

PowerPort Installation and Setup

FOR EV CHARGING STATION:
NUVVE POWERPORT 19kW (1 PHASE, J1772)



About the PowerPort

Nuvve single phase PowerPort is an AC charging station for electric vehicles, part number EVSE-B-P1-T1-H1-A080, with an SAE J1772 connector, is rated 19kW.

The enclosure is rated IP54; additional ventilation is not required.

PowerPort is supplied with an internal utility-grade meter.

About the Manual

This manual is only intended for use by licensed electricians. It is not intended to reflect all proper safety precautions. This document refers to specific versions of the product.

Note: Please check <http://nuvve.com/partner-portal/> for document updates before attempting installation. For the password, please reach out to the Nuvve Support Team (information below)

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MAINTENANCE INSTRUCTIONS

Your charger contains no user serviceable parts. Do not attempt to repair or service any part of the unit yourself. If the unit requires servicing, please contact Nuvve customer service.

The installation, maintenance, and servicing of your charger must only be performed by qualified personnel in accordance with applicable local regulations.

Protect your charger from any external impact.

Disconnect the main service power to your charger before cleaning the unit. Do not use cleaning solvents to clean any part of your charger. Use a clean, dry cloth to remove accumulated dust and dirt.

Nuvve Support Team

support@nuvve.com (Worldwide)

<http://support.nuvve.com> (Worldwide)

+1(619)369-0739, Opt. 2 (Mon-Fri 8AM-5PM, Pacific Time) (North America)

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Important Safety Information and Overview

SAVE THESE INSTRUCTIONS

WARNING: When using electrical products, basic precautions should always be followed. This manual contains important instructions for Nuvve PowerPort that shall be followed during installation, operation, and maintenance of the unit.

Please abide by the following:

- Read all instructions, warnings and updates before installing and using this device.
- Install and operate only as instructed. Failure to do so may lead to death, injury, or property damage, and will void the Limited Warranty
- This device should always be supervised when used around children.
- Do not put your fingers into the electric vehicle connector.
- Do not use this device if the flexible power cord or EV cable is frayed, has broken insulation, or has any other signs of damage. Call Nuvve support immediately.
- Do not use this device if the enclosure or the EV connector is broken, cracked, opened, or shows any other indication of damage. Call Nuvve support immediately.
- Only use a licensed electrician to install and use a trained installation expert to ensure compliance with local building and electrical codes and standards, climate conditions, safety standards and all applicable codes and ordinances.
- Inspect the charging station for proper installation before use.
- Failure to install on a surface that can support the weight of the device can result in death, personal injury, or property damage.
- This device is not suitable for use in hazardous locations. Do not install unit near flammable, explosive, or combustible materials.
- Do not operate the device in temperatures outside its operating range which is listed on the plate (sticker on the unit).
- The device does not contain any field serviceable parts. Do not attempt to repair or service any other part of the unit yourself. If the unit requires servicing, contact Nuvve support.

Critical setting: PowerPort has an internal setting to limit the current draw from the EV. The installing electrician must set this properly not to exceed the building circuit's rating and the installed connector. See section **CRITICAL SETTING: CURRENT LIMIT** on page 7.

Critical setting: The torque of connectors on the supply connection to the Nuvve PowerPort must follow recommended torque. See the section **CONNECTING POWER AND INTERNET** on page 8.

Important: Supplied 'On-site Commissioning Checklist' (one per charging station) shall be completed, signed, and submitted with the supporting information to support@nuvve.com after energizing the equipment. Failure to provide the completed Checklist and supporting information may void the Limited Warranty and limit support eligibility.

Follow all applicable safety standards, building codes, and electrical codes. In the US, see NEC 625. This unit provides ground fault circuit protection. The circuit breaker feeding this unit should not have ground fault protection. The use of adapters, conversion adapters, and extension cords are strictly forbidden with this equipment.

Always use proper lockout and tag-out precautions and comply with all national and local codes. Please review these instructions carefully before you begin the installation.

