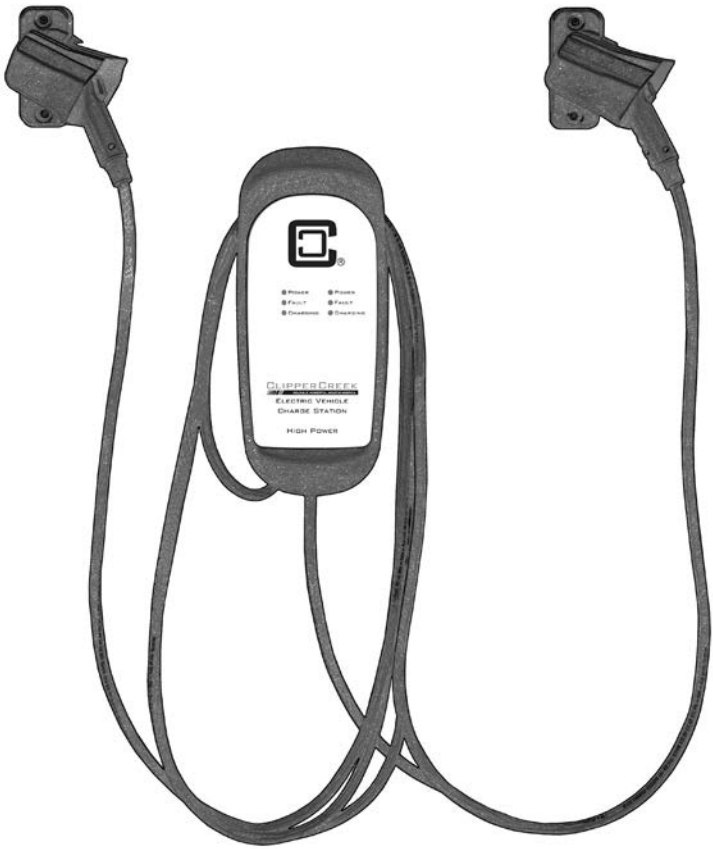
CLIPPERCREEK

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User Manual

Model HCS-D

ENERGY STAR

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 a Customer Service Representative with any questions about the use of this product. (877) 694-4194



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

To view the latest version of this manual please visit clippercreek.com/installation-manuals

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IMPORTANT SAFETY INSTRUCTIONS

ClipperCreek Electric Vehicle Supply Equipment (EVSE) is designed with the safety concerns of the end user as an utmost priority; however, the following safety precautions must be read and followed:

- The EVSE and electrical wiring should be installed by a qualified electrician in accordance with local electrical codes and ordinances.
- Grounding Instructions - The EVSE should be connected to a grounded, metal, permanent wiring system; or an equipment-grounding conductor should be run with circuit conductors and connected to a grounding terminal or lead on the EVSE. Connections to the EVSE should comply with all local electrical codes and ordinances.
- Call the local service provider anytime a procedural question arises; **DO NOT** attempt to perform a procedure you are unsure of.
- Read all installation instructions carefully before performing the pedestal and EVSE installation.

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

The following symbols may be found in this manual or on labels affixed to the 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.* You are capable of doing something that might result in damage to 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 que debe tener cuidado.* Usted es capaz de hacer algo que podría dañar el equipo.



WARNING: *This symbol means danger.* You are in a situation that could cause bodily injury. Before you work 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.* Usted está en una situación que podría causar lesiones corporales. Antes de trabajar en cualquier equipo eléctrico, tenga en cuenta los peligros relacionados con los circuitos eléctricos y las prácticas estándar para prevenir accidentes.

Instructions Pertaining to a Risk of Fire or Electric Shock

When using the HCS-D, 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's owner 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 yourself.
- Do not operate this EVSE if it or the SAE J1772 charge cable is physically open, cracked, frayed, or otherwise visibly damaged. Contact a Service Representative for 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 is **highly recommended.** NEMA outlets wear out over time particularly when repeated insertion and removal of NEMA plugs occur. Check the inlet to be sure it is not worn. A worn outlet can cause the plug connection to overheat and become a fire hazard. It is recommended that plug-in EVSE remain plugged in.

- Have an electrician verify all wiring to the outlet 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 outlet.
- Ensure that the EVSE is mounted to the wall or placed on a support so it does not hang from the outlet. Outlets 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 HCS-D, 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 NEMA dédiée est **fortement recommandée**. Les sorties NEMA s'usent avec le temps, en particulier lorsque l'insertion et le retrait des prises NEMA sont répétés. Vérifiez l'entrée pour vous assurer qu'elle n'est pas usée. Une sortie 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 l'appareil 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 la prise.
- 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. Cette dernière n'est pas conçue pour supporter le poids de l'EVSE.

