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› EVDANCE Level 1&2 EV Charger User Manual

EVDANCE EV-ACS1601U

EVDANCE Level 1&2 Portable EV Charger User Manual

Model: EV-ACS1601U

1. PRODUCT OVERVIEW

The EVDANCE Level 1&2 Portable EV Charger is designed to provide flexible and efficient charging solutions for your electric vehicle. This charger is compatible with J1772 electric vehicles and plug-in hybrid vehicles (North American Standard). It offers dual charging capabilities, supporting both Level 1 (120V) and Level 2 (240V) charging, making it a versatile tool for home and on-the-go use.



Figure 1: EVDANCE Level 1&2 Portable EV Charger with its components.

Key Features:

- **Flex Level 1 & 2 Charging:** Compatible with J1772 electric vehicles and plug-in hybrid vehicles.
- **Dual Plug Options:** Includes NEMA 6-20 plug for 16A 240V charging (3.68kW, 10-12 mi/h) and a NEMA 6-20 to 5-15 plug adapter for 12A 120V charging (1.44kW, 2-5 mi/h).
- **Extended Cable Length:** A 25ft cable provides flexibility for charging in various locations.
- **Indication Displays:** LED display provides real-time charging status and error indications.
- **Durable and Safe:** Constructed with high-grade rugged materials, FCC and CE certified, featuring IP66 protection and UL 94 V-0 fire rating.
- **Comprehensive Safety Protections:** Intelligent chip design monitors charging status and provides undervoltage, overvoltage, overheat, leakage, lightning, overcharge, and overcurrent protection.

- **Portable Design:** Comes with a carrying bag for easy transport.

2. SAFETY INFORMATION

Please read all safety instructions carefully before using the EVDANCE EV Charger. Failure to follow these instructions may result in electric shock, fire, or serious injury.

General Safety Precautions:

- Do not use the charger if it is damaged, frayed, or has exposed wiring.
- Ensure the charging port on your vehicle is clean and dry before connecting the charger.
- Do not immerse the charger or its components in water. While the unit has IP66 water protection, it is not designed for submersion.
- Avoid using the EV charger in severe rain, snow, or other inclement weather conditions to prevent potential damage or hazards.
- Keep children and pets away from the charging area.
- Always unplug the charger from the power outlet before attempting any cleaning or maintenance.
- Ensure the power outlet used is properly grounded and rated for the charger's specifications.

Integrated Safety Protections:

The EVDANCE EV Charger is equipped with an intelligent chip and multiple safety features to ensure a secure charging experience:

- **Undervoltage Protection:** Prevents damage from insufficient voltage.
- **Overvoltage Protection:** Safeguards against excessive voltage.
- **Overheat Protection:** Monitors internal temperature to prevent overheating.
- **Leakage Protection:** Detects and prevents electrical leakage.
- **Lightning Protection:** Protects against power surges from lightning.
- **Overcharge Protection:** Prevents battery overcharging.
- **Overcurrent Protection:** Guards against excessive current flow.
- **Grounding Protection:** Ensures proper electrical grounding.
- **IP66 Water Protection Level:** Provides protection against powerful water jets.
- **UL 94 V-0 Fire Rating:** Indicates high flame retardancy of materials.

10 Intelligent Safety Protection



IPX6
waterproof



FCC
certification



Grounding
Protection



Lightning
Protection



Overcharge
Protection



Undervoltage
Protection



Overvoltage
Protection



Overheat
Protection



Leakage
Protection



Overcurrent
Protection



Figure 2: Overview of the charger's intelligent safety protection features.



Figure 3: The charger's IPX6 water protection ensures durability in various weather conditions.