Product Disposal Inquire with local authorities regarding proper disposal or contact Nuvve support.

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Package Contents

Check the package to ensure you have all the guides and parts listed below:

Note: If you are missing any of these parts, request Nuvve Support.

- EVSE-B with cable and hanger attached,
- PowerPort Installation and Setup Manual (this document),
- On-site Commissioning Checklist,
- User Quick Start sheet.
- Optional: Wi-Fi Set-Up Instructions (if Wi-Fi NanoStation was purchased)
- Optional: 4GLTE-Wi-Fi Set-Up (if 4G Modem was purchased)
- Optional: Pedestal Assembly Manual (if Pedestal was purchased)

Unpacking

- Unpack the shipping carton.
- Place the unit on a flat and steady surface.
- Remove the three Torx 25 bolts holding the front cover on.
- Remove the cover by sliding it up a bit, then disengage away from the back case.
- **Important.** Move slowly as there is a fragile ribbon cable attached inside.
- Unplug the front panel display flex / ribbon cable from the green board. Please note the orientation of the connector.
- Place the top cover to the side, as shown in **Figure 1**, being careful not to scratch the paint.



Figure 1a. PowerPort Built Version 2.1



Figure 1b. PowerPort Built Version 2.2

Open case displaying light green ribbon and ground cables attached to the cover, EV cable connected on the right side. This image also shows the main power cable connected.

POWERPORT BUILT VERSION 2.1	POWERPORT BUILT VERSION 2.2
Green Board Version: 5.3C	Green Board Version: 6.4
RCD Board Version: V6	RCD Board Version: V8
Red Board Version: TS-7600-128-8F	Red Board Version: TS-7600-128-8F

Required Tools

- Torx T-25 screwdriver
- Flat-head screwdriver

PLAN THE LOCATION BEFORE BEGINNING WORK

Check the site for appropriate mounting location and electrical capacity

1. Ensure the owner has chosen an installation location that allows the charging cable to reach the vehicle's charging port while still providing slack. Ensure there is a stud available at the desired location for mounting the charging station. If applicable, ensure there is Wi-Fi signal available.
Note: outdoor installation is an option, but requires a weather-resistant hardwired installation.
2. Consult all applicable codes for breaker and wire sizing requirements.
WARNING: in areas with frequent thunderstorms, add surge protection at the service panel for all circuits. Ensure all power and ground connections, especially those at the breaker and bus bar, are clean and tight. Remove all oxide from all conductors and terminals before connecting wiring.
3. Follow all applicable codes and ordinances and pull a permit for completing the electrical work as required.

Critical Setting: Current Limit

Important: A dedicated branch circuit should be used for each installed PowerPort.

PowerPort will be shipped with the Factory Default Setting for the current limit. Factory Default Setting can be used when the Branch Circuit Protector Size (amperes) and Minimum Cord Set Rating (amperes) are met.

For **Nuvve PowerPort 19kW** (part number EVSE-B-P1-T1-H1-A080) the Factory Default Setting is for:

- Minimum Cord Set Rating: 80A
- US NEC Branch Circuit Protector Size: 100 A
- UK / EU Branch Circuit Protector Size: 80 A

If the Default Factory Setting could not be used, please refer to the **APPENDIX 1. Advanced Current Limit Settings** for advanced setup.

Physical Mounting

WALL MOUNTING

Secure the case back of the PowerPort to the wall in the desired location. IEC standards for charging stations require that the cord hanger, or the receptacle, shall be located between 0.4 m and 1.5 m above ground level. In addition, North American standards require mounting the EVSE at least 460 mm (18 inches) above the floor in environments with flammable vapor, such as automotive garages.

Use a fastener appropriate for the mounting surface and attach the case back through the top middle mounting hole only. Next, level the back panel, then secure it through the remaining mounting holes.

PEDESTAL MOUNTING

A separate accessory kit (Pedestal) may be ordered for mounting the PowerPort in a location without a wall surface.

Please refer to the Pedestal Assembly Manual if a pedestal was purchased.