Instrucciones relacionadas con un riesgo de incendio o descarga eléctrica

Al utilizar el HCS-D, se deben seguir las siguientes precauciones básicas de seguridad eléctrica:

- Utilice este EVSE para cargar vehículos eléctricos equipados con un puerto de carga SAE J1772 únicamente. 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 este 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 operen este dispositivo. La supervisión de un adulto es obligatoria cuando haya 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 NEMA dedicada. Las tomas NEMA se desgastan con el tiempo, especialmente cuando se produce una conexión y desconexión repetidas de los enchufes NEMA. Verifique la entrada para asegurarse de que no esté desgastada. Un tomacorriente 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 tomacorriente 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 a la toma de corriente.
- Asegúrese de que el EVSE esté montado en la pared o colocado sobre un soporte para que no cuelgue del tomacorriente. Los enchufes no están diseñados para soportar el peso del EVSE.

Additional Safety Information



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 EVSE that they require an exhaust fan. The HCS-D is not equipped to control ventilation fans. Do not charge the vehicle with the HCS-D 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 HCS-D n'est pas équipé pour contrôler les ventilateurs. Ne chargez pas le véhicule avec les HCS-D 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. El HCS no está equipado para controlar ventiladores. No cargue el vehículo con el HCS-D 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, the following steps should be taken before consulting a ClipperCreek Sales or Service Representative 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

NOTE: Multiple configurations of the HCS-D EVSE are discussed in this manual; we recommend contacting ClipperCreek, Inc., as some units are not yet available.

The HCS-D EVSE is a compact wall or pedestal-mounted EVSE that provides the Plug-in Hybrid or Battery Electric Vehicle (together Plug-In Electric Vehicles, or "PEV") user with a safe and manageable link between the power grid and the PEV.

Simply unwrap the SAE J1772 charge cable and plug the connector firmly into the vehicle's charge port. Both connectors can be in use at the same time. When one connector is plugged into a vehicle, the EVSE makes 100% of its power available to that vehicle. When both connectors are plugged into vehicles requesting power, the EVSE splits the power evenly between the vehicles. When one vehicle completes its charge, the other vehicle has access to 100% of the power until it completes charging, is unplugged, or another vehicle that requests power is connected to the HCS-D. The status of each connected vehicle is displayed on the front panel of the HCS-D.

Normally, the vehicle will immediately request a charge once the cable is plugged into the vehicle. Within a few seconds the green "Charging" light on the face of the HCS-D will turn on and the charging cycle will begin. After an average driving day the vehicle battery pack will require several hours 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.

When the vehicle has stopped charging the green "Charging" light on the HCS-D will turn off. To remove the connector head once a charge cycle has completed (or to interrupt a charge in progress) press and hold down the latch release lever on the connector handle, ensure the green "Charging" light has turned off, then unplug the connector from the vehicle charge port.

The HCS-D Front Panel

The front panel on the HCS-D has six indicator lights, as shown in **Figure 1.** The three colored indicators - left and right - display status for each of the two vehicle connectors.

POWER (Amber), indicates that power is available to the HCS-D.

FAULT (Red), refer to Fault Conditions in **Table 1**.

CHARGING (Green), indicates that the vehicle is requesting a charge and AC power is currently applied to the vehicle.

Figure 1: HCS-D Front Panel LED Information

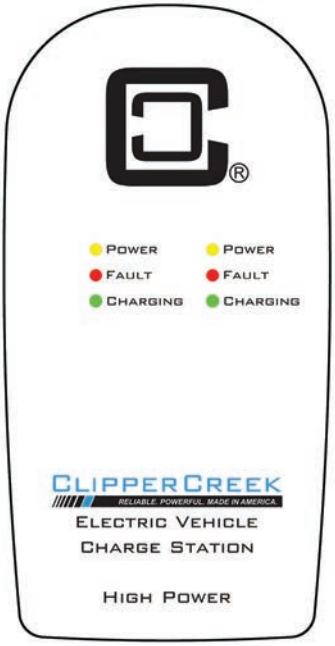


Table 1: Front Panel Indicator Information

#	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 circuit de dérivation protection maximale contre les 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, conécte el dispositivo solo a un circuito de protección contra sobrecorriente máxima del circuito derivado, de acuerdo con el Código Eléctrico Nacional, ANSI/NFPA 70 (Estados Unidos) O el Código Eléctrico Canadiense C22.2 Número 280-13 (Canadá).