3. PACKAGE CONTENTS

Please verify that all items are present in your package:

- 1x Level 1 12A (NEMA 5-15) / Level 2 16A (NEMA 6-20) Portable EV Charger
- 1x NEMA 6-20P to NEMA 5-15P Adapter
- 1x Carrying Bag
- 2x Velcro Straps
- 1x User Manual (this document)

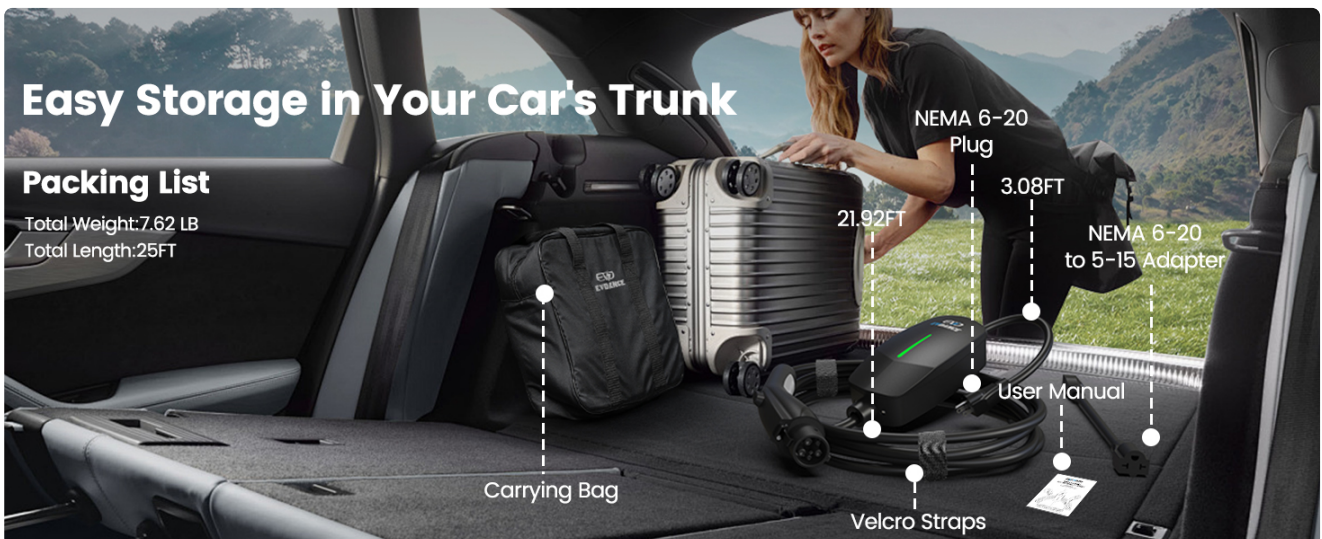


Figure 4: All included components for the EVDANCE EV Charger.

4. SETUP AND INSTALLATION

Follow these steps to set up your EVDANCE EV Charger:

4.1. Check Your Outlet Type

The charger is compatible with standard 120V NEMA 5-15/5-20 outlets and 240V NEMA 6-20 outlets. It is **not compatible** with NEMA 6-15, 10-30, 14-30, 14-50, or 6-50 outlets without a separate adapter (not included).

