

CLIPPERCREEK

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User Manual



Model AmazingE FAST



PLEASE NOTE

This user manual includes the latest information at the time of printing. ClipperCreek reserves the right to make changes to this product without further notice. Changes or modifications to this product by other than an authorized service facility may void the product warranty.

Contact Customer Service with questions. Refer to the Customer Support section located in this guide.



WARNING: This product can expose you to chemicals, including Carbon Black, which is known to the State of California to cause cancer. For more information go to: www.P65Warnings.ca.gov



AVERTISSEMENT: Ce produit peut vous exposer à des agents chimiques, y compris Noir Carbone, identifiés par l'État de Californie comme pouvant causer le cancer. Pour de plus amples informations, prière de consulter: www.P65Warnings.ca.gov



ADVERTENCIA: Este producto puede exponerte a químicos, incluso Negro Carbón, que se conocido por el Estado de California como causante de cáncer. Para más información visite: www.P65Warnings.ca.gov

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AmazingE FAST User Manual, Version 4, April 2022

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IMPORTANT SAFETY INSTRUCTIONS

Carefully read these instructions and the charging instructions in the vehicle owner's handbook before charging the electric vehicle.

The following symbols may be found in this manual or on labels affixed to the Electric Vehicle Supply Equipment (EVSE):

NOTE: *This means pay particular attention.* Notes contain helpful suggestions.

REMARQUE: *Cela signifie accorder une attention particulière.* Les remarques contiennent des suggestions utiles.

NOTA: *Esto significa que debe prestar especial atención.* Las notas contienen sugerencias útiles.



CAUTION: This symbol means be careful. There is potential to do something that may result in damage to the equipment.

ATTENTION: Ce symbole signifie être prudent. Vous êtes capable de faire quelque chose qui pourrait causer des dommages à l'équipement.

ATENCIÓN: Este símbolo significa tener cuidado. Usted es capaz de hacer algo que puede resultar en daños al equipo.



WARNING: This symbol means danger. This is a situation that could cause bodily injury. Before working on any electrical equipment, be aware of the hazards involved with electrical circuitry and standard practices for preventing accidents.

AVERTISSEMENT: Ce symbole signifie un danger. Vous êtes dans une situation qui pourrait causer des blessures corporelles. Avant de travailler sur un équipement électrique, être conscient des dangers présentés par les circuits électriques et les pratiques courantes de prévention des accidents.

ADVERTENCIA: Este símbolo significa peligro. Está en una situación que podría lesionarse. Antes de trabajar en cualquier equipo eléctrico, debe estar consciente de los

riesgos relacionados con los circuitos eléctricos y prácticas estándares de prevención de accidentes.

Instructions Pertaining to a Risk of Fire or Electric Shock

When using the AmazingE FAST, basic electrical safety precautions should be followed:

- Use this EVSE to charge electric vehicles equipped with an SAE J1772 charge port only. Consult the vehicle owner's manual to determine if the vehicle is equipped with the correct charge port.
- Make certain the EVSE SAE J1772 charge cable is positioned so it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
- This product contains no user serviceable parts. Consult the Customer Support section in this manual for service information. Do not attempt to repair or service the EVSE.
- Do not operate the EVSE if it or the SAE J1772 charge cable is physically open, cracked, frayed, or otherwise visibly damaged. Contact Customer Service immediately. Consult the Customer Support section in this manual for information on the Service Representative in the area.
- Not for use in commercial garages where a COMMERCIAL GARAGE is defined as a facility (or portion thereof) used for the repair of internal combustion vehicles in which the area may be classified due to flammable vapors being present (such as from gasoline.)
- Do not place fingers inside of the coupler end of the SAE J1772 charge cable.
- Do not allow children to operate this device. Adult supervision is mandatory when children are in proximity to an EVSE that is in use.
- 240V plugs are specifically designed for **occasional** relocation, such as moving from one home to another home.
- For personal safety, the circuit breaker MUST be turned off prior to plugging in AND/OR unplugging 240V appliances

(including this EVSE).

- A dedicated NEMA outlet (receptacle) is **highly recommended**. NEMA receptacles wear out over time particularly when repeated insertion and removal of NEMA plugs occur. Check the receptacle to be sure it is not worn. A worn receptacle can cause the plug connection to overheat and become a fire hazard. Do not use a plug that gets excessively hot. It is recommended that plug-in EVSE remain plugged in.
- Have an electrician verify all wiring to the receptacle is correct and in compliance with local code requirements before connecting the EVSE.
- **Do Not** use this EVSE with an extension cord or wall plug adapter. Plug this EVSE directly into the receptacle.
- Ensure that the EVSE is mounted to the wall or placed on a support so it does not hang from the receptacle. Receptacles are not designed to support the weight of the EVSE.

Instructions se Rapportant à un Risque d'Incendie ou de Choc Électrique

Lorsque l'utilisation de la AmazingE FAST, précautions fondamentale de sécurité électrique doivent être suivies:

- Utilisez cette station de recharge pour charger les véhicules électriques équipés d'un SAE J1772 port de recharge seulement. Consultez le manuel du propriétaire du véhicule afin de déterminer si le véhicule est équipé d'un correcte port de recharge.
- Assurez-vous que le SAE J1772 câble de recharge sur la station de recharge est positionné de telle sorte qu'il ne sera pas piétiné, accroché plus de, ou autrement endommagé ou de subir le stress.
- Ce produit ne contient aucune pièce réparable par l'utilisateur. Consultez la section Support à la Clientèle dans ce manuel pour obtenir des informations de service. N'essayez pas de réparer ou d'entretenir la station de recharge vous-même.
- Ne faites pas fonctionner votre station ou le câble de recharge

si elles sont physiquement ouverte, fissuré, effiloché, ou autrement visiblement endommagé. Contactez votre représentant du service pour service immédiatement. Consultez la section Support à la clientèle dans ce manuel pour obtenir des informations sur le représentant du service dans votre région.

- Ne pas utiliser dans les garages commerciaux où un GARAGE COMMERCIAL est défini comme une installation (ou une partie) utilisé pour la réparation de véhicules à combustion interne dans lequel la zone peut être classée en raison de vapeurs inflammables étant présents (Tels que de l'essence.)
- Ne posez pas les doigts à l'intérieur de l'extrémité du SAE J1772 coupleur du câble de recharge.
- Ne pas laisser les enfants utiliser cet appareil. Supervision d'un adulte est obligatoire lorsque des enfants sont à proximité d'une station de recharge qui est en cours d'utilisation.
- Les prises de 240V sont spécialement conçues pour les relocalisations **occasionnelles**, tel que le déménagement d'une maison à une autre.
- Pour des raisons de sécurité, le disjoncteur DOIT être désactivé avant de brancher ET/OU débrancher les appareils de 240V (dont cet EVSE).
- Une sortie (réceptacle) NEMA dédiée est **fortement recommandée**. Les réceptacles NEMA s'usent avec le temps, en particulier lorsque l'insertion et le retrait des prises NEMA sont répétés. Vérifiez le réceptacle pour vous assurer qu'elle n'est pas usée. Une réceptacle usée peut provoquer une surchauffe du connecteur de raccordement et constituer un risque d'incendie. Ne pas utiliser de prise qui deviendrait excessivement chaude. Il est recommandé que la prise de l'EVSE reste branchée.
- Faites vérifier par un électricien que tout le câblage de réceptacle soit correctement effectué et conforme aux exigences de la réglementation locale avant de raccorder l'EVSE.
- **Ne pas** utiliser cet EVSE avec une rallonge ou adaptateur

de prise murale. Branchez cet EVSE directement dans le réceptacle.