Table 2: Service Connections for Standard and Ruggedized HCS-D

HCS-D Model		Circuit Breaker Rating	Receptacle Type
HCS-D40	(Hardwired)	40A	n/a
HCS-D40P	NEMA 6-50P	40A/50A	NEMA 6-50R
HCS-D40P	NEMA 14-50P	40A/50A	NEMA 14-50R
HCS-D40R	(Hardwired)	40A	n/a
HCS-D40PR	NEMA 6-50P	40A/50A	NEMA 6-50R
HCS-D40PR	NEMA 14-50P	40A/50A	NEMA 14-50R
HCS-D50	(Hardwired)	50A	n/a
HCS-D50P	NEMA 6-50P	50A	NEMA 6-50R
HCS-D50P	NEMA 14-50P	50A	NEMA 14-50R

CAUTION: <u>This is a single-phase device. Do not connect all three phases of a 3-phase feed!</u> You may use any two phases of a three phase wye-transformer feed. The centerpoint of the three phases (usually used as Neutral) must be grounded somewhere in the system. A Neutral connection is not required by the HCS-D. Only Line 1, Line 2, and Ground are required, as shown in **Figure 3.**

ATTENTION: <u>Il s'agit d'un appareil monophasé. Ne pas relier tous les trois phases d'une alimentation triphasée!!!</u> 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 HCS-D. Seulement ligne 1, ligne 2, et Mise à la Terre sont nécessaires, comme le montre la **Figure 3**.

ATENCIÓN: <u>Este es un dispositivo monofásico ¡No conecte las tres fases de una alimentación trifásica!</u> Puede usar cualquiera de las dos fases de una alimentación trifásica de transformador de estrella. El punto central de las tres fases (generalmente usado como Neutral) debe estar conectado a tierra en algún lugar del sistema. El HCS-D no requiere una conexión Neutra. Solo se requieren las líneas 1, 2 y tierra, tal 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 medir 120V a Neutral. La conexión a tierra debe estar conectada en Neutral en un solo punto, generalmente en el panel de interruptores de entrada de servicio.

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 on 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 bornes utilisée doit avoir un centretap. 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 240 V proviene de un cable secundario conectado a Delta, la pata utilizada debe tener una toma central. Esa toma debe estar conectada a Tierra. Solo se pueden usar las dos fases a cada lado de la pata de la toma central. Vea **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 no será válida si esta unidad no está cableada correctamente.

WARNING: Only a qualified 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 calificado debe realizar la instalación. La instalación debe realizarse de acuerdo con todos los códigos y ordenanzas eléctricas locales.

Only 3 wires are connected, but care must be taken that the service transformer secondary connection is definitely known, and the 3 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 HCS-D. 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 HCS-D. 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 respectées lors de l'installation du piquet de mise à la terre.

ADVERTENCIA: Siempre se deben seguir los códigos eléctricos locales, a la hora de 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

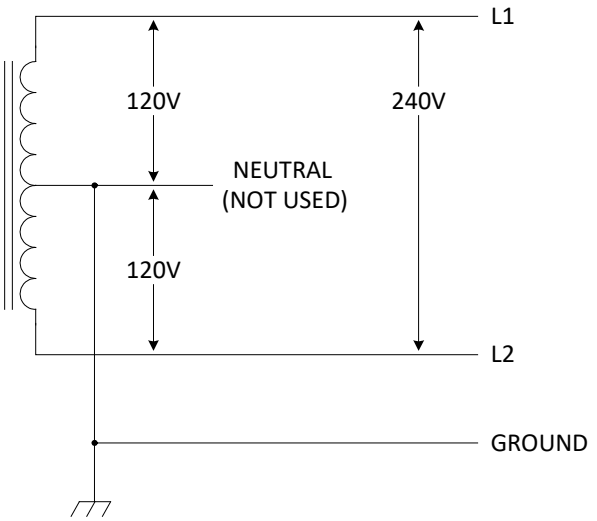
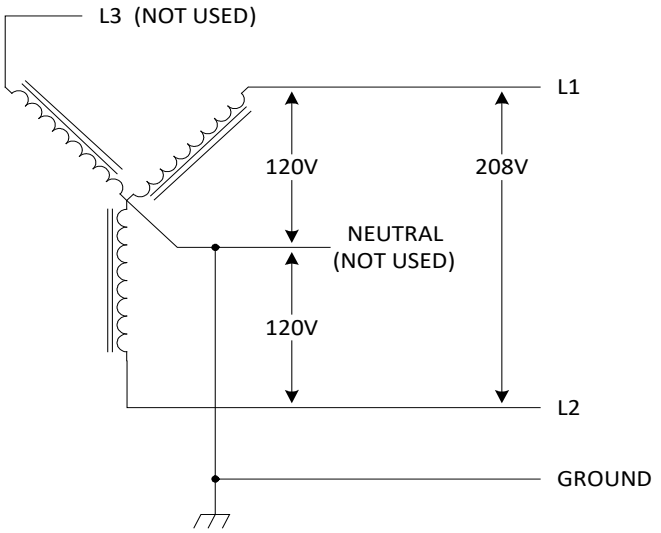


