

Azocek DW 220W inverter

Azocek 220W Power Inverter for Dewalt 20V Batteries User Manual

Model: DW 220W Inverter

Brand: Azocek

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Azocek 220W Power Inverter. This device converts 20V DC power from compatible Dewalt batteries into 110V-120V AC power, and offers multiple USB and Type-C charging ports, along with an integrated LED work light. Please read this manual thoroughly before use and retain it for future reference.

2. SAFETY INFORMATION

Observe all safety precautions to prevent injury or damage to the device. This inverter is designed for use with Dewalt 18V/20V batteries (e.g., DCB206, DCB205, DCB204). Ensure the battery is fully charged before use.

- **Ventilation:** The product has a built-in cooling fan. Ensure air vents are not covered during operation to prevent overheating.
- **Usage:** This product is for output use only and should not be used for battery charging.
- **Disconnection:** Disconnect the product from the battery when not in use.
- **AC Port:** The AC port provides 110V AC output. Do not insert any objects into the AC port or disassemble the product to avoid electric shock or damage.
- **Environment:** Use the product at room temperature. Avoid exposure to extreme temperatures, humidity, or flammable gases.
- **Battery Compatibility:** Use this product with official and genuine batteries.
- **Overload Protection:** The inverter provides comprehensive protection against short circuits, overcurrent, low voltage, overheating, overload, and over-discharge.



Figure 2.1: Multiple Safety Protections

3. PRODUCT FEATURES

The Azocek 220W Power Inverter is a versatile tool designed for portable power needs.

- **Battery Compatibility:** Compatible with Dewalt 18V/20V batteries (battery not included).
- **Power Output:** Converts 20V DC to 110V-120V AC (220W rated, 250W peak).
- **Charging Ports:** Features one AC outlet, two 18W USB QC ports, and one 30W PD Type-C port for simultaneous rapid charging.
- **LED Work Light:** 400LM LED light with 3 adjustable brightness levels (35%, 70%, 100%) and a strobe function. The light head is 90-degree adjustable.
- **Cooling System:** Integrated cooling fan for effective heat dissipation.



Output Voltage: AC110V~120V
 Input Voltage: DC20V(16V~21V)
 Frequency: 60Hz±3Hz
 AC port output Power: 220W rated
 USB-L+Type-C Output: shared 30W
 USB-R Output: QC18W

Under Voltage Protection: 16V±0.5V
 Overload Protection: Approx. 250W
 Operating Temperature: 14°F~104°F
 AC Waveform: Modified sine wave
 LED Lamp: Max 400LM

Figure 3.1: Product Overview

LED UPGRADE

- ⬆️ 400-lumen LED light
- ⬆️ Supporting a strobe function
- ⬆️ Three adjustable brightness levels
- ⬆️ 90-degree adjustable light head



OFF



35%



70%



100%

STROBE FUNCTION

Figure 3.2: LED Light Features

220W PORTABLE POWER INVERTER GENERATOR

Fast Charging Upgrade



USB-A
Output QC18W



Type-C
Output PD30W



AC Port
Output power 220W



Figure 3.3: Charging Multiple Devices

4. PACKAGE CONTENTS

- Azoczek 220W Power Inverter
- User Manual

5. SPECIFICATIONS

Feature	Specification
Brand	Azoczek
Model Number	DW 220W inverter
Input Voltage	20 Volts (DC)


Output Voltage	110-120 Volts (AC)
Wattage	220W (Rated)
AC Output Waveform	Modified Sine Wave
Frequency	60Hz \pm 3Hz
USB-L Output	QC18W
USB-R Output	QC18W
Type-C Output	PD30W
LED Lamp	Max 400LM
Operating Temperature	14°F ~ 104°F (-10°C ~ 40°C)
Overload Protection	Approx. 250W
Under Voltage Protection	16V \pm 0.5V
Enclosure Material	Plastic

6. SETUP

To begin using your Azocek 220W Power Inverter, follow these steps:

1. **Prepare Battery:** Ensure your compatible Dewalt 18V/20V battery (e.g., DCB206, DCB205, DCB204) is fully charged.
2. **Attach Inverter:** Slide the Azocek Power Inverter onto the top of the charged battery until it clicks securely into place.
3. **Verify Connection:** The inverter is now ready for operation.

LIGHTWEIGHT DESIGN FOR EASY PORTABILITY

 0.68LB

3.15in
2.75in
4.33in



Perfect Compatibility with DeWalt 20V Lithium Batteries

NOTE: Battery is not included

Figure 6.1: Attaching the Inverter to a Battery

7. OPERATING INSTRUCTIONS

The inverter offers multiple functions for power conversion and illumination.