- S'assurer que l'EVSE est fixé au mur ou placé sur un support afin qu'il ne soit pas suspendu à l'installation électrique. Le réceptacle n'est pas conçu pour supporter le poids de l'EVSE.

Instrucciones Relacionadas a un Riesgo de Incendio o Descarga Eléctrica

Al utilizar la AmazingE FAST, se deben seguir las siguientes precauciones básicas de seguridad eléctrica:

- Utilice este EVSE para cargar vehículos eléctricos equipados sólo con un puerto de carga SAE J1772. Consulte el manual del propietario del vehículo para determinar si el vehículo está equipado con el puerto de carga correcto.
- Asegúrese de que el cable de carga del EVSE SAE J1772 esté colocado de manera que no sea pisado, ni cause tropiezos, ni se someta a daños o tensiones.
- Este producto no contiene partes reparables por el usuario. Consulte la sección de Atención al Cliente en este manual para obtener información de servicio. No intente reparar o reparar el EVSE usted mismo.
- No opere el EVSE si éste o el cable de carga SAE J1772 están físicamente abiertos, agrietados, deshilachados o dañados de otra manera. Póngase en contacto con un Representante de Servicio Técnico para su reparación. Consulte la sección de Atención al Cliente en este manual para obtener información sobre el Representante de Servicio Técnico en la área.
- Este dispositivo no es para uso en garajes comerciales, en el que un GARAJE COMERCIAL se define como una instalación (o parte de la misma) utilizada para la reparación de vehículos de combustión interna, en los que el área puede ser clasificada debido a la presencia de vapores inflamables (como los de la gasolina).
- No coloque los dedos dentro del extremo del acoplador del cable de carga SAE J1772.
- No permita que los niños usen este dispositivo. La supervisión

de un adulto es obligatoria cuando hay niños que estén cerca de un EVSE que está en uso.

- Los tomacorrientes de 240V están específicamente diseñados para reubicaciones **ocasionales**, como la mudanza de una casa a otra.
- Por su seguridad personal, el interruptor de circuito DEBE estar apagado antes de enchufar Y/O desenchufar dispositivos de 240V (incluyendo este dispositivo EVSE).
- Se **recomienda encarecidamente** una salida (receptáculo) NEMA dedicada. El receptáculo NEMA se desgastan con el tiempo, especialmente cuando se produce una conexión y desconexión repetidas de los enchufes NEMA. Verifique el receptáculo para asegurarse de que no esté desgastada. Un receptáculo desgastado puede causar que la conexión del enchufe se sobrecaliente y sea riesgo de incendio. No use un enchufe que se caliente demasiado. Se recomienda que el EVSE enchufable permanezca enchufado.
- Haga que un electricista verifique que todo el cableado del receptáculo sea correcto y que cumpla con los requisitos del código local antes de conectar el EVSE.
- **No Use** este EVSE con un cable de extensión o adaptador de enchufe de pared. Conecte este EVSE directamente el receptáculo.
- Asegúrese de que el EVSE esté montado en la pared o colocado sobre un soporte para que no cuelgue del receptáculo. Los enchufes no están diseñados para soportar el peso del EVSE.

Additional Safety Instructions



WARNING: Turn off power to the EVSE at the circuit breaker panel before moving, servicing or cleaning the unit.

AVERTISSEMENT: Couper l'alimentation de l'EVSE au niveau du panneau de disjoncteurs avant de déplacer, d'effectuer la maintenance ou de nettoyer l'appareil.

ADVERTENCIA: Desconecte la alimentación del EVSE en el panel del interruptor automático antes de mover, reparar o limpiar la unidad.



WARNING: Always turn off input power to the EVSE at the circuit breaker panel prior to plugging into or unplugging from a wall socket.

AVERTISSEMENT: Toujours éteindre la puissance d'entrée du EVSE sur le panneau du disjoncteur avant de brancher ou de débrancher un socket mur.

ADVERTENCIA: Siempre apague la alimentación de entrada a su estación de carga en el panel de interruptores automáticos de circuito antes de realizar el mantenimiento o la limpieza de la unidad.

NOTE: VENTILATION - Some electric vehicles require an external ventilation system to prevent the accumulation of hazardous or explosive gases when charging indoors. Consult the vehicle owner's manual to determine if your vehicle requires ventilation during indoor charging.

REMARQUE: VENTILATION - Certains véhicules électriques nécessitent un système de ventilation externe pour éviter l'accumulation de gaz explosifs ou dangereux lors de la charge à l'intérieur. Consultez le manuel du propriétaire du véhicule pour déterminer si votre véhicule nécessite une ventilation quand le recharge en salle.

NOTA: VENTILACIÓN - Algunos vehículos eléctricos requieren un sistema de ventilación externo para evitar la acumulación de gases peligrosos o explosivos, al ser cargados en interiores. Consulte el manual del propietario del vehículo para determinar si su vehículo requiere ventilación durante la carga en interiores.

NOTE: Vehicles which conform to the SAE J1772 standard for communication can inform the charge station that they

require an exhaust fan. The AmazingE FAST is not equipped to control ventilation fans. Do not charge the vehicle with the AmazingE FAST if ventilation is required.

REMARQUE: Véhicules qui sont conformes à la norme SAE J1772 de communication peuvent informer la station de recharge qu'ils nécessitent un ventilateur d'extraction. Le AmazingE FAST n'est pas équipé pour contrôler les ventilateurs. Ne chargez pas le véhicule avec le AmazingE FAST si la ventilation est nécessaire.

NOTA: Los vehículos que cumplan con el estándar de comunicación SAE J1772 pueden informar que su EVSE requieren un extractor de aire. La AmazingE FAST no está equipado para controlar ventiladores. No cargue el vehículo con la AmazingE FAST si se requiere ventilación.



CAUTION: DO NOT CHARGE a vehicle indoors if it requires ventilation. Contact a Service Representative for information.

ATTENTION: NE PAS RECHARGER un véhicule à l'intérieur si il nécessite une ventilation. Contactez votre représentant de service pour plus d'informations.

ATENCIÓN: NO RECARGUE un vehículo en interiores si requiere ventilación. Póngase en contacto con su Representante de Servicio Técnico para obtener más información.

Save these instructions for future reference.

Conservez ces instructions pour référence future.

Guarde estas instrucciones para referencias futuras.

FCC INFORMATION

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

This product has been designed to protect against Radio Frequency Interference (RFI). However, there are some instances where high powered radio signals or nearby RF-producing equipment (such as digital phones, RF communications equipment, etc.) could affect operation.

