DEWALT DXAELJ25

DEWALT DXAELJ25 Portable Lithium Jump Starter User Manual

Model: DXAELJ25 | Brand: DEWALT

1. Introduction

The DEWALT DXAELJ25 is a versatile and compact portable lithium jump starter and USB power bank. Engineered to provide reliable starting power for most cars and trucks up to 8-cylinders, it delivers 2500 peak amps. Beyond jump-starting, this unit serves as a robust power source for your electronic devices, featuring multiple USB ports for convenient charging on the go. Its integrated safety features, including reverse polarity protection, ensure secure and efficient operation.



Image: Front view of the DEWALT DXAELJ25 Portable Lithium Jump Starter, showcasing its compact design and prominent DEWALT branding.

2. What's in the Box

Upon opening your DEWALT DXAELJ25 package, please verify that all the following components are included:

- DEWALT DXAELJ25 Jump Starter Pack
- Jumper Cables with Powder-Coated Metal Clamps
- USB-C/USB-C Charging Cable
- USB-A/USB-A Charging Cable
- 30W USB-C AC Adapter
- 30W USB-C DC Adapter
- Storage Bag



Image: All components included in the DEWALT DXAELJ25 retail package, laid out for clear identification.

3. Safety Information

WARNING: Read and understand all safety information before operating this jump starter. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- Always wear eye protection when working with batteries.
- Ensure proper ventilation when charging or jump-starting.
- Do not expose the unit to rain or wet conditions.
- Do not operate the unit if it has been dropped or damaged.
- Keep out of reach of children.
- The unit features reverse polarity protection, but always double-check connections before attempting to jump-start.
- Do not attempt to jump-start frozen batteries.
- This unit is designed for 12-volt AGM, Gel, and Wet cell batteries only.

4. Setup

Initial Charging

Before first use, fully charge your DEWALT DXAELJ25. This ensures optimal performance and extends battery life.

1. Connect the included USB-C AC Adapter to the 60W PD In/Out USB Type C port on the jump starter.
2. Plug the AC adapter into a standard wall outlet.
3. The battery status indicators on the unit will illuminate, showing the charging progress. Charge until all indicators are solid, indicating a full charge.
4. Once fully charged, disconnect the unit from the power source.

Alternatively, you can use the 30W USB-C DC Adapter to charge the unit from a vehicle's 12V accessory outlet.

5. Operating Instructions

5.1. Jump Starting a Vehicle

The DEWALT DXAELJ25 is capable of jump-starting most cars and trucks up to 8-cylinders.

1. Ensure the jump starter is fully charged.
2. Turn off the vehicle's ignition and all accessories.
3. Connect the **RED (+)** clamp to the vehicle's positive battery terminal.
4. Connect the **BLACK (-)** clamp to a clean, unpainted metal part of the vehicle's engine block or chassis, away from the battery. *(The unit features reverse polarity protection, indicated by a warning light if connected incorrectly.)*
5. Once connected, press the power button on the jump starter. The unit will automatically detect the battery and prepare for jump-starting.
6. Start the vehicle. If the vehicle does not start on the first attempt, wait at least 30 seconds before trying again. Do not crank for more than 5 seconds per attempt.
7. Once the vehicle starts, immediately disconnect the **BLACK (-)** clamp first, followed by the **RED (+)** clamp.
8. Store the jump starter and cables in the provided storage bag.



Image: The DEWALT DXAELJ25 jump starter with its clamps connected to a vehicle's battery terminals, demonstrating proper setup for jump-starting.

5.2. USB Charging Electronic Devices

The DXAELJ25 can charge various electronic devices via its multiple USB ports.

- **60W PD In/Out USB Type C:** This port can be used for both charging the jump starter and providing high-speed power delivery to compatible devices like laptops, tablets, and smartphones.
- **25W USB Type C-PD:** Provides fast charging for USB-C compatible smartphones and tablets.
- **15W USB Type-A:** Standard USB port for charging a wide range of USB-powered devices.

1. Connect your device's charging cable to the appropriate USB port on the jump starter.
2. The jump starter will automatically begin charging your device.



Image: Close-up view of the DEWALT DXAELJ25's USB-C and USB-A charging ports, highlighting their accessibility for device charging.