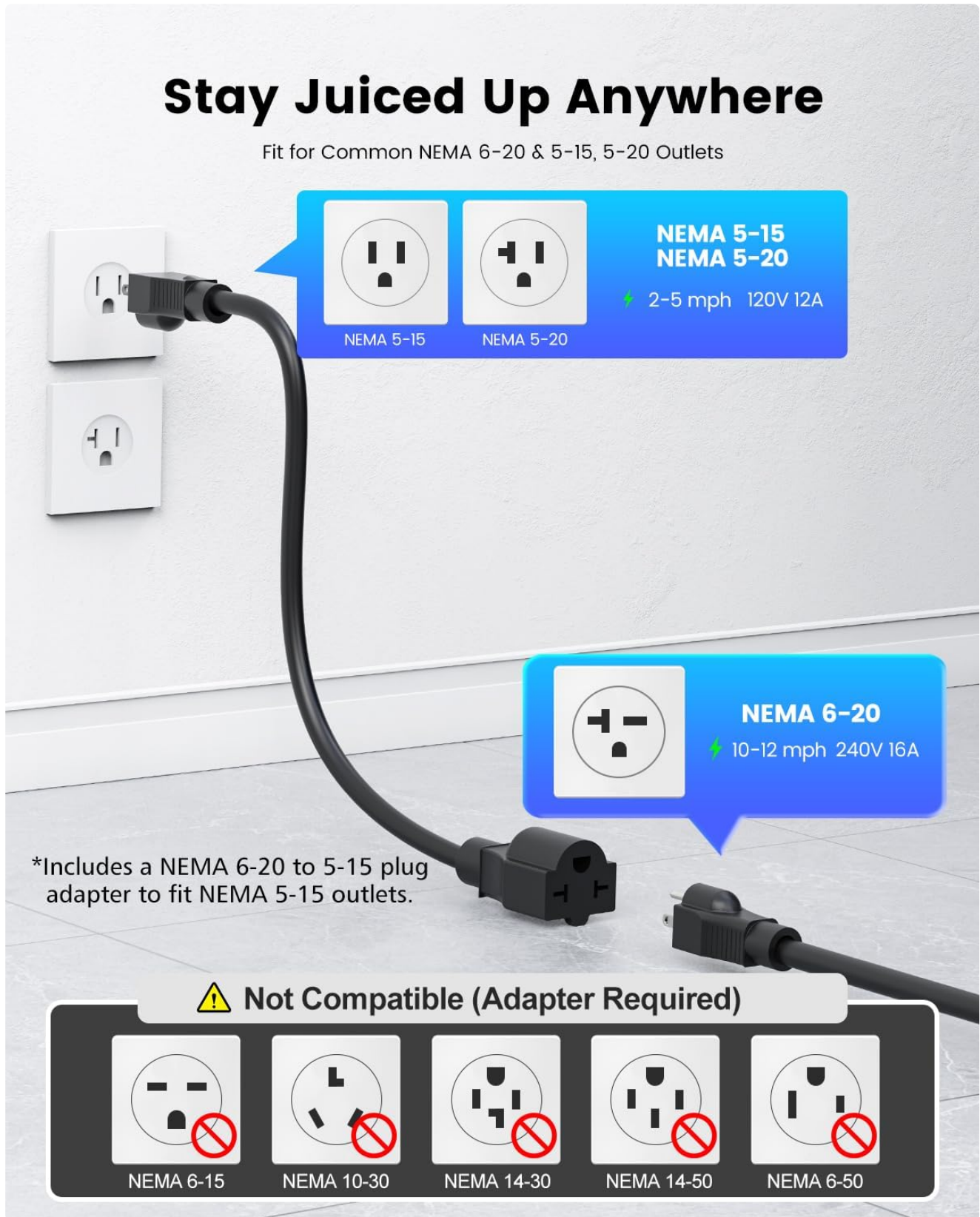


Figure 5: Compatible and incompatible outlet types for the charger.

4.2. Power Up in 3 Simple Steps

1. Connect to Power Outlet:

- For NEMA 5-15 outlets: Use the included NEMA 6-20 to 5-15 plug adapter, then insert it into the outlet.
- For NEMA 6-20 outlets: Simply insert the charger's NEMA 6-20 plug directly into the outlet.

2. **Connect to Vehicle:** Plug the charger connector (J1772) into your electric vehicle's charging port.

3. **Verify Connection:** The indicator light on the charger will flash green to indicate that charging has started.

Note: The EVDANCE charger can adjust the charging current via the car end/car app settings, up to 16A for 6-20P and 12A for 5-15P, and supports delayed charging.



Figure 6: Step-by-step guide for connecting and starting charging.

5. OPERATING INSTRUCTIONS

5.1. Understanding LED Indicators

The LED display on the control box provides real-time status updates:

Indicator State	Meaning
Green (Solid)	Fully Charged
Green (Flashing)	Charging in Progress
Blue (Solid)	EV Connected / Standing By
Red (Flashing)	General Fault / Error
Red (Solid)	Ground Fault

LED Light Display Charging Status



	Charging
	Fully Charged
	EV Connected
	Standing by
	General fault
	Ground Fault

Figure 7: Visual guide to LED indicator meanings.

5.2. Charging Process

Once connected to a power source and your vehicle, the charger will automatically begin charging. The LED indicator will show the current charging status. When charging is complete, the LED will turn solid green.

To stop charging, simply disconnect the charger from your vehicle's charging port first, then unplug it from the power outlet.

6. COMPATIBILITY

The EVDANCE EV Charger is designed for broad compatibility with electric vehicles using the J1772 charging standard.

6.1. Compatible EV Models:

This charger works with most major electric vehicles, including but not limited to:

- Ford
- Chevrolet
- Hyundai
- Audi
- Nissan Ariya
- Rivian R1S
- Kia
- And many others that use the J1772 standard.