If interference to the EVSE is suspected, we suggest the following steps be taken before consulting ClipperCreek Customer Service for assistance:

1. Reorient or relocate nearby electrical appliances or equipment during charging.
2. Turn off nearby electrical appliances or equipment during charging.



CAUTION: Changes or modifications to this product by other than an authorized service facility may void FCC compliance.

ATTENTION: Modifications apportées à ce produit par qui conque autre qu'un centre de service autorisé peut annuler la conformité FCC.

ATENCIÓN: Cambios o modificaciones a este product por otros que no sean un centro de servicio autorizado pueden anular el cumplimiento con la FCC.

OPERATION

The AmazingE FAST EVSE is a compact, travel-friendly EVSE that provides the Plug-In Electric Vehicle (PEV) user with a safe and manageable link between the power grid and the PEV.

Plug the EVSE into the wall or have a licensed electrician install the hardwired EVSE. Unwrap the charge cable and plug the charge coupler firmly into the vehicle's charge port. Do not unplug from the wall while the vehicle is still connected. Always turn off input power to the EVSE at the circuit breaker panel prior to plugging into or unplugging from a wall socket.

Normally, the vehicle will immediately request a charge using a special communication line in the cable. Within a few seconds the charging cycle will begin. After an average driving day the vehicle battery pack will require several hours (length of time depends on the vehicle acceptance rate, battery pack size and the vehicle's state of charge) to recharge completely. Charging overnight is the most convenient way to maintain healthy batteries and ensure the vehicle's full range will be available for the next day.

To remove the charge coupler once a charge cycle has completed (or to interrupt a charge in progress) press and hold down the latch release lever on the charge coupler handle then unplug the charge coupler from the vehicle charge port.

NOTE: Multiple configurations of the AmazingE FAST are discussed in this manual; we recommend contacting ClipperCreek Customer Service as some units may not yet be available.

***THIS DEVICE IS NOT INTENDED FOR USE WITH AN
EXTENSION CORD.***

THE AmazingE FAST FRONT PANEL

The front panel on the AmazingE FAST has three indicator lights:




-  **Power** (Amber) indicates the EVSE is ON and ready to use.
-  **Fault** (Red) indicates that the receptacle is not wired correctly, the EVSE is unable to communicate with the vehicle correctly, or the EVSE has detected a safety fault condition. The problem can be due to improper grounding or missing Earth Ground. Call Customer Support or have the wiring examined by a qualified electrician.
-  **Charging** (Green) indicates that the vehicle is requesting a charge and AC power is currently applied to the vehicle.

Figure 1: Front Panel



Table 1: Front Panel LED Information

#	Amber POWER	Red FAULT	Green CHARGING	Fault Condition
1	off	off	off	No power to the EVSE. Check circuit breaker.
2	ON	off	off	EVSE has power, not plugged into PEV, or PEV not requesting a charge.
3	ON	off	ON	Charging enabled, power is applied to the vehicle.
4	ON	ON - not blinking	off	Ground monitor trip, improper grounding or ground is not present.
5	off	ON - not blinking	off	PEV Pilot communication out of spec, disconnect from vehicle and reconnect.
6	off	1 - blink	off	PEV ground fault trip. Check vehicle connection, disconnect and restart.
7	off	2 - blinks	off	Internal EVSE Fault. Disconnect from vehicle, turn power off and then back on. If fault persists, call for service.
8	off	3 - blinks	off	Internal EVSE Fault. Disconnect from vehicle, turn power off and then back on. If fault persists, call for service.
9	off	4 - blinks	off	Internal EVSE Fault. Disconnect from vehicle, turn power off and then back on. If fault persists, call for service.
10	off	5 - blinks	off	Internal EVSE Fault. Disconnect from vehicle, turn power off and then back on. If fault persists, call for service.

INSTALLATION: SERVICE CONNECTIONS



CAUTION: To reduce the risk of fire, connect only to a circuit provided with the appropriate maximum branch circuit overcurrent protection in accordance with the National Electrical Code, ANSI/NFPA 70 (US) or the Canadian Electric Code C22.2 NO. 280-13 (Canada).

ATTENTION: Pour réduire le risque d'incendie, de se connecter uniquement à un circuit fourni avec le approprié surintensités, en conformité avec le Code National électrique ANSI/NFPA 70 (US) ou Code Canadien de l'électricité C22.2 NO. 280-13 (Canada).

ATENCIÓN: Para reducir el riesgo de incendio, conecte sólo a un circuito proporcionado con la máxima protección adecuada contra sobre corriente del circuito derivado de acuerdo con el Código Eléctrico Nacional, ANSI/NFPA 70 (EE.UU) o el Código Eléctrico Canadiense C22.2 NO. 280-13 (Canadá).

Table 2: Service Connections Table

Service Connections Table		
AmazingE Fast Model AmazingE Fast Modèle AmazingE Fast Modelo	Circuit Breaker Rating Calibre de Disjoncteur Capacidad Nominal del Interruptor de Circuito	Receptacle Type Prise Électrique Tipo de Receptáculo
AZF-40 (Hardwired)	40A	n/a
AZF-40P + NEMA 14-50P	40/50A	NEMA 14-50R



CAUTION: This is a single-phase device. DO NOT connect all three phases of a 3-phase feed! Use any two phases of a three-phase wye-transformer feed. The center-point of the three phases (usually used as Neutral) must be grounded somewhere in the system. A Neutral connection is not required by the EVSE. Only Line 1, Line 2, and Ground are required, as shown in **Figure 3**.

ATTENTION: Il s'agit d'un appareil monophasé. NE PAS relier tous les trois phases d'une alimentation triphasée! Vous pouvez utiliser les deux phases d'un triphasé en étoile transformateur alimentation. Le point central des triphasé (généralement utilisé comme Neutre) doit être mis à la terre quelque part dans le système. Une connexion Neutre n'est pas exigée par la EVSE. Seulement ligne 1, ligne 2, et Mise à la Terre sont nécessaires, comme le montre la **Figure 3**.

ATENCIÓN: Este es un dispositivo de una sola fase. ¡No conecte las tres fases de una alimentación trifásica! Puede utilizar cualquiera dos fases de un transformador trifásico de alimentación "Y". El punto central de las tres fases (generalmente utilizado como Neutro) debe estar conectado a tierra en algún punto del sistema. Una conexión Neutra no es requerida por la EVSE. Sólo la Línea 1, Línea 2, y la Conexión a Tierra son necesarias, tal y como se muestra en la **Figura 3**.



CAUTION: The two phases used must each measure 120V to Neutral. Earth Ground must be connected to Neutral at only one point, usually at the service entry breaker panel.

ATTENTION: Les deux phases utilisées doivent mesurer chaque 120V à Neutre. Mise à la terre doit être connecté au Neutre en un seul point, généralement à l'entrée panneau de disjoncteurs de service.

