JC-20W-NW

CHANZON High Power LED Chip 20W Natural White (4000K-4500K) Instruction Manual

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your CHANZON High Power LED Chip 20W Natural White. Please read this manual thoroughly before use to ensure optimal performance and longevity of the product.



Image: CHANZON 20W Natural White LED Chip, showcasing its compact design.

PRODUCT SPECIFICATIONS

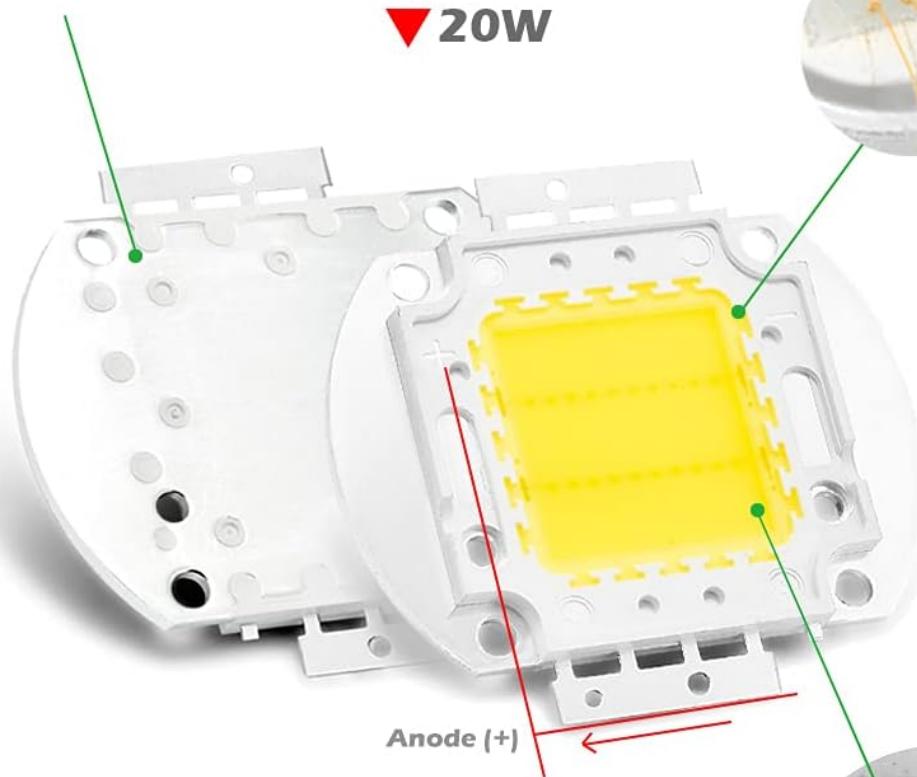
Specification	Value
Brand	CHANZON
Model Number	1DGL-JC-20W-NW
Power	20 Watt (Max)
Emitting Color	Natural White
Color Temperature	4000K-4500K
Recommended Current	600mA
Forward Voltage	30-34V

Luminous Flux	1600-1800LM
Emitting Angle	120-140 degree
Chip Type	Integrated COB LED Panel, 30mil chips
Wire Material	Double Golden Wire (99.99%)
Frame Material	Copper Frame
Lifespan	50,000 Hours (with proper heat management)
Product Dimensions	6.69 x 5.12 x 0.39 inches
Item Weight	0.352 ounces

The CHANZON LED chip features a high-quality COB LED panel with high brightness, double golden wire, and a copper frame for enhanced performance and durability.

2. With 2 Gold Wire

1. 100% Copper Holder



3. 100% Light up at low Voltage



Image: Internal construction of the CHANZON LED chip, highlighting the 100% copper holder and 2 gold wires for improved conductivity and heat dissipation.

SETUP AND INSTALLATION

- Power Supply Selection:** Use a constant current LED driver that matches the recommended current (600mA) and forward voltage (30-34V) for this 20W LED chip. Incorrect power supply can damage the LED.
- Heat Sink System:** A heat sink system is mandatory for proper operation and to achieve the stated lifespan. The working temperature of the LED chip should not exceed 60°C (140°F). Ensure the LED chip is securely mounted to an adequate heat sink.
- Polarity Connection:** Carefully observe the positive (anode +) and negative (cathode -) markings on the LED chip. Connect the LED driver output to the corresponding terminals on the LED chip. Incorrect polarity will prevent the LED from lighting up and may cause damage.
- Secure Mounting:** Mount the LED chip firmly to the fixture or application using appropriate fasteners. Ensure good thermal contact between the LED chip's base and the heat sink.

For compatible constant current LED drivers, search for "Chanzon 600mA Constant Current LED Driver" on Amazon (e.g., B01N374QM for plastic case, B01MSANK1C for aluminum case waterproof, B01N6U68LI for PCB board only).



Image: CHANZON LED chip showing the anode (+) and cathode (-) markings for correct electrical connection.

