



Ampure Go™ Gen 2

Portable Level 2 EV Cordset

A NOTE ON CUSTOMER SUPPORT

Please have your serial number ready

when contacting customer support.

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IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

WARNING:

When using electric products, basic precautions should always be followed, including the information listed on the following pages.

This manual contains important instructions for the Ampure Go Gen 2 Mobile Charger that should be followed during installation, operation and maintenance of the charger.

Section 1 – Introduction

SYMBOL USAGE

- DANGER**  Indicates information about safety practices which, if not followed, may result in serious injury or death.
- DANGER**  Risk of electric high or hazardous voltage – Parts inside this product are a risk of high or hazardous voltage to persons.
- WARNING**  Indicates information about safety practices which, if not followed, could result in personal injury or are necessary to prevent thermal event or equipment overheating.
- CAUTION**  Indicates information about operating instructions which, if not followed, may result in damage to the charger.
-  Do not operate the Ampure Go on an ungrounded power grid (e.g. IT networks). Only operate the Ampure Go on grounded power grids.
-  Operating the charger at altitudes higher than 13,123 ft (4,000 m) above sea level is not recommended.
- NOTE**  Indicates helpful information for installation or usage, but does not contain personnel or equipment safety-related information.

ABOUT YOUR AMPURE GO GEN 2 MOBILE CHARGER

The Ampure Go Gen 2 Mobile Charger is an easy-to-use, compact portable power supply for your electric vehicle. The charger supplies and manages AC power to your electric vehicle and is compatible with a variety of battery electric vehicles and plug-in hybrids. The charger operates from a 120-240 VAC (Single Phase or Split Phase) 50-60 Hz power source. Key Features include:

- Compact-sized portable power supply, compatible with a variety of battery electric vehicles
- Easy to use – simply plug it in and begin charging.
- Overheating, overvoltage and overcurrent protection
- Quick-read status indicators
- Multiple grid cords are available
- UL certified according to established regulatory bodies
- RoHS and REACH Compliant

WARNING



This product must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric high or hazardous voltage. This product is equipped with a grid cord having an equipment grounding conductor and a grounding plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING



Improper connection of the electrical outlet grounding conductor might result in a risk of electric high or hazardous voltage. Check with a qualified electrician if you are uncertain whether or not the electrical outlet is properly grounded. Do not modify the plug provided with the product if it does not fit in the outlet. Have a proper outlet installed by a qualified electrician.

WARNING



625.54 Ground-Fault Circuit-Interrupter Protection for Personnel
All single-phase receptacles installed for electric vehicle charging that are rated at 240 volts or less to ground or less and 50 amperes or less should have a ground-fault circuit-interrupter protection.

625.56 Receptacle Enclosures

All receptacles installed in a location with the potential for becoming wet should have a weather-proof enclosure with the attachment plug cap inserted or removed.

WARNING



Do NOT DROP the control box or coupler. Do NOT use if stored outside the temperature range specified.

WARNING



If the coupler cable becomes separated from the control box or the charger coupler, DO NOT ATTEMPT TO REPAIR THE CABLE YOURSELF. If you purchased your Ampure Go at an auto dealership, please contact the dealership. Otherwise, please contact Ampure Customer Support (see page 2).

WARNING



When using your Ampure Go, basic precautions should always be followed, including the following:

- Read all warnings and all instructions in this guide before using this product.
- Never use the charger with an extension cord.
- Do not plug the charger adapter into worn or severely degraded power outlets.
- High or hazardous voltage hazard – be sure the plug is fully inserted into the wall outlet so there are no exposed blade surfaces.
- Children should be supervised when in the vicinity of the charger while plugged in.
- Do not put your fingers into the electric charger coupler.
- Only connect the charger to a circuit with 50 amps maximum branch circuit overcurrent protection in accordance with NEC and local electrical code.

WARNING



WARNING – Do not plug the charger into an electrical outlet submerged in water or covered in snow.

WARNING – Do not use the charger if the charger is submerged in water or snow.

WARNING – Do not use the charger during a severe rain, snow or an electrical storm.