ATENCIÓN: Las dos fases utilizadas deben cuantificar 120V a punto Neutro. La Conexión a Tierra debe conectarse al punto Neutro en un solo punto, generalmente en la entrada de servicio del panel de interruptores automáticos.



CAUTION: If a 240V 3-Phase feed is from a Delta-connected secondary, the leg used must have a center-tap. That tap must be Grounded. Only the two phases either side of the center-tapped leg can be used. See **Figure 4**.

ATTENTION: Si une alimentation à triphasé 240V provient d'un triangle connecté secondaire, la borne utilisée doit avoir un centre-tap. Que la tap doit être Mise à la Terre. Seuls les deux phases l'une ou l'autre côté du centre tapped brancher peut être utilisé. Voir la **Figure 4** ci-dessous.

ATENCIÓN: Si una alimentación trifásica de 240V es de conexión secundaria Delta, la pierna utilizada debe tener una derivación central. Esa derivación debe Conectar a Tierra. Sólo las dos fases en cualquier lado de la pierna de derivación central pueden ser utilizadas. Consulte la **Figura 4**.



CAUTION: Warranty is void if this unit is not wired properly.

ATTENTION: La garantie est annulée si cette unité n'est pas correctement câblé.

ATENCIÓN: La garantía se anula si esta unidad no está cableada correctamente.



WARNING: Only a qualified licensed electrician should perform the installation. The installation must be performed in accordance with all local electrical codes and ordinances.

AVERTISSEMENT: Seul un électricien qualifié doit effectuer l'installation. L'installation doit être effectuée conformément à tous les codes électriques locaux et des ordonnances.

ADVERTENCIA: Sólo un electricista capacitado debe realizar la instalación. La instalación debe realizarse conforme a todos los códigos y ordenanzas locales.

Only three wires are connected, but care must be taken that the service transformer secondary connection is definitely known, and the three wires from the main circuit breaker panel are connected and labeled correctly. **Figures 2, 3, and 4** show the most common service transformer secondary wiring formats.

Notice that L1, L2, & Ground are labeled on each diagram. Those transformer outputs correspond to the same inputs on the EVSE. Also, each of the two 3-phase diagrams shows an L3 output, which is not used. Do not connect all three phases of a 3-phase secondary to the EVSE. This is a single-phase device.

The Neutral at the service panel must be connected to Earth Ground somewhere in the system on any of the three connection arrangements. Ground-fault protection is not possible unless the Neutral (center-tap on the service transformer) is connected to an Earth Ground. If no Ground is provided by the electrical service, a grounding stake must be driven into the ground nearby, following local electrical codes. The grounding stake must be connected to the ground bar in the main breaker panel, and Neutral connected to Ground at that point.



WARNING: Local electrical codes must always be followed when installing the grounding stake.

AVERTISSEMENT: Les codes électriques locaux doivent toujours être respectés lors de l'installation du piquet de mise à la terre.

ADVERTENCIA: Siempre se deben seguir los códigos eléctricos locales al instalar la estaca de conexión a tierra.

The following diagrams illustrate the three service transformer secondary connections most common in North America.

Figure 2: 220/240V Single-Phase

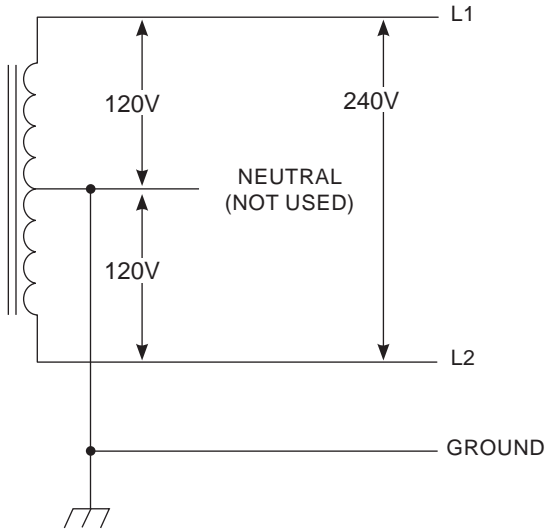
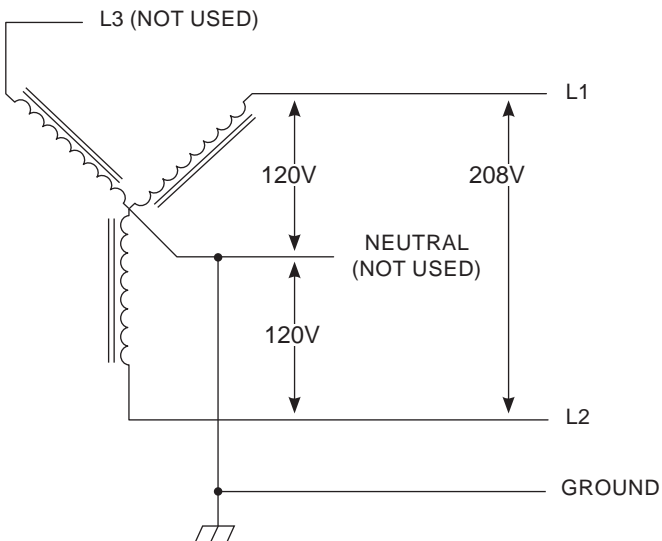


Figure 3: 208V 3-Phase, Wye-Connected

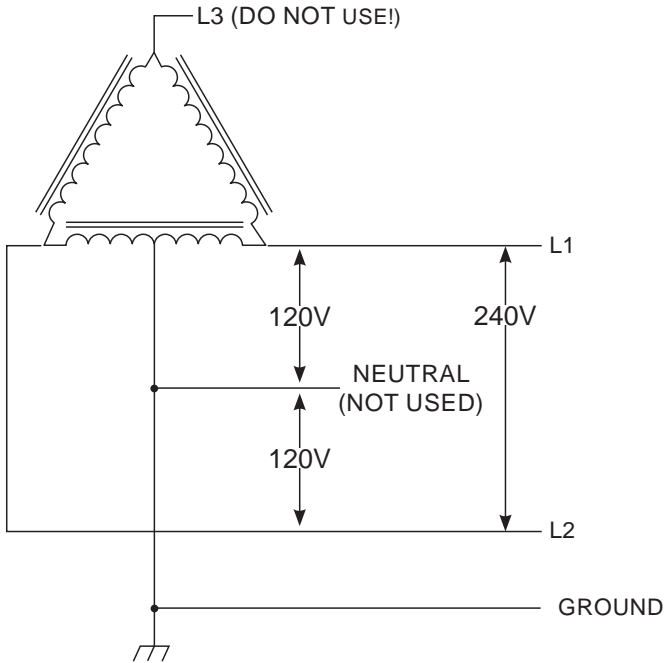


NOTE: With a Wye-connected secondary, any two of the legs can be used to provide 208V to the AmazingE FAST. For example, L1 & L2, or L1 & L3, or L2 & L3. Leave the unused leg open. Do not connect it to a Neutral bar, or to Ground. Be sure the center point is Earth Ground somewhere in the system.