6.2. Important Compatibility Notes:

- **Tesla Models:** Tesla vehicles require a J1772 to Tesla Adapter (sold separately) to use this charger.
- **Incompatible Models:** This charger is not compatible with Mini Cooper Electric Hardtop, Toyota Prius Prime/Z4X/RAV4 Prime, or Porsche Taycan Base/4S/Turbo/Turbo S.

Charge Even On-the-Go Portable Bag



Figure 8: Overview of compatible and incompatible EV brands.

Stay Juiced Up Anywhere

Fit for Common NEMA 6-20 & 5-15, 5-20 Outlets



*Includes a NEMA 6-20 to 5-15 plug adapter to fit NEMA 5-15, 5-20 outlets.

Figure 9: Tesla owners require a J1772 to Tesla adapter (not included).

7. MAINTENANCE AND CARE

Proper maintenance will extend the life and ensure the safe operation of your EVDANCE EV Charger.

7.1. Cleaning:

- Ensure the charger is unplugged from both the power outlet and the vehicle before cleaning.
- Wipe the exterior of the charger and cable with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Ensure all components are completely dry before reconnecting to power.

7.2. Storage:

- When not in use, store the charger in a cool, dry place, away from direct sunlight and extreme temperatures.
- Use the provided carrying bag and Velcro straps to keep the cable neatly coiled and protected.
- Avoid kinking or bending the cable sharply, as this can damage the internal wiring.

HIGH QUALITY CABLE

Flexible and wear-resistant



Layer stranding
technology



Wear resistant



Figure 10: The charger features a high-quality, durable cable designed for longevity.



Figure 11: The included carrying bag allows for easy and convenient storage and transport.

8. TROUBLESHOOTING

If you encounter issues with your EVDANCE EV Charger, refer to the LED indicators (Section 5.1) for initial diagnosis. Below are common issues and their potential solutions:

Problem	LED Indicator	Possible Cause	Solution
Charger not starting	Off or Blue (Solid)	No power to charger; Vehicle not connected; Vehicle charging port issue.	Check power outlet; Ensure charger is fully plugged into outlet; Ensure charger is fully plugged into vehicle; Check vehicle's charging port for debris.
Charging stops unexpectedly	Red (Flashing)	Overheat; Overcurrent; Voltage fluctuation; Internal fault.	Unplug and allow charger to cool; Check power source for stability; Try a different outlet; If problem persists, contact support.
Ground Fault Indication	Red (Solid)	Improper grounding; Electrical leakage.	Do not use; Consult a qualified electrician to inspect the outlet and wiring; Contact support.
Slow charging speed	Green (Flashing)	Using 120V outlet instead of 240V; Vehicle settings limiting current.	Ensure you are using a 240V NEMA 6-20 outlet for faster charging; Check your vehicle's charging settings.

If the issue persists after attempting these solutions, please contact EVDANCE customer support for further assistance.

9. SPECIFICATIONS

Feature	Detail
Brand	EVDANCE
Model	1x Level 1 12A(NEMA 5-15) /Level 2 16A(NEMA 6-20) Portable EV Charger
Item Model Number	EV-ACS1601U
Manufacturer Part Number	EV-AC1601U
Amperage	16 Amps (Max)
Wattage	3.84 KW (Max)
Input Voltage	110V-240V
Cable Length	25 feet
Connector Type	J1772
Plug Types	NEMA 6-20, NEMA 5-15 (with adapter)
Item Weight	7 pounds
Product Dimensions	8 x 3.5 x 25 inches (Control Box)
Special Features	Fast Charging, Multiple Safety Protections
Certifications	FCC, CE
Protection Level	IP66 (Water Protection), UL 94 V-0 (Fire Rating)

10. WARRANTY AND SUPPORT

Warranty Information:

This EVDANCE EV Charger comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters.

Customer Support:

If you have any questions, concerns, or require technical assistance, please do not hesitate to contact EVDANCE customer support. We are dedicated to ensuring your satisfaction and will work to resolve any issues you may encounter.

For support, please refer to the contact information provided on the product packaging or the official EVDANCE website. You can also reach out through the platform where you purchased the product.

