DEWALT DXAELJ16

DeWalt DXAELJ16 1600 Peak Amp Jump Starter Battery Booster with USB Power Station

Model: DXAELJ16 | Brand: DEWALT

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1. Introduction

The DeWalt DXAELJ16 is a portable jump starter and USB power bank designed for convenience and reliability. This compact unit provides 1600 peak amps of starting power, capable of instantly jump starting cars and trucks with engines up to V8 size. It also features integrated USB ports for charging various electronic devices and a bright LED worklight for illumination in low-light conditions.

Key Features:

- **1600 Peak Amps:** Provides sufficient power to jump start vehicles up to V8 engines.
- **Rechargeable Lithium Battery:** Equipped with both AC and DC adapters for versatile recharging options.
- **USB Charger:** Features USB-A and USB-C ports to charge laptops, tablets, smartphones, and other USB-powered devices.
- **LED Worklight:** An integrated bright LED light assists with roadside repairs or general illumination after dark.
- **Anti-Polarity Protection:** Ensures safe operation by preventing damage if jumper cables are connected incorrectly.



Image 1.1: The DeWalt DXAELJ16 Jump Starter unit with its attached jumper cables. The unit is black and yellow, featuring the DEWALT logo and power indicators.

2. Important Safety Information

WARNING: Cancer and reproductive harm. For more information go towww.P65Warnings.ca.gov.

Always read and understand all safety warnings and instructions before using this product. Failure to follow these warnings and instructions may result in electric shock, fire, and/or serious injury.

General Safety Precautions:

- Do not expose the unit to rain or wet conditions.
- Do not operate the unit if it has received a sharp blow, been dropped, or otherwise damaged.
- Do not disassemble the unit. Refer all servicing to qualified service personnel.
- Keep children and unauthorized persons away from the work area.
- Wear eye protection when working with batteries.
- Ensure proper ventilation when charging or jump starting.
- Avoid touching battery terminals or clamps together.

- Do not use the unit to jump start a frozen battery.

3. What's in the Box

Upon opening the package, verify that all components are present and undamaged:

- DeWalt DXAELJ16 Jump Starter Unit
- Powder Coated Metal Clamps (attached to the unit)
- USB Charging Cable
- 30W PD AC Charger
- 30W PD DC Adapter



Image 3.1: An illustration showing the DeWalt DXAELJ16 unit, its attached clamps and cables, USB charging cable, AC/DC chargers, and a storage bag.

4. Product Components

Familiarize yourself with the various parts of your DeWalt DXAELJ16 Jump Starter:

- **Power Button:** Activates the unit and the LED worklight.
- **Battery Level Indicator:** A series of LED lights indicating the remaining charge of the internal battery.
- **USB-A Charging Port:** For charging standard USB devices.
- **USB-C Charging Port:** For charging modern USB-C devices and for recharging the jump starter itself.
- **LED Worklight:** Provides illumination.
- **Smart Controller with Jumper Cables:** Features reverse polarity protection and connects to the vehicle battery.



Image 4.1: A detailed diagram illustrating the various components of the DXAELJ16, including the LED light, USB-A and USB-C charging ports, smart controller, and powder-coated metal clamps.



Image 4.2: A close-up view of the USB-A and USB-C charging ports located on the side of the DeWalt DXAELJ16 unit.

5. Initial Setup and Charging

Before first use, it is recommended to fully charge the DeWalt DXAELJ16 unit. This ensures optimal performance and extends battery life.

Charging the Unit:

1. Locate the USB-C input port on the unit.
2. Connect the provided USB charging cable to the USB-C input port on the jump starter.
3. Connect the other end of the USB charging cable to either the 30W PD AC Charger (for wall outlet charging) or the 30W PD DC Adapter (for vehicle 12V outlet charging).
4. Plug the charger into the appropriate power source. The battery level indicator lights will illuminate, showing the charging progress.
5. The unit is fully charged when all battery indicator lights are solid. Disconnect the charger once charging is complete.

It is advisable to recharge the unit after each use or at least every 3-6 months to maintain battery health, even if not used.

6. Operating Instructions

6.1. Jump Starting a Vehicle

Ensure the jump starter is fully charged before attempting to jump start a vehicle.

1. **Prepare the Vehicle:** Turn off the vehicle's ignition and all accessories (lights, radio, air conditioning). Engage the parking brake.
2. **Connect Red Clamp:** Connect the red (positive, +) clamp of the jump starter to the positive (+) terminal of the vehicle's battery.
3. **Connect Black Clamp:** Connect the black (negative, -) clamp to a clean, unpainted metal part of the vehicle's engine block or chassis, away from the battery and moving parts. Do not connect directly to the negative battery terminal unless specified by the vehicle manufacturer.
4. **Activate Jump Starter:** Press the power button on the DeWalt DXAELJ16 unit. The smart controller will perform a safety check. If the connections are correct, the indicator light on the smart controller will turn green. If an error is detected (e.g., reverse polarity), an alarm will sound, and the indicator will show red. Correct the connection before proceeding.

5. **Start Vehicle:** Once the smart controller indicates a safe connection, start the vehicle's engine. If the vehicle does not start after 5 seconds, wait at least 30 seconds before attempting again.
6. **Disconnect Clamps:** Once the vehicle starts, immediately disconnect the black (negative, -) clamp from the vehicle chassis/engine block, then disconnect the red (positive, +) clamp from the battery terminal.
7. **Store Unit:** Turn off the jump starter and store it in a safe place.