REMARQUE: Avec un transformateur étoile-connecté secondaire, deux des lignes peut être utilisé pour fournir 208V à la AmazingE FAST. Par exemple , L1 & L2, ou L1 & L3, ou L2 & L3. Laissez la borne inutilisée ouverte. Ne le connectez pas à un bar Neutre, ou à la Mise à la Terre. Assurez-vous que le point central est Mis à la Terre quelque part dans le systèmeA

NOTA: Con un secundario conectado en “Y”, cualquiera de las dos piernas puede ser utilizada para proporcionar 208V a la AmazingE FAST. Por ejemplo, L1 y L2 o L1 y L3 o L2 y L3. Deje la pierna no inutilizada abierta. No la conecte a la Barra Neutro, o a Tierra. Asegúrese de que el punto central está conectado a Tierra en algún punto del sistema.

Figure 4: 240V 3-Phase, Delta-Connected, with center-tap on one leg





CAUTION: With the Delta connection, one leg must be center-tapped. Only the two phases on either side of the center tap can be used. The two phases must both measure 120V to Neutral. The third line (L3) of the delta is 208V, with respect to Neutral, and is sometimes referred to as a “stinger.” Do not use this third line! Consult the transformer manufacturer’s literature to be sure the single leg can supply the required power.

ATTENTION: Avec la connexion triangle, une borne doit être centre-tapped, et seulement les deux phases d’un côté ou de l’autre du centre tap peut être utilisé. Les deux phases doivent mesurer 120V à Neutre. La troisième ligne (L3) du delta est 208V, par rapport à la position Neutre, et il est parfois désigné comme un “stinger.” Ne pas utiliser ce troisième ligne! Consultez la documentation du transformateur fabricant pour être sûr du borne unique peut fournir la puissance requise.

ATENCIÓN: Con la conexión Delta, una pierna debe ser de derivación central. Sólo las dos fases en cualquier lado de la derivación central puede ser utilizada. Las dos fases, ambas deben cuantificar 120V a punto Neutro. La tercera línea (L3) del delta es de 208V, con respecto al punto Neutro, y se refiere a veces como un “stinger”. ¡No utilice esta tercera línea! Consulte la documentación del fabricante del transformador para estar seguro de que la pierna única puede suministrar la potencia necesaria.



CAUTION: A 3-Phase Delta-Connected transformer secondary without a center-tap on one leg cannot be used with the AmazingE FAST. No “Neutral” point is available to be connected to Ground for Ground-fault protection. The EVSE will not allow the contactor to close if it does not sense the presence of a Ground wire connected to a “Neutral” point on the transformer secondary.

ATTENTION: Un triphasé triangle-connecté transformateur secondaire sans centre-tap sur le terminal ne peut pas être utilisé avec la AmazingE FAST. Aucun point “Neutre” est disponible pour être connecté à Mise à la Terre pour protection de défaut à la terre. Le EVSE ne permettra pas le contacteur de fermer si elle ne détecte pas la présence d’un fil de Masse connecté à un point “Neutre” sur le secondaire du transformateur.

ATENCIÓN: Un transformador trifásico secundario de conexión delta sin derivación central en una pierna no puede ser utilizado la AmazingE FAST. Ningún punto “Neutro” está disponible para ser conectado a tierra para protección contra falla de tierra. La EVSE no permitirá que el contactor cierre si no detecta la presencia de un cable de Tierra conectado a un punto “Neutro” en el secundario del transformador.

MOUNTING PROCEDURES

Determine the wall mounting location for the EVSE:

- The hardwired AmazingE FAST has three service conductors which are shielded by three feet of flexible conduit. The EVSE must be positioned such that this conduit can reach a nearby junction box.
- The plug-in versions of AmazingE FAST have the NEMA plug head connected by nearly one foot of cable (including the plug head) to the top of the EVSE. The EVSE must be positioned such that this plug can safely be inserted into a wall-mounted NEMA socket.
- Position the bottom of the EVSE at a comfortable height and at least 18 inches (46 cm) above the ground for indoor installations and 24 inches (61 cm) above the ground for outdoor installations. Ensure that the LEDs on the front panel of the EVSE can clearly be seen by anyone who will be operating the device.
- The AmazingE FAST has two mounting tabs centered on the back, spaced 12.5 inches (31.8 cm) apart.



WARNING: For safety, always turn off input power to the EVSE at the circuit breaker panel prior to plugging it in. Likewise, turn off the circuit breaker prior to unplugging it.

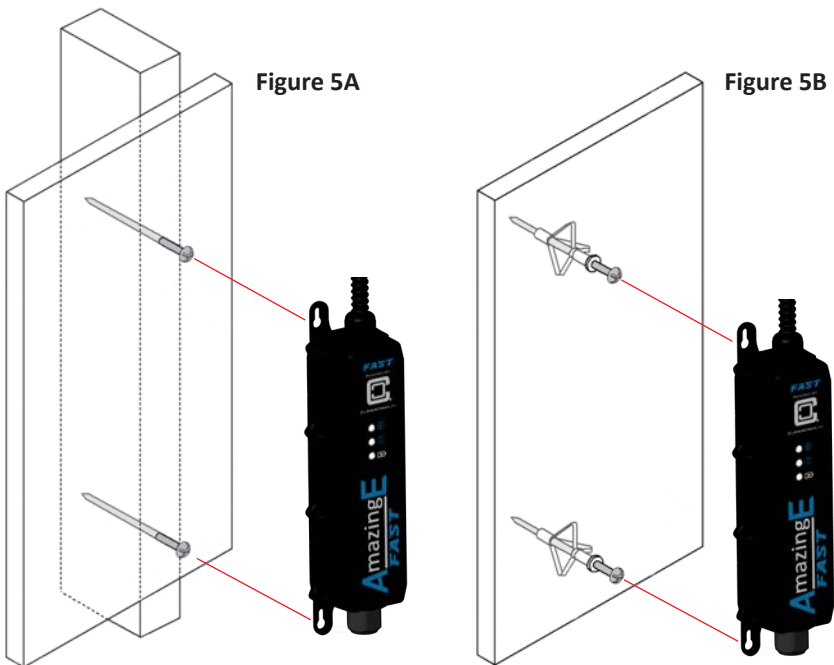
AVERTISSEMENT: Pour sécurité, toujours désactiver le courant d'entrée de la station de recharge au niveau du disjoncteur du panneau avant de le brancher. De même, coupez le disjoncteur avant de le débrancher.

ADVERTENCIA: Por razones de seguridad, siempre apague la alimentación de entrada a la estación de carga en el panel de interruptores automáticos de circuito antes de enchufarlo o cablearlo a las líneas de servicio. Igualmente, apague el interruptor automático de circuito antes de desenchufarlo o desconectar la unidad de las líneas de servicio.

