



AlphaTM

Level 2 Multimedia Home EV Charging Station



User Manual and Installation Guide

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Introduction

Alpha Multimedia EV Charging Station

Alpha is the the first Interactive Multimedia EV charger in this solar system. The complete solution for your Smart Home.

Alpha features a 7-inch touch screen display and full OCPP 1.6 compliance for Smart Charging and more. The 25ft (7.62M) output cable is compatible with all J1772 Electric Vehicles. Alpha provides up to 10 KW of power to your vehicle and can be adjusted for 16A-40A Maximum Current Output.

This User Guide contains instructions and warnings that must be followed when installing and using the Alpha Electric Vehicle Supply Equipment (EVSE). Before installing or using the EVSE, read this document including any **WARNING** and **CAUTION** markers.

This document provides instructions for the charging station and should not be used for any other product. Consult with a licensed contractor, licensed electrician, or trained installation expert to ensure compliance with local building codes and safety standards.





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Product Specifications

Model Number: ALPHA

EVSE Level: Level 2

Maximum Output Rating: 40Amps

Alternate Adjustable Output Ratings: 16A-40A

Charge Cable Length: 25ft (7.62m)

Electrical Circuit / Input Power Requirements: Circuit Requirement: Dedicated Single Phase 208-240VAC, 50/60 Hz. Branch Breaker: Double pole. Circuit Conductors: Line 1, Line 2, Earth / Ground.

Input Power Connection: Standard: Plug-in NEMA 6-50 or NEMA 14-50 Plug. Plug is removable for Hardwire Connection.

Installation Rating: NEMA 3, Indoor Rated.

Operational Ratings: Temperature: -22°F to 122°F (-30°C to 50°C); Humidity: 95% RH noncondensing

Mounting: Wall Mounted

Overall Dimensions: EVSE: 10.25 x 6.25 x 3.75 inches (26.0 x 16.0 x 9.3 cm)

Display and Indicators: 7-inch touch screen interactive display

Important Safety Instructions

- Read all the instructions before using this product.
- Before installation or use of this product consult with a licensed electrician to ensure compliance with local building codes and safety standards.
- Children should not use this device.
- Do not put fingers into the EV connector.
Do not touch live electrical parts.
- Do not use this product if the flexible power cord or EV cable is ragged, has broken insulation, or any other signs of damage.
- Do not use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage.
- Disconnect the power supply to before installing, adjusting, or repairing the charging station.



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Repair and Maintenance Clause

- The Alpha EVSE does not require regular maintenance. Inspect the unit periodically to ensure that all parts remain in good working order and no damage exists.
- Do not attempt to disassemble, repair, tamper with, or modify any components inside the device. Contact United Chargers for any repairs.

FCC Declaration of Conformity

This charging station complies with part 15 of the FCC Rules. Changes or modifications the charging station not expressly approved by the manufacturer could void FCC compliance. Operation is subject to the following two conditions:

This charging station may not cause harmful interference. This device must accept any interference received, including interference that may cause undesired operation.



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Installation

Service Wiring Requirements

Prior to mounting, consult a certified electrician about an electrical source that can support the following:

The Circuit must be a DEDICATED CIRCUIT 208-240 VAC, 50-60 Hz, Single Phase. Requirements govern that only 80% of the circuit rated load may be utilized. Use the following Maximum Amperage Settings depending on the circuit breaker rating:

Circuit Rating	Maximum Charging Station Output
50A	40A (9.6 kW)
40A	32A (7.68 kW)
30A	24A (5.76 kW)
20A	16A (3.84 kW)

- A Double Pole Circuit Breaker of the circuit rating must be used.
- The Charging Unit has a built in GFCI protection; do not provide any additional GFCI protection upstream of the charging unit.
- The Charging Stations can connect a Standard NEMA 6-50 or 14-50 Receptacle, or the unit can be hardwired.
- A cable with a dedicated grounding conductor connected to the equipment ground terminal block must be used.

CAUTION: The service wiring in this section are specific to North America only. Before installing the Charging Station, identify the type of utility service connection onsite. If unsure about the type of connection available at the service panel, contact your utility service provider.



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Install Charging Station

Prior to mounting, determine the location of an acceptable mounting support:

- The charging station must be anchored into a mounting support such as a 2" x 4" stud or a solid concrete wall. **DO NOT** mount this unit directly to a stucco/drywall/wall board.
- Mount the unit between 24 inches (0.6 m) and 48 inches (1.2 m) from the ground. The NEMA outlet should be located no less than 20~26" from the ground or as defined by applicable, local electrical safety codes and standards.