OPERATING INSTRUCTIONS

Once properly installed with a suitable constant current LED driver and heat sink, the CHANZON High Power LED Chip will illuminate when power is supplied. The chip is designed for continuous operation within its specified parameters.

- **Power On:** Apply power from the constant current LED driver to the connected LED chip.
- **Observe Light Output:** The LED chip should emit natural white light (4000K-4500K).
- **Avoid Direct Eye Exposure:** Do not look directly into the illuminated LED chip for extended periods, as the high intensity light can cause eye strain or damage.



Image: An illuminated CHANZON 20W Natural White LED chip connected to power, demonstrating its light output.

MAINTENANCE

The CHANZON High Power LED Chip is designed for long-term, low-maintenance operation. However, adherence to the following guidelines will help ensure its maximum lifespan:

- **Heat Management:** Regularly check that the heat sink is free from dust and debris to ensure efficient heat dissipation. Overheating is the primary cause of premature LED failure.
- **Cleanliness:** Keep the surface of the LED chip clean. Dust or dirt on the emitting surface can reduce light output and

affect thermal performance. Use a soft, dry cloth for cleaning.

- **Environmental Conditions:** Operate the LED chip within its specified environmental conditions (temperature, humidity).

TROUBLESHOOTING

Problem	Possible Cause	Solution
LED does not light up	Incorrect polarity; Faulty power supply; Loose connection; Damaged LED chip.	Verify polarity (+/-); Check power supply output; Secure all connections; Replace LED chip if damaged.
LED is dim or flickers	Insufficient current/voltage from driver; Overheating; Poor connection.	Ensure driver matches LED specifications; Improve heat sink contact/airflow; Check connections.
LED overheats rapidly	Inadequate heat sink; Poor thermal paste application; Excessive current.	Install larger/more efficient heat sink; Reapply thermal paste; Verify current from driver is within specifications (600mA).
Short lifespan	Consistent overheating; Over-current/over-voltage; Poor quality power supply.	Ensure proper heat management (below 60°C); Use a stable constant current driver within specified voltage/current ranges.

APPLICATIONS

The CHANZON High Power LED Chip is versatile and suitable for various lighting applications, including:

- LED Light Bulbs
- Cast Lights
- Floodlights
- Stage Lights
- Underwater Lamps
- Projection Lamps
- Plant Grow Lights
- UV Curing Lamps (specific variants)
- Mining Lamps
- DIY Lighting Projects

Power	Color	Color Temperature Wavelength	Forward Voltage	Forward Current	Luminous Flux
20W (10x2)	Warm White	3000-3500K	30-34V	560-700mA	1600-1800LM
	Natural White	4000-4500K	30-34V	560-700mA	1600-1800LM
	White	6000-6500K	30-34V	560-700mA	1600-1800LM
	Cool White	10000-15000K	30-34V	560-700mA	1600-1800LM
	Red	620-625nm	20-22V	560-700mA	1600-1800LM
	Blue	460-470nm	30-34V	560-700mA	350-400LM
	Cyan	490nm	30-34V	560-700mA	500-550LM
	Green	520-525nm	30-34V	560-700mA	1600-1800LM
	Yellow	590-592nm	20-22V	560-700mA	1400-1600LM
	UV/Purple	395-400nm	30-34V	560-700mA	/
	Royal Blue	440-445nm	30-34V	560-700mA	350-400LM
	Deep Red	660nm	20-22V	560-700mA	/
	Full Spectrum	380-840nm	30-34V	560-700mA	350-450LM
	IR(730nm)	730-740nm	20-22V	560-700mA	/
	IR(850nm)	850nm	16-18V	560-700mA	/
	IR(940nm)	940nm	14-16V	560-700mA	/
	RGB (6x3)	R: 620-625nm G: 520-525nm B: 460-465nm	R:12-14V G:18-21V B:18-21V	R:280-350mA G:280-350mA B:280-350mA	R:180-200LM G:250-300LM B:60-80LM

Image: A table detailing various color options and their corresponding specifications for CHANZON LED chips, including warm white, natural white, red, blue, green, yellow, UV, and IR.

PRODUCT VIDEOS

Review of LED Chip 20W from Chanzon

Your browser does not support the video tag.

Video: A detailed review of the CHANZON 20W LED chip, demonstrating its features, construction, and various color options. This video highlights the quality and versatility of the product.

Chanzon LED Chip 20W Bulb Lamp Beads DIY Lighting

Your browser does not support the video tag.

Video: This video showcases the CHANZON 20W LED chip in action, demonstrating its brightness and suitability for DIY lighting projects. It provides a visual representation of the chip's performance.

WARRANTY AND SUPPORT

Specific warranty information for this product is not provided in the available data. For warranty details, technical support, or further inquiries, please contact CHANZON directly through their official channels or the retailer where the product was purchased.

You can visit the [CHANZON Store on Amazon](#) for more information.