For Hollow-Wall Construction Mount:

- Place the EVSE so both mounting tabs can take advantage of solid structural framing inside of the wall or a strong wall surface. See **Hollow-Wall Construction in Figure 5A.**
- Use proper anchoring hardware such as drywall toggles or molly bolts if unable to mount hardware into a solid surface. See **Hollow-Wall Construction in Figure 5B.**

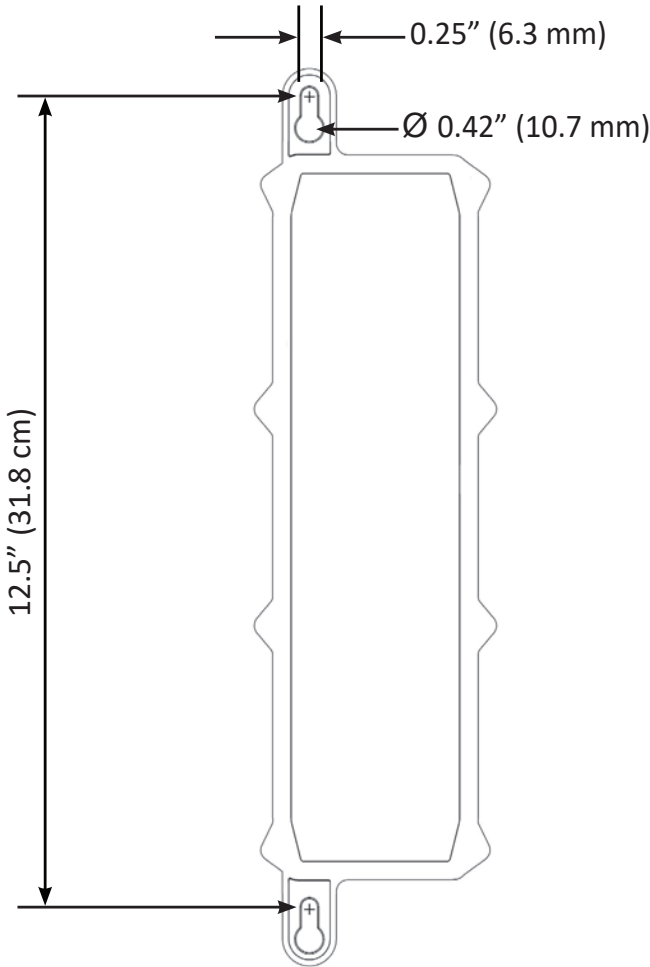
Figure 5: AmazingE FAST Mounting Options



For Solid-Wall Construction Mount:

- To secure the unit in concrete, pre-drill appropriately sized holes and use multi-set or wedge anchor hardware at both mounting points.
- To secure the unit in brick or stone, pre-drill appropriately sized holes and use sleeve anchors at both mounting points.

Figure 6: Mounting Screw Slots of AmazingE FAST



The screw size and length recommended for mounting the EVSE is #10 and at least 2" (50 mm) long to utilize the mounting tabs for a **travel-friendly** EVSE. Alternatively a screw size of ¼ - 20 and at least 2" (50 mm) in length can be used for **permanent** mounting of the EVSE.

It is important to note that if the mounting tabs are intended to be used for temporary mounting, the diameter of the screw shaft must be larger than 0.25" (6.3 mm) and smaller than 0.42" (10.7mm) to fit into the slot of the enclosure. Screw heads of 0.40" diameter are recommended.

Wiring Instructions (Hardwired AmazingE FAST)

Route the EVSE conduit to a nearby junction box. Use the included 1/2" trade size NPT watertight fitting to provide a moisture resistant seal with the junction box. If necessary, drill a 1/2" diameter hole to accommodate the liquid-tight fitting.

Figure 7: Wiring the EVSE in a junction box



Before connecting the EVSE service conductors, please carefully read the section of this manual titled Service Connections. If you are unsure of the type of power provided at the service panel, please consult with your local utility or call your Service Representative for assistance.

NOTE: The three EVSE service conductors use stranded 10 AWG, 75°C copper wire. The insulation of each conductor is color coded for standard 240V AC installation:

Green: Ground

Black: Line 1 (120V AC to Ground)

Red: Line 2 (120V AC to Ground)

REMARQUE: Les trois conducteurs service l'EVSE utiliser multibrins 10 AWG, 75°C fil de cuivre. L'isolation de chaque conducteur est un code couleur pour une installation standard de 240 V AC:

Vert: Mise à la Terre

Noir: Ligne 1 (120V AC à Mise à la Terre)

Rouge: Ligne 2 (120V AC à Mise à la Terre)

NOTA: Los tres conductores de servicio EVSE utilizan cable de cobre trenzado de 10 AWG y 75°C. El aislamiento de cada conductor está codificado por colores para la instalación estándar de 240 VCA:

Verde: Tierra

Negro: Línea 1 (120V CA a tierra)

Rojo: Línea 2 (120V CA a tierra)

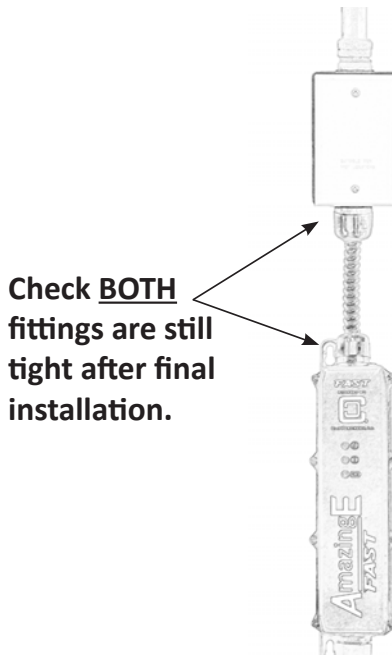


WARNING: The conduit fitting can loosen during the installation process. To ensure a watertight installation, re-check and fully hand-tighten **BOTH** conduit fittings, as shown in **Figure 8**, after the installation process is complete.

AVERTISSEMENT: Le raccord de câble peut se desserrer pendant l'installation. Pour s'assurer que l'installation est étanche, revérifier et serrer à la main **LES DEUX** raccords de câble, comme le montre la **Figure 8**, une fois l'installation terminée.

ADVERTENCIA: La conexión del conducto puede aflojarse durante el proceso de instalación. Para garantizar una instalación hermética, vuelva a verificar y apriete completamente a mano **AMBOS** accesorios del conducto, tal como se muestra en la **Figura 8**, después de completar el proceso de instalación.

Figure 8: Check BOTH conduit fittings after installation



RECEPTACLE INSTRUCTIONS

The plug-in AmazingE FAST is fitted with a NEMA 14-50 plug. The plug extends from the top of the EVSE enclosure. Regulations limit this plug to a maximum of 12 inches (30.5 cm) in length. For this reason, the EVSE must be mounted below the NEMA receptacle and must also be located within 12 inches (30.5 cm) of it.

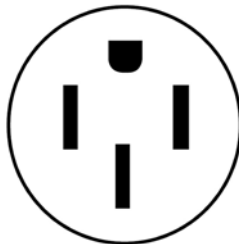
With the NEMA 14-50 configuration, the ground pin is located at the top of the plug. With this in mind, it is recommended that a 14-50 receptacle be oriented accordingly. The installation must be performed in accordance with all local electrical codes and ordinances.