Please contact the Nuvve Support Team (<http://support.nuvve.com> or support@nuvve.com) for more information about available purchase options.

Connecting Power and Internet

Install a conduit for the power and internet connections. You may use the knockouts provided on the bottom (**Figure 2**) or the back of the case.



*Figure 2a. Knockouts at the bottom of the unit
(PowerPort Built Version 2.1)*



*Figure 2b. Knockouts at the bottom of the unit
(PowerPort Built Version 2.2)*

INTERNET CONNECTION

The Nuvve PowerPort charger requires an internet connection to properly communicate with the GIVe™ platform.

If the customer uses a firewall and has port filtering activated, please ask for Nuvve's assistance (<http://support.nuvve.com>) on the list of ports to be opened and IP to be whitelisted for the proper network connection.

Option 1: Wired Connection

The wired internet connection requires a connection to a local internet router. The internet cable should have an RJ45 connector plugged into the top of the unit's red circuit board (the blue cable on **Figure 3a**).

Note: Some jurisdictions require that the ethernet cable be routed in a separate conduit available at the back or bottom. However, it may be acceptable to run ethernet cable wire-tied outside the power conduit for interior wiring. Consult all applicable safety standards, building codes, and electrical codes.



Figure 3a. RJ45 cable connected to the internet port of the red circuit board (Built Version 2.1, Green board Version 5.3C)



Figure 3b. RJ45 cable connected to the internet port of the red circuit board (Built Version 2.2, Green board Version 6.4)

Option 2: Wireless Connection

If no wired internet connection is available, you can use either Wi-Fi or cellular connection. Please refer to the Wi-Fi Set-Up Instructions (if Wi-Fi NanoStation was purchased) or 4GLTE-Wi-Fi Set-Up (if 4G Modem was purchased).

Note: Nuvve will provide the documentation and instructions; however, a third party will support the Wi-Fi / 4GLTE devices.

A Wi-Fi NanoStation or 4GLTE-Wi-Fi may be ordered for connecting the PowerPort to the internet. Please contact the Nuvve Support Team (<http://support.nuvve.com> or support@nuvve.com) for more information about these options.

POWER CONNECTION

Single Phase Nuvve PowerPort 19kW

Connect a dedicated 120V (level I) or 208 – 240V (level II) over-current-protected service to the two terminals, marked “L1” and “L2/N” on **Figure 4**. Connect the ground wire to the smaller terminal marked “G.”

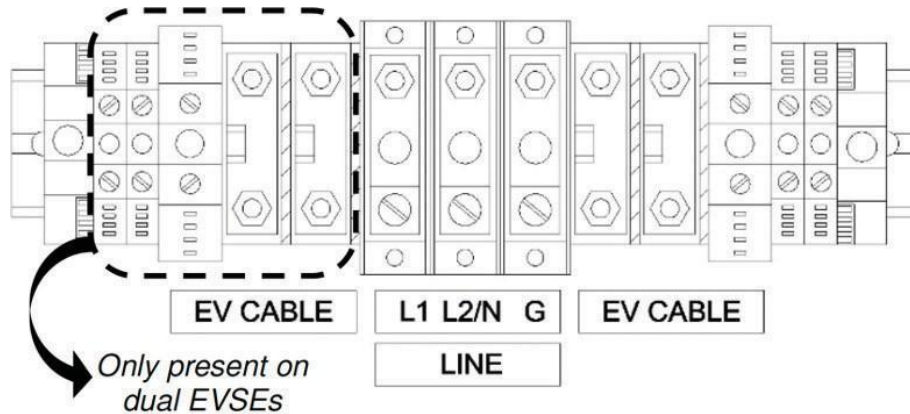


Figure 4. Single phase power connection terminals

WARNING: Critical setting: The three screw terminals for line power (above-marked L1, L2/N, G) must be torqued according to the wire size, as shown in the Table 1. Torque units are given in inch-pounds (in-lb) and Newton meters (N·m).