Figure 3: 208V 3-Phase, Wye-Connected

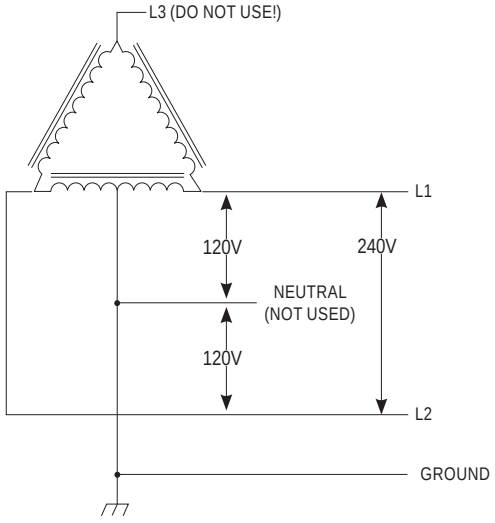


NOTE: With a wye-connected secondary, any two of the legs can be used to provide 208V to the HCS-D. For example, L1 & L2, or L1 & L3, or L2 & L3. Leave the unused leg open. Do not connect it to a Neutral bar, or to Ground. Be sure the center point is grounded to Earth somewhere in the system.

REMARQUE: Avec un transformateur étoile-connecté secondaire, deux des lignes peut être utilisé pour fournir 208V à la HCS-D. 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 système.

NOTA: Con un cable secundario conectado en estrella, se pueden usar dos de los cables para proporcionar 208V al HCS-D. Por ejemplo, L1 y L2, o L1 y L3, o L2 y L3. Deje el cable no utilizado abierto. No lo conecte a una barra Neutral, ni a Tierra. Asegúrese de que el punto central esté conectado a Tierra en algún lugar del sistema.

Figure 4: 240V 3-Phase, Delta-Connected, w/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 centretapped, 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. Ta 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 HCS-D*. No "Neutral" point is available to be connected to ground for ground-fault protection. The HCS-D 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 HCS-D*. Aucun point “Neutre” est disponible pour être connecté à Mise à la Terre pour protection de défaut à la terre. Le HCS-D 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 HCS-D.* 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

Locate the wall mounting location for the EVSE:

- On the hardwired HCS-D, the three service conductors are shielded by three feet of flexible conduit at the bottom of the unit. The HCS-D must be positioned such that this conduit can reach a nearby junction box.
- On the plug-in HCS-D, the NEMA plug head is connected by one foot of cable (including the plug head) to the bottom side of the HCS-D. The plug-in HCS-D 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” above the ground for indoor installations and 24” off the ground for outdoor installations. Ensure that the front panel indicators of the EVSE can clearly be seen by the user of the device.
- The HCS-D has two vertically aligned mounting holes spaced 17” apart, one each on the enclosure top and bottom. Use a ruler or template to mark hole locations on the mounting surface.



WARNING: For safety, always turn off input power to the EVSE at the circuit breaker panel prior to plugging it in or wiring it to the service lines. Likewise, turn off the circuit breaker prior to unplugging it or disconnecting the unit from the service lines.

AVERTISSEMENT: Pour sécurité, toujours désactiver le courant d’entrée de la station de recharge au niveau du disjoncteur du panneau avant de le brancher ou de câblage à les lignes de service. De même, coupez le disjoncteur avant de le débrancher ou déconnecter l’unité à partir des lignes de services.

ADVERTENCIA: Por seguridad, siempre apague la alimentación de entrada al EVSE en el panel del interruptor de circuito antes de enchufarlo o cablearlo a las líneas de servicio. Del mismo modo, apague el interruptor antes de desenchufarlo o desconectar la unidad de las líneas de servicio.

HCS-D EVSE Mounting for Hollow-Wall Construction

- Place the unit such that both mounting holes can take advantage of solid structural framing inside of the wall or a strong wall surface such as plywood.

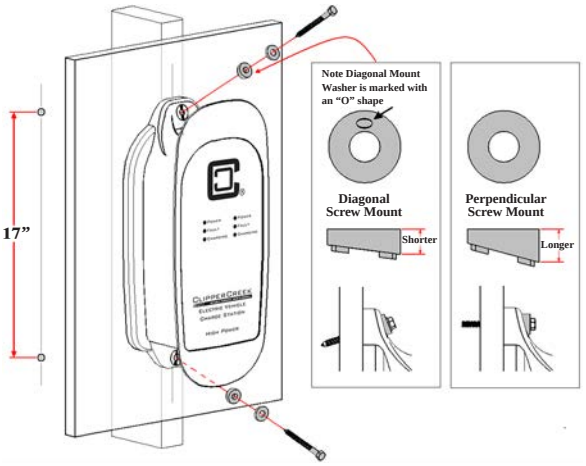
- Size ¼”- 20 lag screws are recommended for mounting the HCS-D to a wooden structure. Pre-drill appropriately sized pilot holes to allow the lag screw to grip the wooden structure while preventing the wood from cracking or splintering while the screw is fastened.

- The included plastic angle washers can be oriented to allow the lag screws to be fastened at an angle while still providing a solid flat backing to the screw head.

- If the screw head is smaller than the ⅜” washer aperture, an additional flat washer will need to be placed between the plastic angle washer and the head of the lag screw.