Mounting Screw Recommendations:

- For finished walls supported by wood studs, use #14 or M6 tapping screws. (Included).
- For masonry walls, use M6 mechanical screws. (Commercially available)

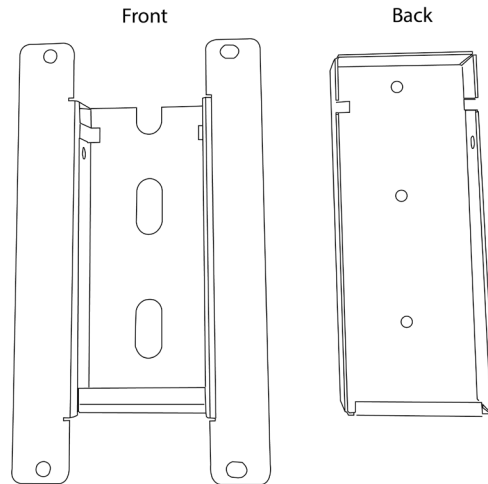
Parts and Tools required for installation:

Part	Size	Source
Mounting Bracket	255 x148 x 36 mm	Included with product
Robertson-Head Screw (x2)	#14	Included with product
Socket cap screw (x4)	5/16"	Included with product
Side Bracket	400x300x200	Included with product
Side Cover Screws	40mm	Included with product
Allen Key	3/16"	Commercially Available
Robertson Head Screwdriver	#14	Commercially Available

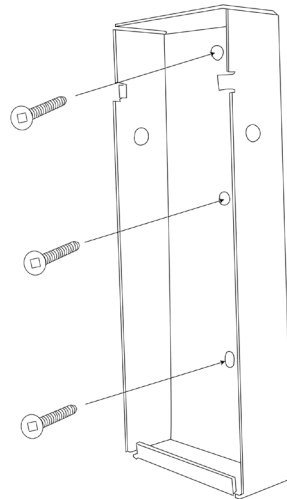


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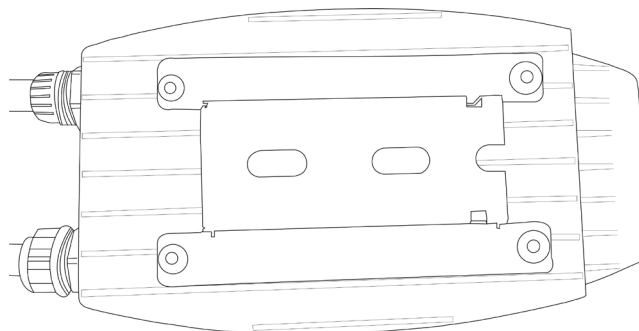
1. Separate the front and back pieces of the mounting bracket by pushing down on the notch.



2. Secure the back piece of the mounting bracket to the wall or other suitable structure using the Robertson-head screws.



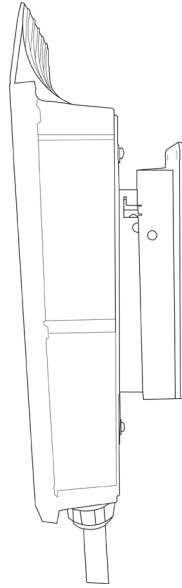
3. Attach the front piece of the mounting bracket to the back of the charging station using the Socket-cap screws and washers. Ensure the top of the mounting bracket is matched with the top of the charging station.



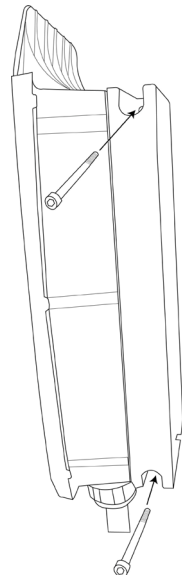


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4. Mount the charger on the wall by securing the front piece of the mounting bracket to the back piece. Align the notches and press down to secure the charger.