7.1 Power Output Modes

1. **USB Only Mode:** Press the power button once. The blue LED indicator will light up, indicating that the USB-A and Type-C ports are active (discharge mode).
2. **AC and USB Mode:** Press the power button a second time. The blue-green LED indicator will light up, indicating that the USB-A, Type-C, and AC outlet are all active (discharge mode).
3. **Turn Off:** Press the power button a third time to turn off all power output. Remove the battery if not in use.

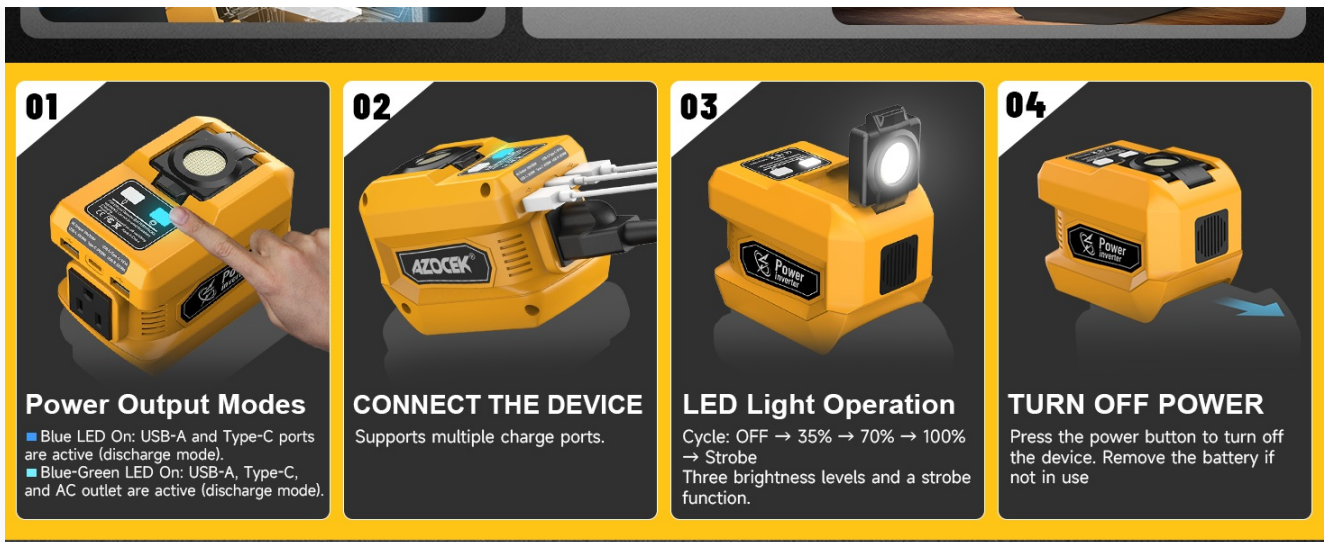


Figure 7.1: Power Output Modes and Operation

7.2 LED Light Operation

The integrated LED light has multiple brightness settings and a strobe function.

- **Activate Light:** Press the light button once to turn on the LED light at 35% brightness.
- **Adjust Brightness:** Subsequent presses will cycle through 70% brightness, 100% brightness, and strobe function.
- **Turn Off Light:** After the strobe function, the next press will turn off the LED light.
- **Adjust Angle:** The LED light head can be adjusted 90 degrees to direct illumination.