- If either mounting hole does not have a solid mounting structure (such as drywall without a solid backing) it will be necessary to use proper anchoring hardware such as drywall toggles or molly bolts.

Figure 5: Mounting the HCS-D to a Hollow-Wall



HCS-D EVSE Mounting for Solid-Wall Construction

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

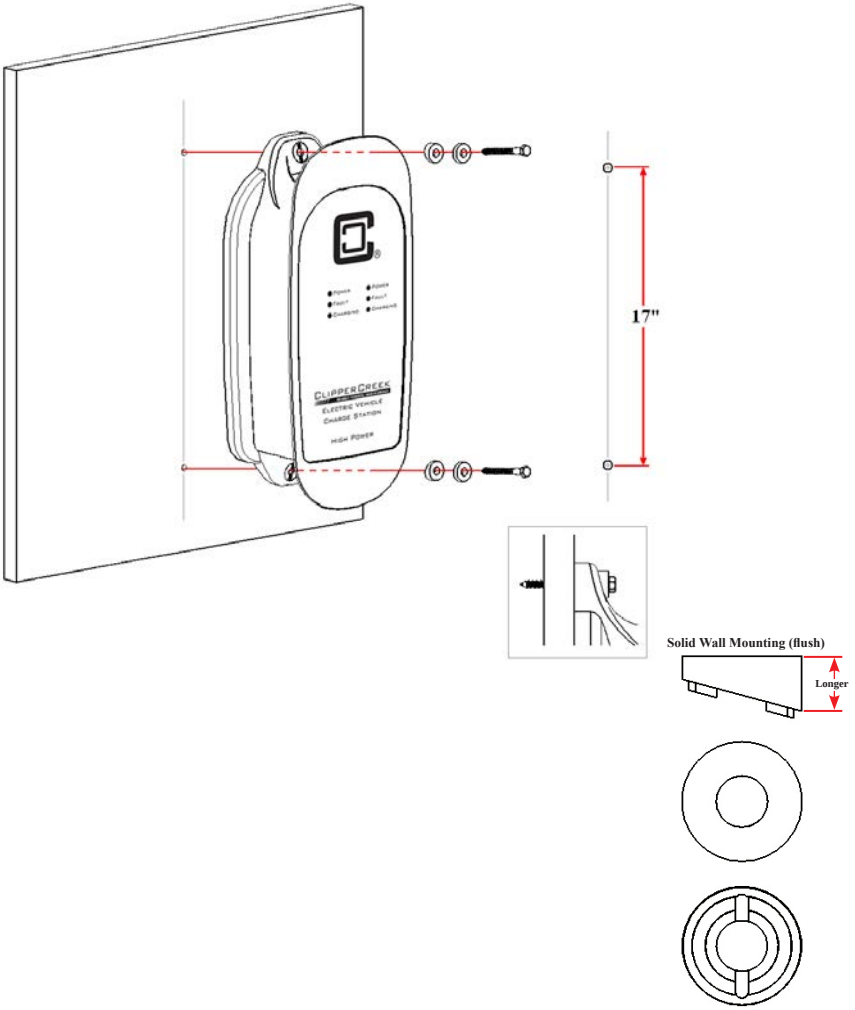
- To secure the unit in brick or stone, pre-drill appropriately sized holes and use sleeve anchors at both mounting points.

- The included plastic angle washers can be oriented to allow bolts to be fastened either at an angle or perpendicular to the mounting surface. **NOTE** there are two different sets of plastic angle washers included. Select those washers that best accommodate the mounting hardware "angle of attack" and orient them accordingly.

- **NOTE** that if the head of the mounting hardware is smaller than the ⅜" plastic angle washer aperture, an additional flat washer will need to be placed between the plastic angle washer and the mounting hardware.

- Machine screw size ¼" - 20 hardware is recommended for mounting the HCS-D. Screw shafts of at least 2" are recommended. The HCS-D plastic angle washer hole size is ⅜" in diameter, ensure the screw heads are of a larger diameter. Place appropriately sized washers between the screw heads and the HCS-D enclosure mounting flanges.

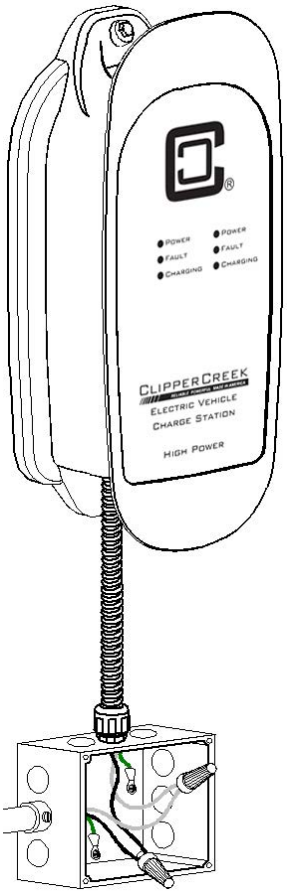
Figure 6: Mounting the HCS-D to a Solid-Wall



WIRING INSTRUCTIONS (Hardwired HCS-D)

Route the HCS-D conduit to a nearby junction box. Use the included ½" trade size watertight conduit fitting and sealing washer to provide a moisture-resistant seal between the conduit fitting and the junction box. If necessary, drill a ⅞" diameter hole to accommodate the conduit fitting. For outdoor installations, ensure the junction box is fully sealed using appropriate electrical grade silicone sealant.