WIRE SIZE	TORQUE
AWG 2 (34 mm ²)	50 in-lb (5.6 N·m)
AWG 8 (5-10 mm ²)	45 in-lb (5.1 N·m)
AWG 8 (5-10 mm ²)	40 in-lb (4.5 N·m)
AWG 10-14 (2-5 mm ²)	35 in-lb (4 N·m)

Table 1. Wire size - torque matrix

Terminals to the right should already be connected to the EV cable. If they are not, they must be connected before this operation and correctly torqued.

Attaching the Front Cover

Important: before attaching the front cover of the PowerPort, make sure that Steps 1 to 15 of the On-Site Commissioning Checklist are completed.

- Connect the ribbon cable and ground wire, ensuring they are not pinched when the case closes. Please see **Figure 1** for proper connection of the green ribbon cable.
- Install the front cover on the back panel. Engage the top flange of the front cover over the top edge of the back panel. Ensure the display connector wire is not pinched by the cover. Ensure the cover mounting holes align with holes in the bottom flange of the back panel.
- Secure the cover with the 3 Torx screws provided.
- When it is safe, remove the lockout tag-out and energize the PowerPort.

Testing

FRONT PANEL LED INDICATORS

- The Power indicator light should illuminate when the unit is powered up.
- The Charging indicator light should be off.
- The Error light will blink red for approximately 30 seconds each time the EVSE powers up. After the error light goes out, an EV can be plugged in.
- The Internet light should illuminate. Solid blue means unit is properly connected both locally and to the Nuvve server.
 - If the internet has not been set up correctly, the blue internet light may blink, indicating that PowerPort is connected locally (for example, to a router), but is not communicating with the Nuvve server. Please reach out to the Nuvve Support Team.

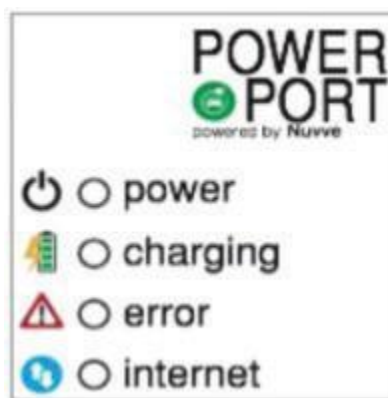


Figure 6. Front cover LED indicators

CHARGING TEST

- Connect the cord and connector from the PowerPort to an electric vehicle.
- **Note:** For user education, the preferred scenario would be to perform the test with the vehicle that is to be charged at this location in the future, with the vehicle owner or a site manager present.
- After a few seconds, the amber charging light should illuminate, indicating that the EVSE is charging the vehicle. Charging should work independently of the proper internet setup.
- Charge vehicle for 5 minutes. Repeat charging test two times.
- Complete the On-Site Commissioning Checklist and have installer submit with the supporting documentation and per the instructions on the Checklist.

Moving and Storage

WARNING. An installed PowerPort is directly connected to the electric system and should be removed only by a qualified electrician. Additionally, care should be taken to protect the unit from physical and cosmetic damage when moving or storing the unit. In addition, the unit must be kept dry during storage and within the storage temperature of -40°F to 158°F (-40°C to 70°C). The charger should never be lifted or carried by the power supply cord or by the EV cable. Always lift or carry the charger by lifting up the charger's enclosure. The charger is only to be used for fixed installations and cannot be used as a portable device.

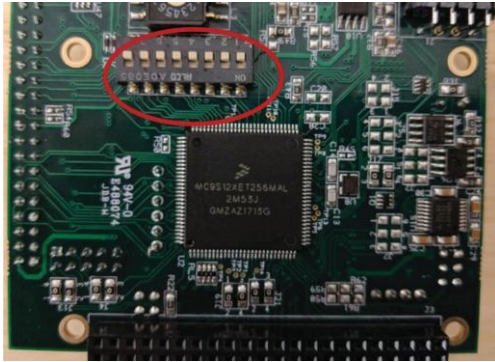
Ground Fault Protection

PowerPort has an integral 20mA AC ground fault protector. In the event of excessive ground fault current, the EVSE will disconnect power to the vehicle, and the error light will blink red. Then, it will retry to restore service up to five times, waiting more time for each retry. If the ground fault persists after that, the EVSE will remain in the faulted state with the error light blinking red.