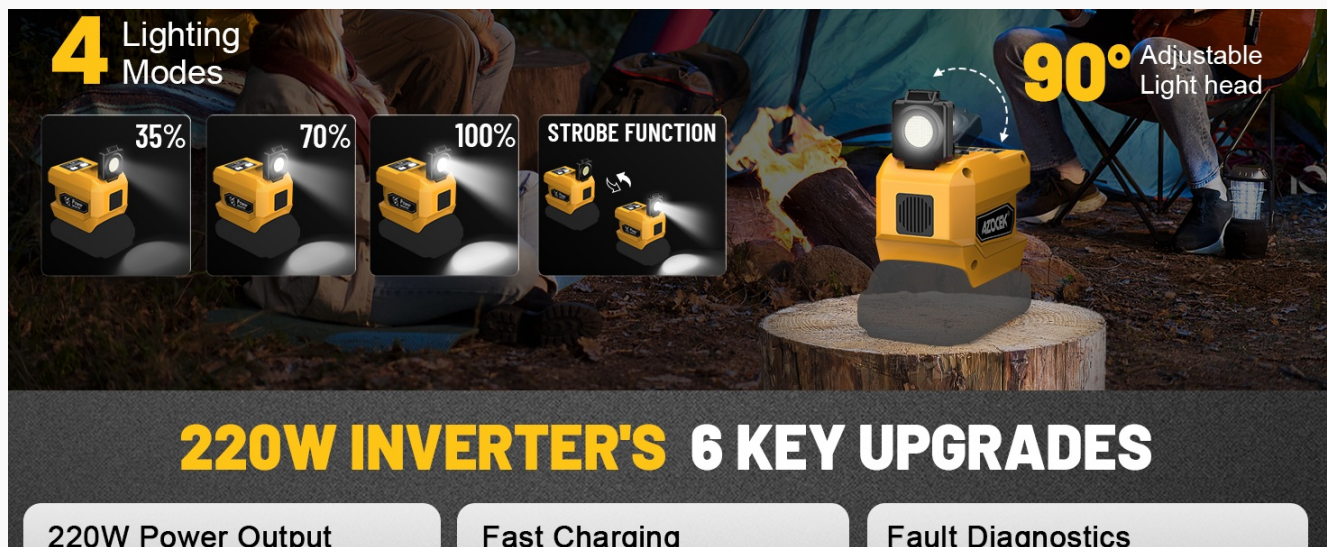


Figure 7.2: LED Light Modes

8. BATTERY USAGE TIME

The approximate usage time varies depending on the battery capacity and the device being powered. The table below provides estimates for different battery capacities.

BATTERY USAGE TIME NOTE: Battery is not included		2 AH	4 AH	5 AH
LED Only (low light mode)		50 h	100 h	125 h
Single USB Port (QC18W)		2 h	4 h	5 h
Dual USB Ports (QC18W + PD30W)		0.75 h	1.5 h	1.9 h
AC Outlet Only (220W device)		10 min	20 min	25 min

Note: These times are approximate and may vary based on device power requirements and battery health

Figure 8.1: Estimated Battery Usage Time

Note: These times are approximate and may vary based on device power requirements and battery health. Battery not included.

9. MAINTENANCE

To ensure the longevity and optimal performance of your Azocek 220W Power Inverter, follow these maintenance guidelines:

- **Cleaning:** Wipe the exterior of the inverter with a dry, soft cloth. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the inverter in a cool, dry place away from direct sunlight and extreme temperatures. Disconnect the battery before storage.
- **Ventilation:** Regularly check that the cooling fan and air vents are free from dust and debris.
- **Avoid Moisture:** Do not expose the inverter to water or other liquids.

10. TROUBLESHOOTING

Refer to the table below for common issues and their solutions.

Indicator Status	Inverter Status	Solutions
Red LED on steady	Overtemperature	High internal temperature. Stop use & check fan.
Purple LED flashes 10 times	Input overdischarge protection	Low battery voltage. Stop use and replace.
Yellow LED flashes 10 times	Output overload protection	The inverter output is too high. Stop using it.
Red LED flashes 10 times	Short-circuit protection	Output short-circuit. Stop use & check load for damage.
Yellow and red	Internal inverter failure	Stop use immediately.

11. WARRANTY AND SUPPORT

This Azocek product comes with a **1-YEAR** warranty. For support or warranty claims, please visit the official Azocek

store or contact customer service.

Official Azocek Store: [Azocek Store on Amazon](#)

12. MEDIA GALLERY

Product Images



Figure 12.1: Azocek 220W Power Inverter



Figure 12.2: Multi-function Inverter with Accessories



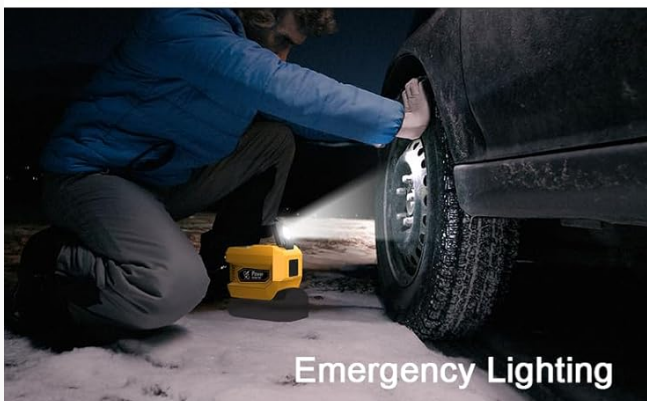
Versatile Applications



Charging Devices



Camping



Emergency Lighting



DIY Projects

Figure 12.3: Versatile Applications

Official Product Videos

Your browser does not support the video tag.

Video 12.1: Azoczek 220W Power Inverter Compatible with 20V Battery. This video demonstrates the inverter's compatibility and charging capabilities.

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Video 12.2: Azoczek 220W Inverter for 20V battery. This video provides a detailed look at the inverter's features and functions.

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Video 12.3: Azoczek 220W Power Inverter Compatible with Dewalt 20V Battery. This video showcases the inverter's use with Dewalt batteries.

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Video 12.4: Azoczek power inverter. A brief overview of the Azoczek power inverter.

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