Figure 7: Wiring the HCS-D in a Junction Box



Before connecting the HCS-D service conductors, please carefully read the section of this manual titled **Installation - Service Connections**. If unsure of the type of power provided at the service panel, please consult with the local utility or call a Service Representative for assistance.

NOTE: The three supplied HCS-D40 and HCS-D50 service conductors use stranded 8 AWG, 90ºC 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 de service HCS-D40, HCS-D50 fournis utilisent des câbles toronnés de calibre 8 AWG, 90ºC fil de cuivre.

L'isolation de chaque conducteur est un code couleur pour l'installation de 240V AC norme:

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 8 AWG y 90ºC.

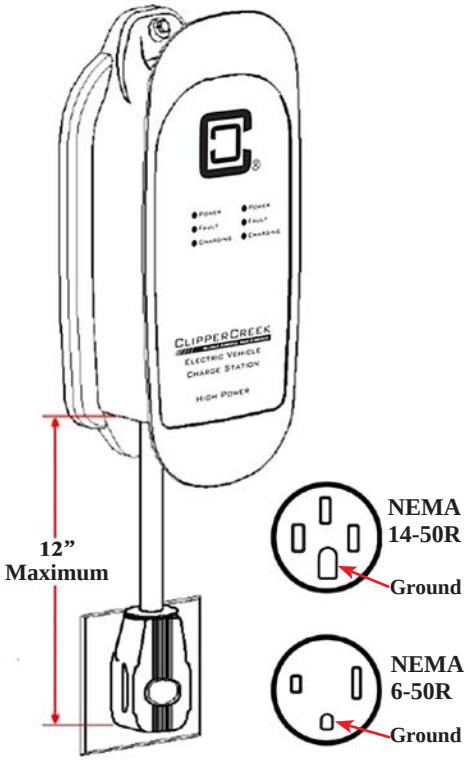
El aislamiento de cada conductor está codificado por colores para la instalación estándar de 240 VCA:

Verde: Tierra
Negro: Línea 1 (120V CA a tierra)
Rojo: Línea 2 (120V CA a tierra)

RECEPTACLE INSTRUCTIONS (Plug-In HCS-D)

The plug-in HCS-D is fitted with either a NEMA 14-50 or 6-50 plug extending from the bottom of the HCS-D enclosure. Regulations limit this plug to a maximum of 12 inches in length, including the plug head. For this reason, the plug-in HCS-D must be mounted above the NEMA receptacle and must also be located within 12 inches of it.

Figure 8: Preferred Orientation of the NEMA Receptacles Below the Plug-in HCS-D



In both NEMA 14-50P and 6-50P configurations, the ground pin is located at the furthest point on the plug.

It is recommended that a NEMA 14-50R or 6-50R receptacle be oriented accordingly, such that the ground socket is at the lowest point.

GROUNDING INSTRUCTIONS

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

HCS-D Hardwired EVSE Grounding

The hardwired HCS-D 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.

HCS-D Plug-in EVSE Grounding

The plug-in HCS-D is equipped with a supply 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 outlet, have a proper outlet 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 equipo conductor de conexión a tierra puede resultar un riesgo de descarga eléctrica. Consulte con un electricista calificado si tiene dudas sobre si el producto está correctamente conectado a tierra. No modifique el enchufe provisto con el producto. Si no encaja en el tomacorriente, haga que un electricista calificado instale un tomacorriente adecuado.

USING THE PADLOCK

A padlock with three keys is included with some ClipperCreek EVSE (when connector style permits lock hole). This rust-proof, solid brass padlock is to secure a vehicle's charge from being interrupted.

Figure 9: Locking the SAE J1772 Connector with Padlock Included

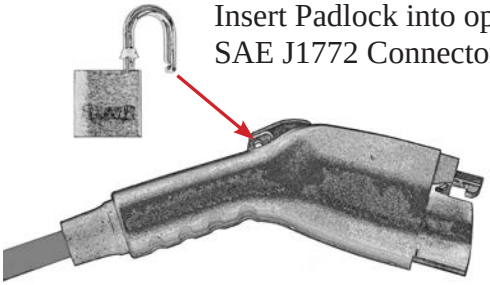


Figure 10: Charge Connector Secured with Padlock which Cannot be Removed from Vehicle without Key

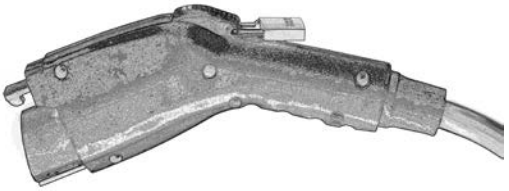


Figure 11: Padlock Used in Combination with Connector Holster After Charging

NOTE: This padlock can also be used in combination with our connector holster (also included) as a low cost access control solution. Refer to **Figure 11**.