Image 6.1: The DeWalt DXAELJ16 unit highlighting its 1600 Peak Amp capability and compatibility with V8 engines.

6.2. Using the USB Power Station

The DeWalt DXAELJ16 can be used to charge various portable electronic devices via its USB ports.

1. Ensure the jump starter unit has sufficient charge.
2. Connect your device's USB charging cable to either the USB-A or USB-C output port on the jump starter.
3. Connect the other end of the cable to your electronic device.

4. The unit will automatically begin charging your device. The battery indicator lights will show the remaining power.
5. Disconnect your device once charging is complete.



Image 6.2: The DeWalt DXAELJ16 unit emphasizing its 3.1A Max USB Power output for charging electronic devices.

6.3. Using the LED Worklight

The integrated LED worklight provides convenient illumination in dark environments.

- To turn on the LED worklight, press and hold the power button for approximately 2 seconds.
- To cycle through light modes (e.g., steady, strobe, SOS, off), briefly press the power button again.
- To turn off the light, cycle through all modes until it turns off, or press and hold the power button again.

7. Recharging the Unit

To ensure your DeWalt DXAELJ16 is always ready for use, it is crucial to keep it charged. The unit can be recharged using either the supplied AC wall charger or the DC car charger.

Recharging via AC Wall Charger:

1. Connect the USB-C end of the charging cable to the unit's input port.
2. Connect the USB-A end of the charging cable to the 30W PD AC Charger.
3. Plug the AC charger into a standard 120V AC wall outlet.
4. The battery indicator lights will flash during charging and become solid when fully charged.

Recharging via DC Car Charger:

1. Connect the USB-C end of the charging cable to the unit's input port.
2. Connect the USB-A end of the charging cable to the 30W PD DC Adapter.
3. Plug the DC adapter into your vehicle's 12V accessory outlet (cigarette lighter socket).
4. The battery indicator lights will flash during charging and become solid when fully charged.

Note: For optimal battery life, avoid completely draining the unit before recharging. Recharge the unit every 3-6 months even if not used to prevent deep discharge.

8. Maintenance and Storage

Cleaning:

- Wipe the unit with a soft, dry cloth.
- Do not use abrasive cleaners or solvents.
- Keep the charging ports free of dust and debris.

Storage:

- Store the unit in a cool, dry place, away from direct sunlight and extreme temperatures.
- Ensure the unit is fully charged before long-term storage.
- Recharge the unit every 3-6 months during storage to maintain battery health.
- Keep the unit and its accessories in the provided storage bag or a suitable protective case to prevent damage.

9. Troubleshooting

If you encounter issues with your DeWalt DXAELJ16, refer to the following common problems and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Unit does not turn on.	Battery is completely discharged.	Charge the unit fully using the provided AC or DC charger.
Unit does not charge.	Charger or cable is faulty; charging port is dirty; power outlet issue.	Try a different charger/cable. Clean the charging port. Test the power outlet with another device.
Vehicle does not jump start.	Incorrect clamp connection; vehicle battery is severely damaged; unit is not sufficiently charged; vehicle engine is too large.	Ensure clamps are connected correctly (red to positive, black to chassis). Fully charge the unit. Consult a mechanic if battery is severely damaged. Confirm vehicle engine size is within unit's capacity (up to V8).
Smart controller shows red light/alarm.	Reverse polarity connection; short circuit detected.	Immediately disconnect clamps and re-connect them correctly. Ensure clamps do not touch each other.
USB devices not charging.	Unit battery is low; USB cable is faulty; device is not compatible.	Charge the unit. Try a different USB cable. Ensure your device is compatible with standard USB charging.

If the problem persists after trying these solutions, contact DEWALT customer support for further assistance.

10. Technical Specifications

Feature	Detail
Brand	DEWALT
Model Number	DXAELJ16
Peak Amperage	1600 Amps
Product Dimensions (D x W x H)	8.8" x 1.8" x 4.1"
Item Weight	1 pound
Battery Type	Lithium Ion
USB Output	3.1A Max (USB-A & USB-C charging ports)
Manufacturer	Baccus Global LLC
UPC	814632015116
Safety Certification	ETL



Image 10.1: The DeWalt DXAELJ16 unit with its dimensions labeled: 7" H, 3.5" W, 1" L.

11. Warranty and Customer Support

For information regarding the product warranty, please refer to the warranty card included with your purchase or visit the official DEWALT website. Warranty terms and conditions may vary.

If you require technical assistance, have questions about product operation, or need to report a defect, please contact DEWALT customer support. Contact information can typically be found on the DEWALT official website or within the product packaging.

A detailed User Guide (PDF) is also available for download: Download User Guide (PDF)

For more information about DEWALT products, visit the official DEWALT store: Visit DEWALT Store on Amazon

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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

Why is the solid red light on my DeWalt DXAELJ16 1600A jump starter staying on even when it is not clamped to a battery?

On the DeWalt DXAELJ16 1600 Peak Amp Jump Starter, a solid red light on the smart controller typically indicates a safety error. While the manual primarily associates this light with a reverse polarity connection...

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