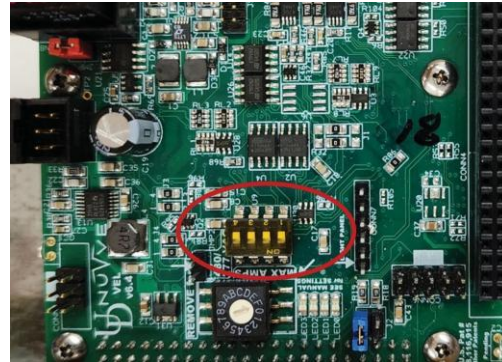
To manually reset the fault (if automatic attempts fail), the user must disconnect the charging connector from the vehicle, wait five minutes, then reconnect the cable to the vehicle. Alternatively, the power to the EVSE may be cycled off and then on.

If the problem persists, please contact the licensed electrician who installed your unit and contact Nuvve Support Team.

CRITICAL SETTING: GROUND FAULT RETRY. If PowerPort is installed in any of these countries: China, Denmark, France, or United Kingdom, where national codes prohibit automatic retry after a ground fault, the installer must ensure that dip switch 4 is set to “on.” The “on” setting prevents any automatic retry. Thus, the user must disconnect the EV cable, wait, and plug it back in to achieve a retry after a fault.



*Figure 7a. DIP Switch location for PowerPort
Built Version 2.1*



*Figure 7b. DIP Switch location for PowerPort
Built Version 2.2*

Appendix 1. Advanced Current Limit Settings

Any EVSE, by cross-industry standards, must signal to the EV the maximum charging current the EV can draw. The EV is then responsible for limiting the current.

In PowerPort, the maximum current is a fixed, built-in number set during manufacturing. This is determined using component ratings that correspond to the last number in the SKU (for example, 80 Amps for an SKU ending with “-A080”). With the switch in its initial setting of “F,” the factory-set maximum current is used. If the field electrician needs to change this maximum (for example, if the branch circuit rating is too small or if the EV cable is replaced with a lower-amp cable), the electrician can alter the built-in maximum by turning the rotary switch as explained in **Critical Setting: Current Limit** section on page 7. This will override the Default Factory Setting.

Additionally, if PowerPort is being used for grid services, a Nuvve-trained EVSE Technician shall be called to inspect and add or change the maximum current (please reach out to the Nuvve Support Team to arrange this call). In this case, the Nuvve-trained EVSE Technician's setting overrides the factory setting.

INSUFFICIENT AMPERE CAPACITY ON BRANCH CIRCUIT

If the installation location branch circuit protector size or minimum cord set rating for the factory default setting could not be met, the current limit setting needs to be adjusted.

Setting the Current Limit

- With the PowerPort **disconnected from the power**, remove the green “VEL” board that is held down by four small screws and pull-out a 54-pin connector (may require a firm pull). Then, turn the VEL board over.
- On the back side of the board find the rotary switch, with positions 0 through F (**Figure 7a**). As manufactured, it should be set to “F,” meaning Default Manufacturer Setting.

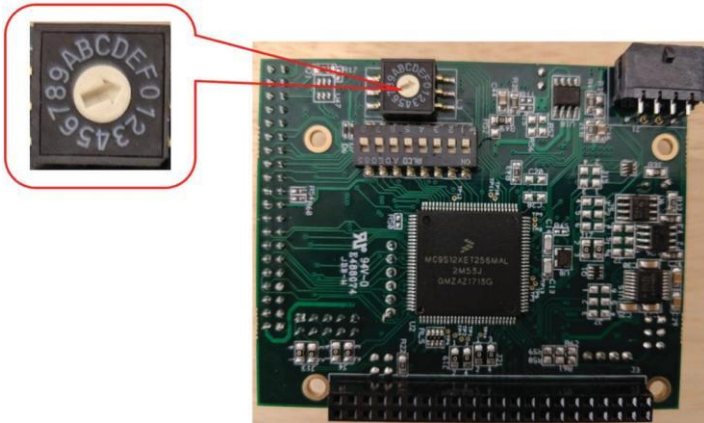


Figure 8a. . Current Limit Control Dial (Built Version 2.1, Green board Version 5.3C)

