

1. Overview

The EigoTrav PD-J330 is a portable, multi-function device designed for vehicle emergency starting and roadside assistance. Its primary function is to jump-start 12V vehicle batteries. The unit integrates a power bank for charging USB devices and a multi-mode LED flashlight.

Key Capabilities:

- Jump-start petrol engines up to 7.5L and diesel engines up to 6.0L.
- Provide emergency power via USB ports to charge mobile devices.
- Function as an emergency light with multiple lighting modes.



Figure 1: The EigoTrav PD-J330 Portable Car Jump Starter.

2. Features and Components

2.1 Physical Components and Layout



Figure 2: Component layout and ports.

- **LCD Display:** Shows battery level and status information.
- **Button Switch:** Controls the device's main functions and lighting modes.
- **LED Torch:** The main light source for the flashlight functions.
- **Type-C Input Port (5V/2A):** For recharging the jump starter's internal battery.
- **USB Output Ports (5V/2A):** For charging external devices like smartphones and tablets.
- **Smart Clamp Connectors:** Heavy-duty clamps (red/positive and black/negative) for connecting to the vehicle battery.

2.2 Core Features

High-Power Jump Starting

- Peak current: 6000 Amps.
- Operating voltage: 12V DC.
- Compatible with petrol engines up to 7.5L and diesel engines up to 6.0L.

3-in-1 Multifunction Device

- **Jump Starter:** Primary function for starting vehicles.
- **Power Bank:** Equipped with USB-A output ports to charge electronic devices.
- **Emergency Light:** Integrated LED flashlight with multiple modes.

Multi-Function Wide Angle Light

The LED light offers several modes for different scenarios:

- **Flashlight Mode:** Constant beam for illumination.
- **Strobe Mode:** Flashing light for emergency signaling.
- **SOS Mode:** Distress signal pattern.



Figure 3: Flashlight mode illustration.

Environmental Resistance

- Shockproof construction.
- IP65 waterproof rating (protected against dust and water jets).
- Operational temperature range: -20°C to 60°C.



Figure 4: Operating temperature range display.

Safety Protections

The device includes multiple electronic protections for safe operation:



Figure 5: Safety protection systems.

- Short Circuit Protection
- Overload / Over Voltage Protection
- Overheating Protection

- Deep Discharge Protection
- Reverse Polarity Protection

3. Use Guide

3.1 Before First Use

1. Fully charge the device using the provided Type-C cable and a 5V/2A USB power adapter (not included). The LCD will indicate charging progress.
2. Ensure the device shows a charge level of at least 50% before attempting a jump-start.

Maintenance Tip: If the device will not be used for an extended period, recharge it fully at least once every 3 months to maintain battery health.

3.2 Jump-Starting a Vehicle



Figure 6: Jump-start procedure diagram.

1. **Prepare the Vehicle:** Ensure the vehicle is in Park (automatic) or Neutral (manual) with the parking brake engaged. Turn the ignition OFF and all electronics (lights, radio) OFF.
2. **Connect the Clamps:**
 - Connect the RED clamp to the POSITIVE (+) terminal of the vehicle's dead battery.

- Connect the BLACK clamp to a clean, unpainted metal part of the vehicle's frame or engine block (a solid ground), away from the battery and fuel lines.
DO NOT connect to the negative (-) battery terminal.

3. Start the Vehicle:

- Ensure the jump starter is powered ON.
- Wait a few seconds for the device to recognize the connection.
- Get into the vehicle and start the engine normally. It should start within a few seconds.

4. Disconnect the Clamps: Once the engine is running smoothly:

- Disconnect the BLACK (negative) clamp from the vehicle's ground.
- Disconnect the RED (positive) clamp from the battery terminal.

5. Allow the vehicle's alternator to recharge its own battery by running the engine for at least 20 minutes.

3.3 Using the Power Bank Function

1. Use a standard USB cable (not included) to connect your device (phone, tablet, etc.) to one of the USB output ports on the jump starter.
2. The jump starter will automatically begin supplying power. The LCD display will show the remaining internal battery capacity.

3.4 Using the Flashlight

1. Press the main function button to turn on the LED light.
2. Subsequent presses will cycle through the available modes: Flashlight (steady) -> Strobe (flashing) -> SOS (distress signal) -> Off.
3. Press and hold the button to turn the light off.

4. Specifications

Specification	Detail
Model	PD-J330
Size Name / Peak Current	6000A
Battery Type	Lithium Ion
Jump Start Voltage	12V DC
Engine Compatibility	Up to 7.5L Petrol / 6.0L Diesel
USB Output	5V/2A
Input for Recharging	Type-C, 5V/2A
Operating Temperature	-20°C to 60°C
Protection Rating	IP65 (Water and Dust Resistant)
Item Weight	840 g

5. Troubleshooting

E1: Machine low-temperature charging protection prompt code. It is recommended to unplug the charger and wait for the machine temperature protection to be released before continuing to use;

E2: Machine high-temperature charging protection prompt code It is recommended to unplug the charger and wait for the machine temperature protection to be released before continuing to use;

E3: Machine high-temperature discharge protection prompt code it is recommended to unplug the electrical equipment and wait for the machine temperature protection.

E7: Machine cylinder over temperature protection prompt code. At this time, it is recommended not to immediately contact the machine and air pipes to prevent high-temperature burns Wait for the machine to stand for 10-15 minutes before continuing the operation.

6. Safety Information

WARNING: Failure to follow instructions can cause battery explosion, fire, or personal injury.

1. If the product is not used for a long time, it is recommended to fully charge it at least once every three months.

2. During use or charging, if the product generates slight heat, it is normal and not a malfunction.
3. If the vehicle needs to be attempted to start multiple times, there should be a minimum interval of 60 seconds between each start attempt. If the vehicle cannot start after 3-5 attempts, it is recommended to further check for other faults in the vehicle.
4. Do not touch both ends of the battery clamps together during operation, as it may pose a safety risk. 5
5. Do not reverse the positive and negative terminals of the battery clamps with the vehicle's positive and negative terminals, as it may pose a safety risk.
6. Before setting the preset air pressure value, please ensure that the pressure unit selection is correct, as mixing units may lead to overinflation and pose a safety risk.
7. The air pump inflation function works continuously for 10 minutes, with an interval of more than 5 minutes, and then continue to use after the machine temperature is reduced.
8. After starting the vehicle, do not charge the product immediately. Leave it for more than 30 minutes until the battery cools down.
9. Do not disassemble or modify the device to avoid damage or safety risks and voiding the warranty.
10. Keep the product out of reach of children and store it properly.
11. To ensure optimal charging performance, use a power charger (5V/2A) manufactured by a reputable manufacturer to charge the product.
12. Please do not mistake the product for second-hand. In order to protect the LCD screen from being scratched, we put a protective film on it, and you can tear off the protective film along with the green sticker below.
13. It is recommended to use this product in a safe environment and avoid the following environments to mitigate safety risks:
 - Damp areas and places prone to water splashes.
 - Places with high temperatures, open flames, corrosive substances, or chemical gas hazards.
 - Places with mud or sand.
 - Places prone to falling.
 - Places where flammable or explosive materials are stored.
 - Places with severe vibrations or impacts.

7. What's in the Box

- EigoTrav Car Jump Starter (with integrated air compressor*) x1

- Smart Clamp Cables (attached)
- Type-C Charging Cable (typically included, assumed from context)
- User Manual (this document)

*Note: The product title and "What's in the box" list mention an air compressor, but detailed specifications and features in the provided content do not describe its use. Refer to specific packaging for compressor components and instructions if included.

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.