Figure 9: Preferred orientation of the NEMA receptacle and the EVSE

NOTE: PLUG ORIENTATION IS CRITICAL. NEMA 14-50 receptacle should be wired so Ground is at the top.

REMARQUE: L'ORIENTATION DE LA PRISE EST ESSENTIELLE. La prise NEMA 14-50 doit être câblée de façon à ce que la terre soit en haut.

NOTA: LA ORIENTACIÓN DE LA TOMA ELÉCTRICA ES CRÍTICA. El receptáculo NEMA 14-50 debe estar conectado, de manera que la tierra esté en la parte superior.



NEMA 14-50R



GROUNDING INSTRUCTIONS

This product must be grounded. If this product should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock.

Hardwired AmazingE FAST:

The hardwired AmazingE FAST is equipped with three service conductors shielded by three feet of flexible conduit. This product must be connected to a grounded, metal, permanent wiring system, or an equipment-grounding conductor must be run with the circuit conductors and connected to the Ground lead on the product.

Plug-in AmazingE FAST:

The plug-in AmazingE FAST is equipped with a cord having an equipment grounding conductor and a grounding plug. The plug must be plugged into an appropriate receptacle that is properly installed and grounded in accordance with all local codes and ordinances.



WARNING: Improper connection of the equipment-grounding conductor may result in a risk of electric shock. Check with a qualified electrician if doubt exists as to whether the product is properly grounded. Do not modify the plug provided with the product. If it will not fit the receptacle, have a proper receptacle installed by a qualified electrician.

AVERTISSEMENT: Une mauvaise connexion du conducteur de terre peut entraîner un risque de choc électrique. Vérifier avec un électricien qualifié si il existe un doute quant à savoir si le produit est correctement mis à la terre. Ne pas modifier la fiche fournie avec le produit – si elle n’entre pas dans la prise, faites installer une prise adéquate par un électricien qualifié.

ADVERTENCIA: La conexión incorrecta del conductor de equipo a tierra puede resultar en un riesgo de descarga eléctrica. Consulte con un electricista calificado si existe la duda de si el producto está correctamente conectado a tierra. No modifique el enchufe suministrado con el producto – si no entra en el receptáculo, tenga un receptáculo adecuado instalado por un electricista cualificado.

MOVING & STORAGE INSTRUCTIONS

Note that both the hardwired EVSE and the plug-in EVSE are intended for fixed installations. For mounting requirements, consult the Mounting Procedures section of the Installation Instructions in this manual.



WARNING: Always turn off input power to the EVSE at the circuit breaker panel prior to plugging into or unplugging from a NEMA socket.

AVERTISSEMENT: Veiller à toujours couper l'alimentation en électricité de l'EVSE au niveau du panneau de disjoncteurs avant de brancher ou de débrancher une prise NEMA.

ADVERTENCIA: Siempre apague la toma de alimentación de entrada al EVSE en el panel del interruptor automático, antes de enchufarlo o desenchufarlo de una toma NEMA.

When transporting the EVSE, do not lift or carry the entire EVSE by the charge cord. Likewise, do not lift or carry the entire EVSE by the NEMA plug or conduit.

The EVSE has a non-operational storage temperature range of -40°C to +80°C (-40°F to +176°F).

MAINTENANCE

The AmazingE FAST requires no periodic maintenance other than occasional cleaning.



WARNING: To reduce the risk of electrical shock or equipment damage, exercise caution while cleaning the EVSE and the EV charge connector cable.

1. Turn off the EVSE at the circuit breaker.
2. Unplug the EVSE from the receptacle.
3. Clean the EVSE using a soft cloth lightly moistened with mild detergent solution. Never use any type of abrasive pad, scouring powder, or flammable solvents such as alcohol or benzene.

AVERTISSEMENT: Pour réduire le risque de choc électrique ou des dommages équipement, user de prudence lors du nettoyage de l'appareil et le câble du connecteur de charge EV.

1. Eteignez la équipement au disjoncteur avant de le nettoyer.
2. Débranchez l'EVSE du recopérable.
3. Nettoyez l'équipement à l'aide d'un chiffon doux légèrement humidifié avec une solution de détergent doux. Ne jamais utiliser de tampons abrasifs, de poudre à récurer ou de solvants inflammables tels que l'alcool ou le benzène.

ADVERTENCIA: Para reducir el riesgo de descarga eléctrica o daños al equipo, debe tener cuidado durante la limpieza de la unidad y el cable del conector de carga EV.

1. Apague la estación de carga en el interruptor automático de circuito antes de la limpiar.
2. Desenchufe el EVSE del receptáculo.
3. Limpie la estación de carga con un paño suave ligeramente humedecido con una solución de detergente suave. Nunca utilice ningún tipo de estropajo abrasivo, polvo limpiador o disolventes inflamables tales como alcohol o bencina.

SPECIFICATIONS

Line Input Power

Voltage & Wiring: 240V AC single-phase- L1, L2 and Safety Ground
 208V AC 3-phase wye-connected- any 2 phases and Safety Ground
 240V AC 3-phase, delta-connected. With center-tap on one leg, must use only the two phases on either side of the center-tap. The two phases must both measure 120V AC to the ground.
Do not use the third leg (208V “Stinger”)

Voltage Range: 185V AC to 264V AC

Frequency: 50/60 Hz

CCID: 20mA, includes CCID with automatic reset

CCID Trip Threshold: 20mA

Plug: Attached NEMA 14-50 Plug or Hardwired

Dimensions: Dimensions are for the enclosure only

Height: 13.75 inches (349.3 mm)

Width: 3.75 inches (95.3 mm)

Depth: 2.75 inches (69.9 mm)

Weight: 8.17 lbs (3.7 kg) including the SAE J1772 connector and 25' (7.6 m) of cable

Cable Length: 25' (7.6 m) of cable

Output Current: **Note that the output current for the vehicle is set by the duty cycle of the Pilot waveform. See Table 3.**

Environment

Operating Temp: -30°C (-22°F) to +50°C (+122°F)

Storage Temp: -40°C (-40°F) to +80°C (+176°F)