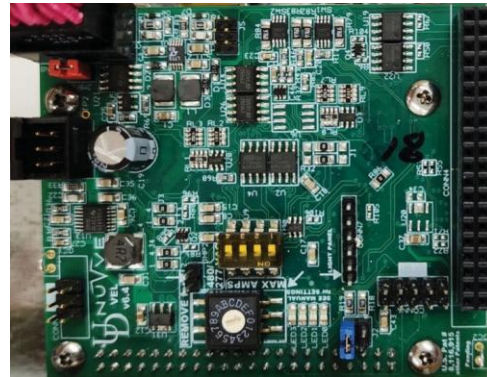


Figure 8b. Current Limit Control Dial (Built Version 2.1, Green board Version 6.4)

- Determine your installation’s branch circuit protector (breaker) size and cordset rating and in the **Table 2** on page 15, pick a line that corresponds to the minimum value of either. Be sure to choose the correct column for breaker size, either for a US NEC breaker or UK/EU breaker.
- Set the arrow of the rotary switch, using a small flathead screwdriver, to point the arrow to the number or letter in the column “Dial Position” below. This sets the maximum amps that the PowerPort will allow the EV to charge.
- If changed, use a permanent marker to update the input and output amp ratings on the label located on the side of the case (please refer to **Figure 9** as an example).

Manufacturer: Nuvve Holding Corp
Model #: EVSE-B-P1-T1-H1-A080
Input: 100-240VAC, 1 Phase, 50/60Hz,
Max: 100A branch protector @ 80A continuous
Supply: 2-wire + ground from Split-phase, Wye,
 or Delta (any phase)
Output: 100-240VAC, 50/60Hz, 80A
 continuous on each hose
Enclosure: NEMA Type 3R
Short Circuit Rating: 5000A

Figure 9. PowerPort’s side of the case label example

REPLACING A CABLE WITH ONE OF A DIFFERENT CAPACITY

If a charging cable to EV is being replaced:

- Determine the new cable and connector ratings.
Note: Rating is normally printed on the side of a cable and a connector.
- Determine branch circuit protection rating.
- Look up cable and breaker amps in **Table 2** below to find the dial position number or letter.
- Set the dial position as shown below (see **Critical Setting: Current Circuit** on page 7).

MINIMUM CORDSET RATING (AMPERES)	US NEC BREAKER SIZE (AMPERES)	UK / EU BREAKER SIZE (AMPERES)	DIAL POSITION
12	15	13	0
16	20	16	1
20	25	20	2
24	30	25	3
32	40	32	4
40	50	40	5
48	60	50	6
56	70	-	7
63	80	63	8
72	90	-	9
80	100	80	A
Reserved			B, C, D, E
Factory Default Settings			F

Table 2. Dial position for Current Limit Settings reference

Version Française

À PROPOS DU MANUEL

Ce manuel est uniquement destiné à être utilisé par des électriciens agréés. Il n'est pas destiné à refléter toutes les précautions de sécurité appropriées. Ce document se rapporte à des versions spécifiques du produit.

Remarque : Veuillez consulter <http://nuvve.com/partner-portal/> pour les mises à jour des documents avant de procéder à l'installation. Pour demander le mot de passe, veuillez contacter l'équipe d'assistance Nuvve (informations ci-dessous)

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ÉQUIPE DE SUPPORT NUVVE

- support@nuvve.com (dans le monde entier)
- <http://support.nuvve.com> (dans le monde entier)
- +1(619)369-0739, Opt. 2 (du lundi au vendredi de 8 h 00 à 17 h 00, heure du Pacifique) (Amérique du Nord)

INFORMATIONS DE SÉCURITÉ IMPORTANTES ET APERÇU - CONSERVEZ CES INSTRUCTIONS

AVERTISSEMENT : lors de l'utilisation de produits électriques, des consignes de sécurité élémentaire doivent toujours être suivies. Ce manuel contient des instructions importantes pour Nuvve PowerPort qui doivent être respectées lors de l'installation, du fonctionnement et de la maintenance de l'unité.