MOVING & STORAGE INSTRUCTIONS

NOTE: The hardwired HCS-D and the plug-in HCS-D are intended for fixed installations. For mounting requirements, consult the **Mounting Procedures** section of the **Installation Instructions** in this manual.

Always turn off input power to the EVSE at the circuit breaker panel prior to hard-wiring an HCS-D to or disconnecting an HCS-D from the service lines. Likewise, always turn off input power to the EVSE at the circuit breaker panel prior to plugging an HCS-D into or unplugging an HCS-D from a NEMA socket.

When transporting the EVSE, do not lift or carry the entire unit by the charge cable. Likewise, do not lift or carry the entire unit by the flexible conduit and input conductors.

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

MAINTENANCE

The HCS 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.

MOUNTING THE SAE J1772 CONNECTOR HOLSTERS

The SAE J1772 connector holsters are included to provide a convenient protective housing for the SAE J1772 connector head when it is not in use.

- The SAE J1772 connector holster should be placed so that users have easy and safe access to the SAE J1772 connector.

- For indoor installation, mount the SAE J1772 connector holster between 18” and 48” above the ground or grade.

- For outdoor installation, mount the SAE J1772 connector holster between 24” and 48” above the ground or grade.

- The SAE J1772 connector holster has two vertically aligned mounting holes spaced 5.45” apart, one each on the enclosure top and bottom. Use a ruler or template to mark hole locations on the mounting surface.

- The vertical alignment of the HCS-D and connector holster mounting holes allows for the convenient mounting of both components onto the same post or wall structure. For example, the holster may be mounted directly above the HCS-D.

- Place the SAE J1772 connector holster such that both mounting holes can take advantage of solid structural framing inside of the wall or a strong wall surface such as plywood.

- A set of exterior wood screws and stainless steel washers are included for the purposes of mounting the SAE J1772 connector holster to a wooden surface.

- For mounting to a solid surface such as concrete, brick, or stone, alternate hardware may need to be procured. Examples of solid-wall mounting hardware include multi-sets, wedge anchors, and sleeve anchors. Use the type of mounting hardware most appropriate for the supporting structure.

Figure 12: Mounting the SAE J1772 Connector Holsters Using the Exterior Wood Screws and Washers

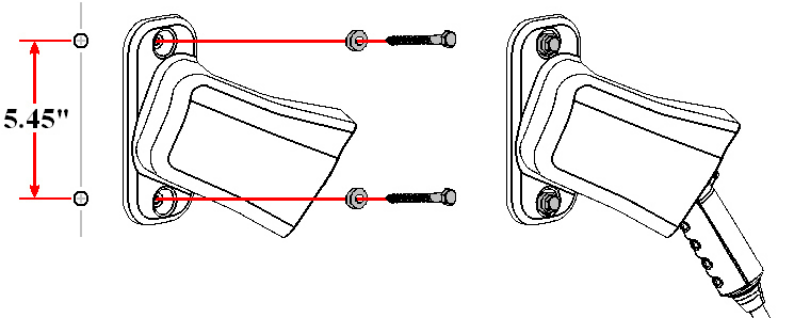


Figure 13: Example of Installed HCS-D and Two Connector Holsters

NOTE: Cable Cradle shown below is not included and is sold separately.

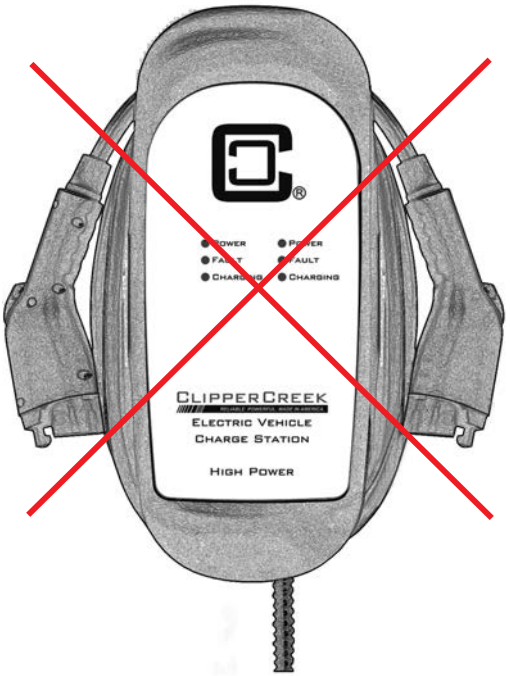


CHARGE CABLE WRAP GUIDELINES

The HCS-D enclosure body is sculpted to allow the charge cables to be wrapped around it for convenient storage as well as to keep the bulk of the cable off of the ground and out of the way. As the charge cable is comprised of a number of wires, coiling the charge cable too tightly around the HCS-D enclosure will result in the charge cable feeling warmer to the touch than would ordinarily be the case. **See Figure 14.**