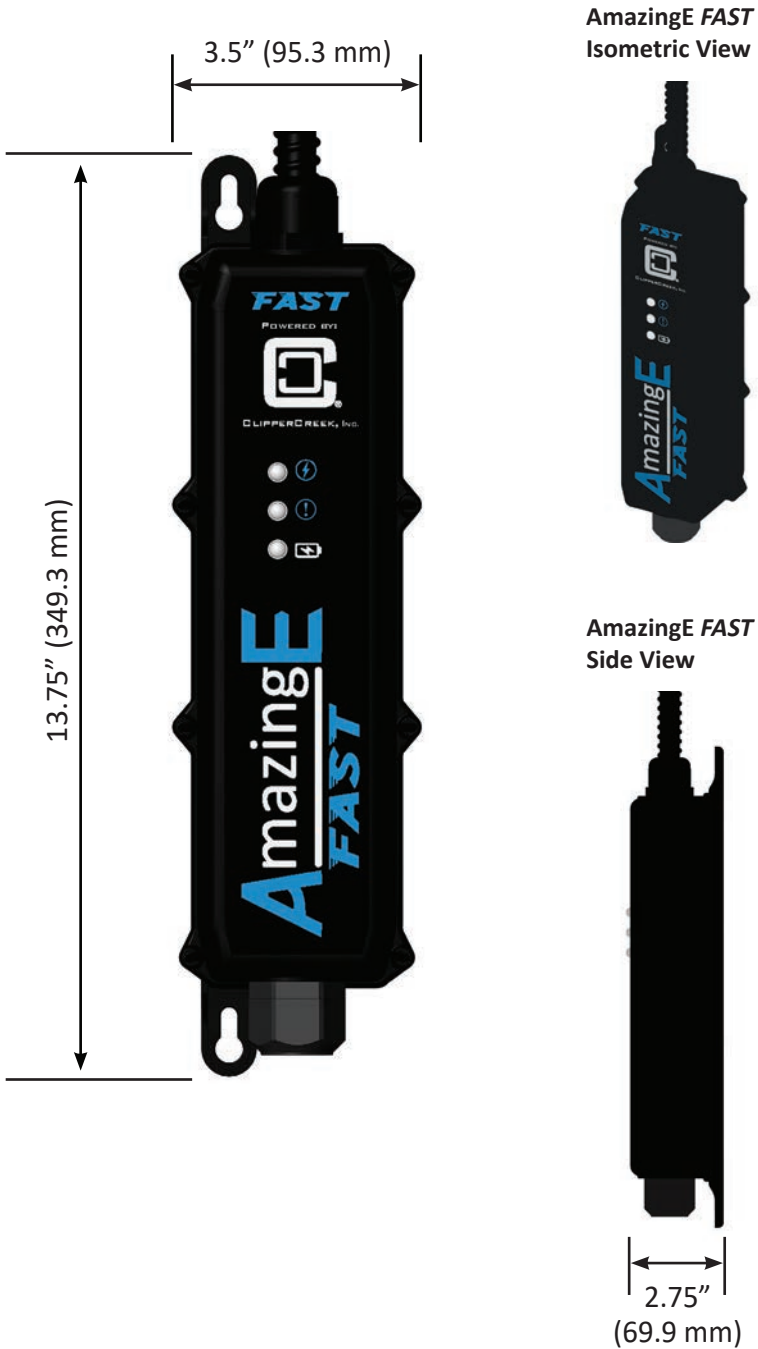
NEMA Rating: NEMA 4 - watertight

Agency Approvals: ETL, ENERGY STAR® Certified

Table 3: Circuit Breaker Rating, Maximum Current, Output Power

AmazingE Fast Model	Circuit Breaker Rating	Maximum Current	Output Power
AZF-40 (Hardwired)	40A	32A	7.7kW
AZF-40P + NEMA 14-50P	40/50A	32A	7.7kW

Figure 10: AmazingE FAST Enclosure Dimensions



CUSTOMER SUPPORT

For questions about the AmazingE *FAST*, please call Customer Service at the number below. **PLEASE HAVE THE SERIAL NUMBER AVAILABLE BEFORE CALLING** - this information is printed on the label on the side of the EVSE enclosure. If the call is made after business hours, please leave a name, telephone number, the unit serial number, and a brief description of the problem; a Customer Service Representative will call back at the earliest opportunity.

**TO CONTACT CLIPPERCREEK DIRECTLY FOR SERVICE,
CALL (877) 694-4194 MONDAY THROUGH FRIDAY BETWEEN
8:00AM AND 5:00PM PACIFIC TIME.**



LIMITED WARRANTY – ELECTRIC VEHICLE SUPPLY EQUIPMENT and ACCESSORIES

Enphase Energy, Inc. through its ClipperCreek division
11850 Kemper Road
Auburn, California 95603
Phone: 877-694-4194
Email: information@clippercreek.net

Subject to the terms and conditions below, Enphase Energy, Inc. (“**Enphase**”) provides the following limited warranty the original purchaser of the products (“**Covered Owner**” or “**you**”):

Product 3-year parts, 3-year factory labor:

Subject to the terms and conditions below, Enphase warrants the product to be free from defects in material and workmanship for a period of 3 years commencing on the date of installation (first use) (the “**Warranty Start Date**”). Except where prohibited by applicable law, the product installation date must be evidenced and communicated to Enphase by way of the warranty registration card (or its equivalent). The product registration card must be filled out completely and accurately, and returned to Enphase within 30 days after installation, and the product installation date shall be within 6 months after the purchase date. If a Product installation date is not communicated to Enphase as described above, the product purchase date indicated in the Covered Owner’s proof of purchase for the product shall serve as the start date of the Warranty Period.

If Enphase confirms the existence of a defect that is covered by this Limited Warranty, Enphase will, at its option, repair or replace the product, or refund the actual purchase price for the product less reasonable depreciation based on use at the time the Enphase is notified of the defect. Enphase will not elect to issue a refund unless (i) Enphase is unable to provide a replacement and repair is not commercially practicable or cannot be timely made, or (ii) Covered Owner is willing to accept such a refund. If a defect in material or workmanship exists in the product, to the extent permitted by law, these are the sole and exclusive remedies. Repair parts and/or replacement products may be either new or reconditioned at Enphase’s discretion. This limited warranty does not cover defects caused by improper installation or use, including but not limited to improper connections with peripherals, external electrical faults, accident, disaster, misuse, abuse, or modifications to the product not made by or at the direction of Enphase. Any service repair outside the scope of this limited warranty shall be at applicable rates and terms then in effect. This warranty covers factory parts and factory labor only; it does not cover field service or removal and replacement of the product or any other costs.

All other express and implied warranties for this product including the warranties of merchantability, fitness for a particular purpose, and non-infringement are hereby disclaimed. Some states do not allow the exclusion of implied warranties or limitations on how long an implied warranty lasts, so the above limitation may not apply to you. In no event will Enphase, any of its authorized sales and service representatives, or its parent company be liable to Covered Owner or any third party for any damages in excess of the purchase price of the product. This limitation applies to damages of any kind including any direct or indirect damages, lost profits, lost saving or other special, incidental, exemplary or consequential damages whether for breach of contract, tort or otherwise or whether arising out of the use of or inability to use the product, even if Enphase or an authorized Enphase representative or dealer has been advised of the possibility of such damages or of any claim by any other party. Some states do not allow the exclusion or limitation of incidental damages for some products, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

To obtain warranty service:

Call your nearest authorized Service Representative or the ClipperCreek division of Enphase at the above number. You will receive information as to how service for the product will be provided. If you mail or ship the product in for service, you must insure the product, prepay all shipping charges, and properly pack it for shipment in its original shipping container or its equivalent. You are responsible for all loss or damage that may occur in transit. You must provide proof of purchase for the product and the purchase date before any warranty service can be performed.



CLIPPERCREEK

A division of Enphase Energy, Inc.

WWW.CLIPPERCREEK.COM

877-694-4194