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briidea LD-083

Briidea 110V to 220V Quick Connectors Instruction Manual

Model: LD-083

1. Introduction

Thank you for choosing the Briidea 110V to 220V Quick Connectors. This device is designed to efficiently convert two standard 110/120V AC circuits into a single 220/240V AC output, providing a convenient solution for powering 240V devices or charging electric vehicles. Please read this manual thoroughly before installation and operation to ensure safe and optimal performance.

2. Safety Information

WARNING: Electrical shock hazard. Always follow safety precautions when working with electricity.

- Ensure all power sources are disconnected before installation or maintenance.
- This product is designed for indoor use or in a protected outdoor environment.
- Do not operate the device if it appears damaged.
- The Briidea Quick Connectors are equipped with external circuit breakers and utilize UL-certified components for enhanced safety.
- A UL-certified GFCI tester is included to verify outlet safety. Always test your outlets before connecting the device.



Image: Safety features including external circuit breakers and UL-certified components.



Image: Included UL-certified GFCI outlet circuit tester for verifying electrical safety.

3. Package Contents

Verify that all items are present in your package:

- Briidea 110V to 220V Quick Connector Unit
- UL-certified GFCI Outlet Circuit Tester
- Mounting Screws and Wall Anchors (quantity may vary)



Image: The Briidea Quick Connector unit, GFCI tester, and mounting accessories.

4. Specifications

Feature	Specification
Brand	briidea
Model Number	LD-083
Input Voltage	Two 110/120V AC circuits
Output Voltage	220-240V AC
Maximum Current	16A
Frequency	60Hz
Output Outlet Type	Type B (NEMA 6-15R)
Operating Temperature	Up to 122°F (50°C) ambient
Dimensions (Approx.)	10.6 in (H) x 5.9 in (W) x 3.2 in (D)



Image: Physical dimensions of the Briidea Quick Connector unit.

5. Setup Instructions

1. **Identify Power Sources:** Locate two separate 110/120V AC circuits. For proper 220/240V operation, these circuits must be on different phases of your electrical panel. Consult a qualified electrician if unsure.
2. **Test Outlets:** Use the included GFCI outlet circuit tester to verify that both 110/120V outlets are correctly wired and functioning safely.
3. **Mount the Unit:** Choose a suitable location for the Quick Connector unit. Use the provided mounting screws and anchors to securely attach the unit to a wall or sturdy surface.
4. **Connect Input Plugs:** Plug the two input cables from the Quick Connector into the identified 110/120V AC outlets. Ensure a secure connection.
5. **Verify Connection:** Observe the indicator lights on the Quick Connector. The "120VAC" lights should illuminate when connected to power.

6. **Connect 240V Device:** Once the input connections are verified, plug your 220/240V device or EV charger into the 240VAC output outlet on the Quick Connector.



Image: Connection diagram illustrating how to combine two 110/120V circuits for 220/240V output.

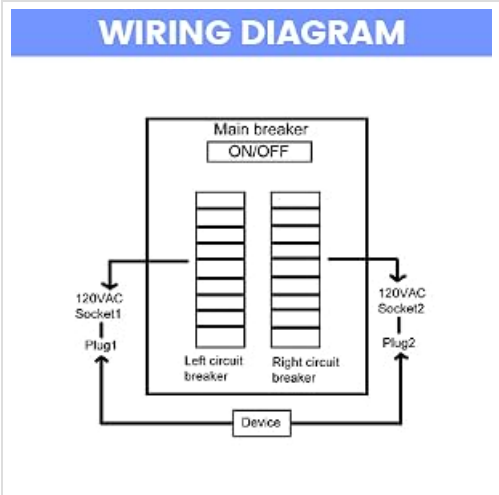


Image: Simplified wiring diagram for connecting the Quick Connector to your electrical panel.

6. Operating Instructions

6.1 Indicator Lights

The Briidea Quick Connector features three indicator lights to provide clear status feedback:

- **Left 120VAC Light:** Illuminates when the left 110/120V input circuit is active.
- **Right 120VAC Light:** Illuminates when the right 110/120V input circuit is active.
- **240VAC Light:** Illuminates when both 110/120V input circuits are active and a stable 220/240V output is available. The product is ready for use when all three lights are fully on.



Image: Detailed view of the indicator lights on the Quick Connector.

6.2 Charging Efficiency

Utilizing the 220/240V output significantly increases charging efficiency for compatible devices, such as Level 2 EV chargers.