5. Position the Side Cover over the mounting bracket. Use the Side Cover screws to secure the two pieces together.



6. Plug in the power cord to the NEMA 14-50 Wall Outlet/Receptacle.



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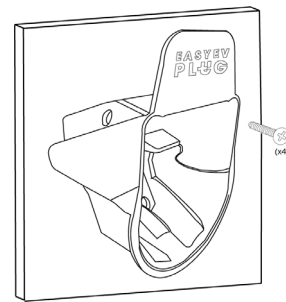
Install EasyEVPlug

The EasyEVPlug™ Holster or Tesla EasyEVPlug™ Holster is the new innovative method to protect your plug and manage your cord. It has the following features:

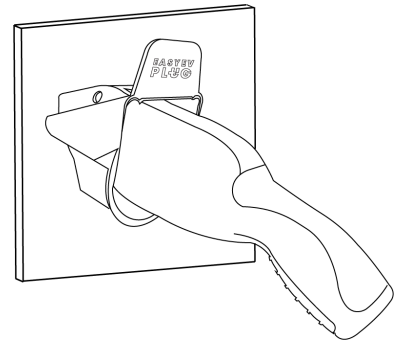
- No need to aim – flawless plug even in the dark.
- Your EV holster will always be in a convenient location.
- Saves space – special angle for less wall clearance.
- Integrated cable management – holds up to 25 feet of cable.

The EasyEvPlug holster can be installed at any location near the charging station.

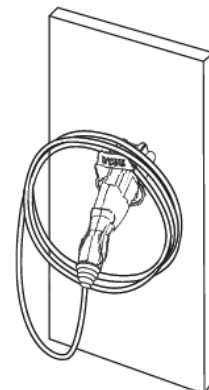
1. Hold back of holster against the mounting surface. Fasten Phillips head screws through back holes. Use anchors if attaching directly to drywall.



2. Insert charging connector into holster.



3. Wrap cable on top of EasyEvPlug.





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Optional Hardwire Connection

CAUTION: Do Not attempt to hardwire the Alpha unless you are qualified to do so. If you are not qualified, contact a licensed electrician.

1. Choose the appropriate conduit in accordance with all applicable, local electrical safety codes and standards.
2. Using the appropriate tool, clamp the wire terminal to the copper wire. For non-insulated terminals, use heat shrink tube to cover the non-insulated portion of the terminal.
3. Remove the front cover by removing the 4 screws at each corner of the charging station.
4. With the front cover placed to the side, use Philips screwdriver to release terminal screws of the 14-50 Plug cable. Loosen the Strain Relief Fitting for the or 14-50 Plug and Remove the Plug. Remove the Strain Relief connector.
5. Insert the wire end passing through the conduit and insert them into the input wiring hole. (Use Red wire for L1, Black wire for L2, Green wire for G).
6. Attach the copper wire on the corresponding terminal block. Use the following wire and torque force when connecting to input terminal block:
 - 90C, copper wire
 - 13.88 lb-in (16 kgf-cm)



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Charger Set Up

Add User

1. Select the **User** Icon from the main menu.
2. Select Add User from the User Screen.
3. Insert a Username. Press **Next**.
4. Insert a Password. Press **Next**.
5. Enter your Full Name. Press **Next**.
6. Enter your Email. Press Next.
7. Enter your phone number. Press **Next**.

Connect to Wi-Fi

1. Select the Settings Icon Settings Icon from the main menu
2. Select the Wi-Fi Option from the settings menu
3. Select Connect to Wi-Fi
4. Open the Wi-Fi settings on your smart phone
5. Select the network "UnitedChargersAlpha".
6. Enter password "ucalpha1".
7. A web-page will load. Go to Menu > "Configure new AP"
8. Select your local Wi-Fi.
9. Enter network password.
10. Verify that you are connected. Disconnect your smartphone from "UnitedChargersAlpha" and re-connect to your local network.
11. Once setup is complete press Next.

Add Ethernet Connection

Feature to be implemented at a later date.



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Set PIN Code

1. Select the Settings Icon Settings Icon from the main menu
2. Select Delete Users and Reset from the Settings screen.
3. Select Change PIN from the Delete Users and Reset Screen.
4. Enter a new PIN code.
5. Select Set.
6. Select the Home Button to back to the main menu. Your settings will be saved.

Set Date and Time

1. Select the Date | Time icon from the main menu.
2. Set the hour and minute to the appropriate value. Select AM or PM.
3. Set the Date, Month, Year, and Weekday to the appropriate values.
4. Select the Set button.
5. Select the Home button to go back to the main menu. Your settings will be saved.

Set Maximum Amperage

1. Select the Amperage Icon from the home screen.
2. Set the Max Amperage using the + and - buttons. The Maximum Amperage will be determined by the Circuit rating of your breaker:

Circuit Rating	Maximum Charging Station Output
50A	40A
40A	32A
30A	24A
20A	16A

3. Select the Set Button
4. Press the Home button to go back to the home screen. Your settings will be saved.



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Set Charging Schedule

Set WeekDay Schedule:

1. Select the Schedule icon from the home screen.
2. Select the Weekdays icon.
3. Use the Arrows to adjust the hour and minute of the Start Time.
4. Select the Enable option.
5. Press the Set button. Note: Press "Set" in both weekdays and weekend separately to set both schedules.