5.3. Using the LED Work Light

The integrated 400 lumen LED work light provides illumination for repairs or emergencies in low-light conditions.

1. Press the light button (usually indicated by a light bulb icon) on the unit to turn the LED light on.
2. Press the button again to cycle through different light modes (if available) or to turn it off.

6. Charging the Unit

To ensure your DXAELJ25 is always ready for use, it's important to keep it charged. The unit can be recharged using either the included AC or DC adapters.

Using the AC Adapter (Wall Outlet)

1. Connect the 30W USB-C AC Adapter to the 60W PD In/Out USB Type C port on the jump starter.
2. Plug the AC adapter into a standard 120V AC wall outlet.
3. The battery status indicators will show charging progress. Disconnect when all indicators are solid.

Using the DC Adapter (Vehicle Outlet)

1. Connect the 30W USB-C DC Adapter to the 60W PD In/Out USB Type C port on the jump starter.
2. Plug the DC adapter into your vehicle's 12V accessory outlet.
3. The battery status indicators will show charging progress. Disconnect when all indicators are solid.

7. Maintenance

Proper maintenance will prolong the life and performance of your DEWALT DXAELJ25.

- **Regular Recharging:** For optimal battery health, recharge the unit every 3-4 months, even if not in use.
- **Storage:** Store the jump starter in a cool, dry place, ideally between 40°F (4°C) and 70°F (21°C). Avoid extreme temperatures, both hot and cold, as they can degrade battery performance.
- **Cleaning:** Wipe the unit with a dry, soft cloth. Do not use harsh chemicals or abrasive cleaners. Ensure clamps are clean and free of corrosion.
- **Cable Inspection:** Periodically inspect the jumper cables and clamps for any signs of damage, fraying, or corrosion. Replace if necessary.

8. Troubleshooting

Problem	Possible Cause	Solution
Unit does not turn on or respond.	Battery is fully discharged.	Recharge the unit using the AC or DC adapter.
Vehicle does not start after jump attempt.	Improper clamp connection; Vehicle battery severely discharged; Vehicle issue unrelated to battery.	Ensure clamps are securely connected to the correct terminals. Allow unit to rest for 30 seconds before re-attempting. If issues persist, consult a mechanic.
Reverse polarity warning light illuminates.	Clamps are connected incorrectly.	Immediately disconnect clamps and re-connect them to the correct positive (+) and negative (-) terminals.
Unit heats up excessively or flashes lights erratically.	Internal fault or overload.	Immediately disconnect the unit from any power source or vehicle. Do not attempt to use it. Contact customer support for assistance.

9. Specifications

Feature	Specification
Brand	DEWALT
Model Number	DXAELJ25
Peak Output Current	2500 Amps
Amperage	2500 Amps
Product Dimensions	1.2"D x 3"W x 7"H
Item Weight	2 Pounds
USB-C PD (In/Out)	60W

Feature	Specification
USB-C PD (Output)	25W
USB-A (Output)	15W
LED Work Light	400 Lumens
Automotive Fit Type	Universal Fit
Compatible Battery Types	12 Volt AGM, Gel, and Wet cell batteries

10. Warranty and Support

This DEWALT DXAELJ25 Portable Lithium Jump Starter is covered by a **one (1) year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.
For warranty claims, technical support, or any questions regarding the operation or maintenance of your unit, please contact DEWALT customer service. Keep your proof of purchase for warranty validation.
For the most up-to-date support information, please visit the official DEWALT website or refer to the contact details provided in your product packaging.

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Ask a question about this manual

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

What is the meaning of the four symbols under the battery icon on the front of the DEWALT DXAELJ25 2500 Peak Amp Lithium Jump Starter?

On the DEWALT DXAELJ25, the four symbols (or lights) located under the battery icon serve as the Battery Status Indicators. Their primary functions are as follows:Charge Level: When the unit is powered on or...

Read full answer

Can the DEWALT DXAELJ25 2500 Peak Amp Lithium Jump Starter be charged using any USB-C charger, or is a specific adapter necessary?

The DEWALT DXAELJ25 features a 60W PD In/Out USB Type-C port, which is designed for charging the unit. While the package includes a specific 30W USB-C AC adapter and a 30W USB-C DC adapter,...

Read full answer