Veuillez observer les points suivants :

- Lisez toutes les instructions, avertissements et mises à jour avant l'installation et l'utilisation de cet appareil.
- Installez et utilisez uniquement selon les instructions. Ne pas le faire peut entraîner la mort, des blessures ou des dommages matériels et annulera la garantie limitée.
- Cet appareil doit toujours être surveillé lorsqu'il est utilisé à proximité d'enfants.
- Ne pas mettre vos doigts dans le connecteur du véhicule électrique.
- Ne pas utiliser cet appareil si le cordon d'alimentation flexible ou le câble VE est effiloché, a une isolation brisée ou présente tout autre signe de dommage. Appelez immédiatement l'assistance Nuvve.
- Ne pas utiliser cet appareil si le boîtier ou le connecteur VE est cassé, fissuré, ouvert ou présente toute autre indication de dommage. Appelez immédiatement l'assistance Nuvve.
- Faites appel uniquement à un électricien agréé pour installer et faites appel à un expert en installation qualifié pour garantir la conformité aux codes et normes locaux en matière de construction et d'électricité, aux conditions climatiques, aux normes de sécurité et à tous les codes et ordonnances applicables.
- Inspectez la station de recharge pour vous assurer qu'elle est correctement installée avant utilisation.
- Ne pas installer l'appareil sur une surface pouvant supporter le poids de l'appareil peut entraîner la mort, des blessures ou des dommages matériels.
- Cet appareil ne convient pas à une utilisation dans des endroits dangereux. N'installez pas l'appareil à proximité de matériaux inflammables, explosifs ou combustibles.
- Ne pas utiliser l'appareil à des températures en dehors de sa plage de fonctionnement indiquée sur la plaque (autocollant sur l'appareil).
- L'appareil ne contient aucune pièce réparable sur site. N'essayez pas de réparer ou d'entretenir toute autre partie de l'appareil vous-même. Si l'unité nécessite une réparation, contactez l'assistance Nuvve.

Paramètre critique : PowerPort dispose d'un paramètre interne pour limiter la consommation électrique du VE. L'électricien installateur doit le régler correctement pour ne pas dépasser la valeur nominale du circuit du bâtiment et le connecteur installé. Voir la section **RÉGLAGE CRITIQUE : LIMITE DE COURANT** à la page 9.

Paramètre critique : le couple des connecteurs sur la connexion d'alimentation au Nuvve PowerPort doit être conforme au couple recommandé. Consulter la section **CONNEXION ÉLECTRIQUE ET INTERNET** à la page 11.

Important : La « liste de contrôle de mise en service sur site » fournie (une par borne de recharge) doit être complétée, signée et soumise avec les informations à l'appui à support@nuvve.com après la mise sous tension de l'équipement. Le fait de ne pas fournir la liste de contrôle complétée et les informations complémentaires peut annuler la garantie limitée et limiter l'éligibilité à l'assistance.

Suivez toutes les normes de sécurité, codes du bâtiment et codes électriques applicables. Aux États-Unis, voir NEC 625. Cette unité assure une protection des circuits contre les défauts à la terre. Le disjoncteur alimentant cette unité ne doit pas avoir de protection contre les défauts à la terre. L'utilisation d'adaptateurs, d'adaptateurs de conversion et de rallonges est strictement interdite avec cet équipement.

Utilisez toujours les précautions appropriées en matière de verrouillage et d'étiquetage et respectez tous les codes nationaux et locaux. Veuillez lire attentivement ces instructions avant de commencer l'installation.

Élimination du produit Renseignez-vous auprès des autorités locales concernant l'élimination appropriée ou contactez l'assistance Nuvve.