Set Weekend Schedule:

1. Select the Weekend icon.
2. Use the Arrows to adjust the hour and minute of the Start Time.
3. Select the Enable option.
4. Press the Set button. Note: Press "Set" in both weekdays and weekend separately to set both schedules.
5. Press the Home button to go back to the main screen. Your settings will be saved.



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Charger Use

USB Firmware Update

Warning: To update the Alpha via USB you will need a blank USB device. Ensure there are no saved files on your device before proceeding.

1. Save the following files to your USB drive:
 - cpuvvvv.bfw
 - fwupd.dfw
 - gfxvvvv.bfwv is the version number
2. Select the Settings icon from the main menu.
3. Select USB Firmware Update from the settings screen.
4. Insert USB drive into Alpha's USB port. Alpha will automatically display the Current Firmware Version and the Update Firmware and validate the file.
5. Once validation is complete select the Start Update button.
6. Wait for the update to complete. Do not unplug Alpha during while updating. When the update is complete Alpha will reboot.
7. Power cycle the Alpha by unplugging and plugging back in.
8. Remove the USB drive.

Meter

1. Select the Energy Meter icon from the main menu.
2. The Energy Meter screen will display the Power Consumption statistics from the last charging session. If a charging session is in progress it will display real-time Power Consumption statistics.

Reports

1. Select the Report Icon from the main screen.
2. Enter the number of last sessions using the + and - buttons.
3. Select the Set Button .
4. The report screen will display the total session time and Total KWh used from that session.



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General Product Care and Use Information

Product Care

The exterior of the charging station is designed for indoor use (NEMA 3 Indoor Rated). Ensure that the Alpha is mounted in a sheltered location and not exposed to rain, snow, or temperatures below -30C(-22F).

To ensure proper maintenance of the charging station, follow these guidelines:

- Periodic cleaning may be required, depending on conditions. To avoid damaging the finish of the products, only use an automotive grade soft cleaning cloth with soap and water to remove accumulated dirt and dust. Do not use cleaning solvents to clean any of the product components.
- Directing a stream of water at the unit is not recommended.
- Ensure the charging connector is put back in the holster after charging to avoid damage.
- Ensure the power cable is stored on the charging station after use to avoid damage.
- If the power cable or the charging connector is damaged, turn off the charging station supply circuit breaker, do not use the charging station, and Contact United Chargers Customer Support for replacement parts.
- When moving or lifting the unit, always grasp and carry by the charging station body. Never attempt to lift, move, or carry the unit by any of the electrical cables. Improper handling may cause damage to the unit.



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Warranty

Warranty Terms and Conditions

Alpha comes with a 5-year or 5MWH distributed power full replacement warranty. This warranty is extended by United Chargers Inc. to original purchasers of Alpha EV Charging Stations for residential use only.

United Chargers warrants that this product is free from defects in materials and workmanship under normal non-commercial use for the warranty specified 5-year period or 5MWH use from the date of purchase - whichever comes first. No agent, employee, or representative of United Chargers has any authority to affirm, represent or warrant anything concerning Alpha™ EV Charging Stations, except for the affirmation and representation which is specifically included within this warranty.

This warranty will not apply if the product has been misused, abused, or altered. Warranty for the cable does not include normal tear and wear. Plugs that have been exposed to snow or water for a prolonged period of time are not covered by this warranty. The warranty will apply only if the product is defective. United Chargers assumes no liability for any dismantling, removal, installation, re-installation, or labor costs or any consequential damages associated with this warranty. United Chargers is not responsible or liable for any costs associated with faulty installations. United Chargers shall make the final decision, in fairness to all concerned, as to the legitimacy of any such claim on this warranty.

Upon discovery of any defective Alpha™, please contact our Customer Service Department for further instructions as to how to repair or replace the defective unit or submit a support ticket.

Check Warranty Info

To check the current warranty status of the charger:

1. Select the Settings Icon from the home screen
2. Select Warranty Info from the Settings screen.
3. The Warranty Screen will display the total Power Consumption (kWh) and date of first activation.

For customer service inquiries or technical support please contact our Customer Service Department or log into your account at alphaevcharger.com and submit support ticket.

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