To minimize this effect, it is recommended that the charge cable be loosely draped around the HCS-D enclosure body with larger loops. This will also permit greater convenience in "pulling off" additional loops if a longer charge cable reach is desired. **See Figure 13.**

Figure 14: Charge Cable Draped too Tightly Around the HCS-D Enclosure



CUSTOMER SUPPORT

Call a ClipperCreek Service Representative at any time, 24 hours a day, at the number below. **PLEASE HAVE THE MODEL NUMBER AND SERIAL NUMBER AVAILABLE WHEN CALLING.** This information is printed on the label on the side of the HCS-D enclosure. If a call is made after business hours or on weekends, please leave a name, telephone number, the unit serial number, and a brief description of the problem. A Service Representative will call back at the earliest opportunity.

Distributor Service Number Here

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

SPECIFICATIONS

Line Input Power Voltage & Wiring:

240V AC single-phase - L1, L2, and Safety Ground.
208V AC 3-phase wye-connected - Any two 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 ground. **Do not use the third leg (208V "Stinger").**

Supplied Input Conductors:

Pre-installed supplied input conductors of the HCS-D40, HCS-D40R, and HCS-D50: L1, L2 and Ground use 3 feet of 8AWG, 90ºC copper wire.

Voltage Range:

185V AC to 264V AC

Frequency:

60 Hz

CCID:

20mA

Current & Output Power: (at 240V AC)

HCS-D Model Number	Circuit Breaker	Max Current	Output Power	Cable Length
HCS-D40 (hardwired)	40A	32A	7.7 kW	25 ft (7.6m)
HCS-D40P + 6-50P	40A/50A	32A	7.7 kW	25 ft (7.6m)
HCS-D40P + 14-50P	40A/50A	32A	7.7 kW	25 ft (7.6m)
HCS-D40R (hardwired)	40A	32A	7.7 kW	25 ft (7.6m)
HCS-D40PR + 6-50P	40A	32A	7.7 kW	25 ft (7.6m)
HCS-D40PR+ 14-50P	40A	32A	7.7 kW	25 ft (7.6m)
HCS-D50 (hardwired)	50A	40A	9.6 kW	25 ft (7.6m)
HCS-D50P + 6-50P	50A	40A	9.6 kW	25 ft (7.6m)
HCS-D50P+14-50P	50A	40A	9.6 kW	25 ft (7.6m)

NOTE: that the maximum current for the vehicle is set by the duty cycle of the Pilot waveform. Output power is variable depending upon the HCS-D model and vehicle demand.

Plugs:

An attached NEMA 6-50P or NEMA 14-50P plug is available on the HCS-D40P, HCS-D40PR and HCS-D50P.

Dimensions:

Dimensions are for the enclosure only:
Height: 500 mm (19.7 inches)
Width: 225 mm (8.9 inches)
Depth: 135 mm (5.3 inches)

Weight:

HCS-D conduit with two 40A SAE J1772 connectors and 25' lengths of cable: 9.5 kg (21 lbs)
HCS-D plug with two 40A SAE J1772 connectors and 25' lengths of cable: 9.5 kg (21 lbs)
Ruggedized HCS-D40 plug with two 32A SAE J1772 connectors and 25' lengths of cable: 9.5 kg (21 lbs)

Environment:

Operating Temperature: -30°C to +50°C (-22°F to +122°F)
Storage Temperature: -40°C to +80°C (-40°F to +176°F)
Enclosure Rating: NEMA 4 - watertight

Agency Approvals:

ETL Listed, FCC Part 15 Class B, ENERGY STAR® Certified

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.

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

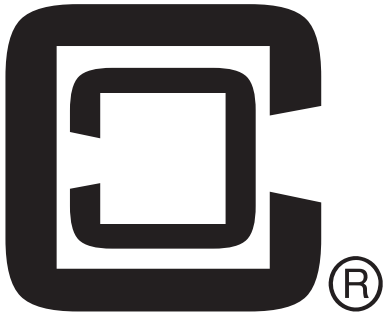
Subject to the terms and conditions below, Enphase Energy, Inc. (**"Enphase"**) provides the following limited warranty to the original purchaser of the products (**"Covered Owner"** or **"you"**):

Product 5-year parts, 5-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 5 years, commencing on the date of installation (first use) (the **"Warranty Period"**). Except where prohibited by applicable law, the product installation date must be evidenced and communicated to Enphase by way of the product 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.



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