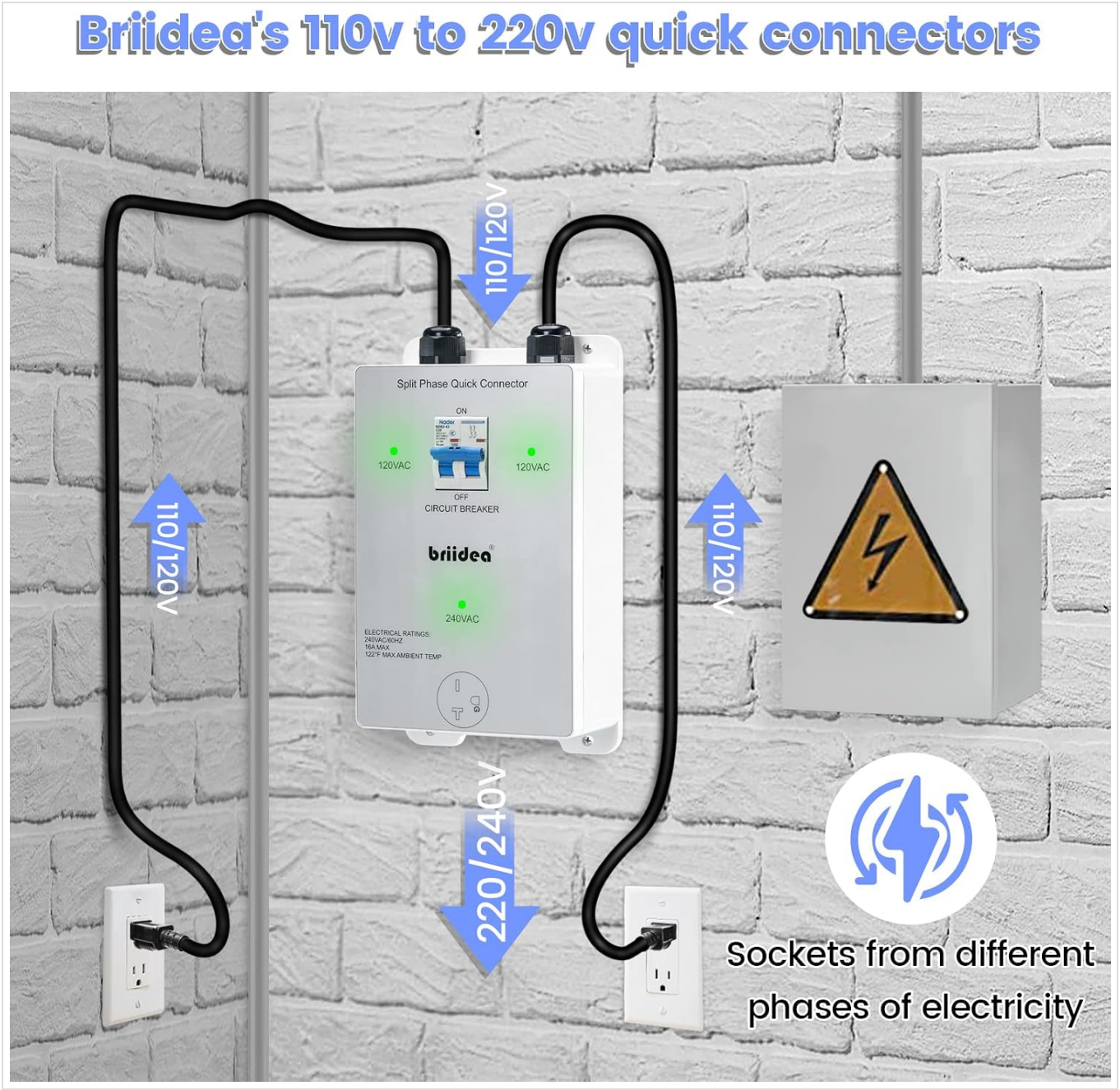


Image: Comparison of charging efficiency between 120V and 240V power sources.



Image: The Quick Connector in use, charging an electric vehicle.

7. Maintenance

The Briidea Quick Connector is designed for minimal maintenance.

- Periodically inspect the unit and all cables for any signs of damage, wear, or loose connections.
- Keep the unit clean and free from dust and debris. Use a dry, soft cloth for cleaning.
- Do not attempt to open or repair the unit yourself. Refer all servicing to qualified personnel.

8. Troubleshooting

Problem	Possible Cause	Solution

No indicator lights are on.	No power to input outlets, or unit is not plugged in.	Ensure both 110/120V input plugs are securely connected to live outlets. Check circuit breakers in your electrical panel.
Only one 120VAC light is on.	Only one 110/120V input circuit is active or connected.	Verify the second 110/120V input plug is connected to a live outlet. Ensure both circuits are from different phases.
240VAC light is not on, but both 120VAC lights are.	Issue with internal circuit or phase mismatch.	Ensure the two 110/120V circuits are indeed on different phases. If the problem persists, contact customer support.
Device connected to 240V output is not receiving power.	240VAC light is not on, or device itself has an issue.	Check that all three indicator lights on the Quick Connector are fully illuminated. Test the 240V device separately if possible.

9. Warranty and Support

For warranty information or technical support, please contact Briidea customer service through the retailer where the product was purchased or visit the official Briidea website.

Briidea Official Store: Visit the Briidea Store on Amazon

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