CONTEXTE CRITIQUE : LIMITE ACTUELLE

Important : Un circuit de dérivation dédié doit être utilisé pour chaque PowerPort installé. PowerPort sera expédié avec le paramètre d'usine par défaut pour la limite de courant. Le réglage d'usine par défaut peut être utilisé lorsque la taille du protecteur de circuit de dérivation (ampères) et la valeur d'intensité nominale minimale du jeu de cordons (ampères) sont respectées.

Pour **Nuvve PowerPort 19 kW** (numéro de pièce EVSE-B-P1-T1-H1-A080), le paramètre d'usine par défaut est le suivant :

- Valeur d'intensité nominale minimale du cordon : 80 A
- Taille du protecteur de circuit de dérivation US NEC : 100 A
- Taille du protecteur de circuit de dérivation Royaume-Uni/UE : 80 A

Si le paramètre d'usine par défaut n'a pas pu être utilisé, veuillez vous reporter à **l'ANNEXE 1. Paramètres avancés de limite** de courant pour une configuration avancée.

Raccordement électrique

Nuve PowerPort monophasé 19 kW

Connectez un service dédié de 120 V (niveau I) ou 208 – 240 V (niveau II) protégé contre les surintensités aux deux bornes marquées « L1 » et « L2/N » sur la figure 4. Connectez le fil de terre à la plus petite borne marquée « G ».

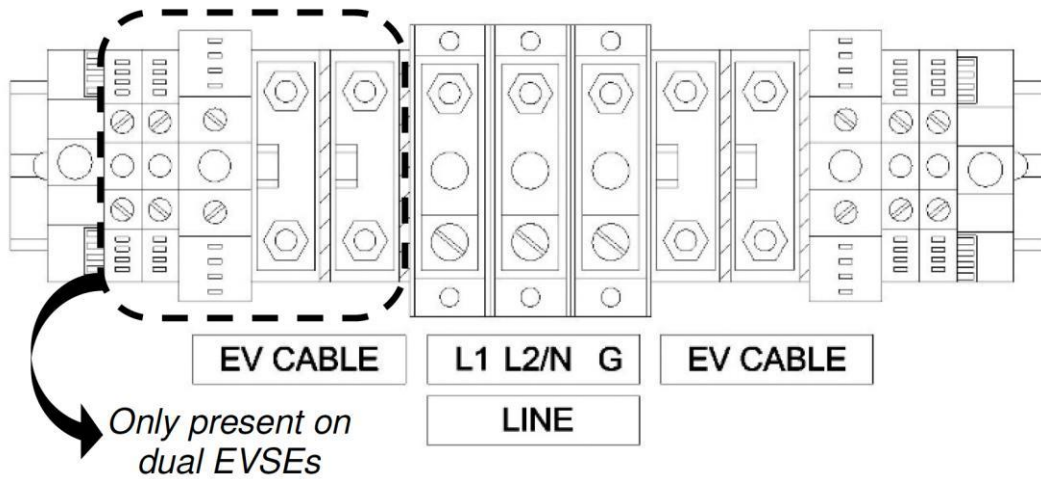


Figure 1. Single phase power connection terminals

AVERTISSEMENT : réglage critique : les trois bornes à vis pour l'alimentation secteur (marquées ci-dessus L1, L2/N, G) doivent être serrées selon la taille du fil, comme indiqué dans le tableau 1. Les unités de couple sont indiquées en pouces-livres (en -lb) et Newton mètres (N•m).

Wire Size	Torque
AWG 2 (34 mm²)	50 in-lb (5.6 N•m)
AWG 4-6 (10-25 mm²)	45 in-lb (5.1 N•m)
AWG 8 (5-10 mm²)	40 in-lb (4.5 N•m)
AWG 10-14 (2-5 mm²)	35 in-lb (4 N•m)

Table 1. Wire size - torque matrix

Les bornes de droite doivent déjà être connectées au câble VE. Si ce n'est pas le cas, elles doivent être connectées avant cette opération et correctement serrées.