WARNING – Avoid moisture, water, snow and foreign objects at all times.

WARNING – If the charger has been immersed in water or subjected to severe snow, allow sufficient drying period before reuse (24 hours or more).

CAUTION



This product will not charge and will give a fault indication if ground is not present. Do not replace the plug with retrofit (aftermarket) component – there are critical safety devices in the plug, and the device will not operate if it is replaced.

Do not modify. This charger contains no user modifiable / repairable parts, even for experts. Keep the charger/charge cable inside when not in use (out of the elements / inside the garage is acceptable). Do not use any third party grid cords, as this can lead to potential failure. Use only plugs offered from Ampure with an approved outlet.

CAUTION



CAUTION: Do not connect or disconnect the grid cord from the control box while it is in use or charging, i.e., the grid cord plug is connected to the power outlet or the vehicle connector coupler is engaged to a vehicle inlet.

CAUTION: Do not operate the charger in a temperature outside its operation range of -22°F to +122°F (-30°C to +50°C).

CAUTION: Store the charger in a clean dry place in a temperature range between of -22°F to +185°F (-30°C to 85°C).

U.S. LABELS

Technical Specifications →

Information →

Warnings →

CCID Caution

Input/Output Rating Consumption/ Rendement Calificación eléctrica de entrada/ Calificación eléctrica de salida.	120-240V AC 50-60 Hz, MAX 32A. See Adapter Plug. Vous voyer la fiche de l'adaptateur. / Ve el enchufe del adaptador.	
Temperature Rating/ Cote de température/ Calificación de temperatura	-30C to 50C -22F to 122F	
Type/La Catégorie/Tipo	6, IP67	

Read owners manual before operating. / Vous lisez le
manuel de l'utilisateur avant d'utiliser. / Lee el manual
del propietario antes de operar.

**WARNING/
AVERTISSEMENT/
ADVERTENCIA**

- This device is intended only for charging vehicles not requiring ventilation during charging. / Cet appareil est uniquement destiné à charger des véhicules ne nécessitant pas de ventilation pendant la charge. / Este dispositivo está diseñado solo para cargar vehículos que no requieren ventilación durante la carga.
- This device has an automatic reset feature. / Cet appareil est équipé d'un dispositif de réinitialisation automatique. / Este dispositivo tiene una función automática de reprogramación.
- Do not use this with an extension cord. / Ne pas utiliser cet appareil avec une rallonge électrique. / No lo use con un cordón de extensión.

**CAUTION/
ATTENTION/
PRECAUCIÓN**


- Connect only to properly grounded outlets. / Brancher uniquement sur des prises de courant dûment mises à la masse. / Conectar solamente a tomacorrientes con la descarga apropiada a tierra.
- Do not use this product if there is any damage to the unit. / N'utilisez pas ce produit s'il y a des dommages à l'unité. / No use este producto si hay algún daño en la unidad.
- Do not remove cover or attempt to open the enclosure. No user serviceable parts inside. Refer servicing to qualified service personnel. / Ne pas retirer le couvercle ou essayer d'ouvrir le boîtier. Aucune pièce ne peut être changée par l'utilisateur. Faire appel à une personne qualifiée pour tout service de dépannage. / No saque la funda ni intente abrir el armazón. No hay piezas interiores que pueda reparar el usuario. Derive el servicio a personal de servicio calificado.





Product Identification

Part Number →

Serial Number →

Model Number →



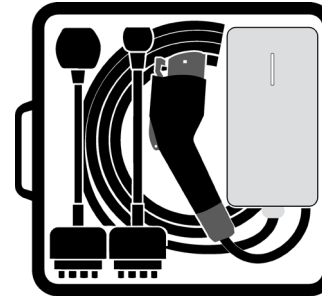





PN:
SN:
MN:

DESIGNED AND ENGINEERED IN CALIFORNIA
MADE IN MEXICO

CHARGER COMPONENTS

Your Ampure Go comes in a carrying bag that includes one high-power 14-50 grid cord, one low-power 5-15 grid cord, the control box, and the coupler.



Carrying Bag with Contents



Type 1 SAE (J1772)
Coupler



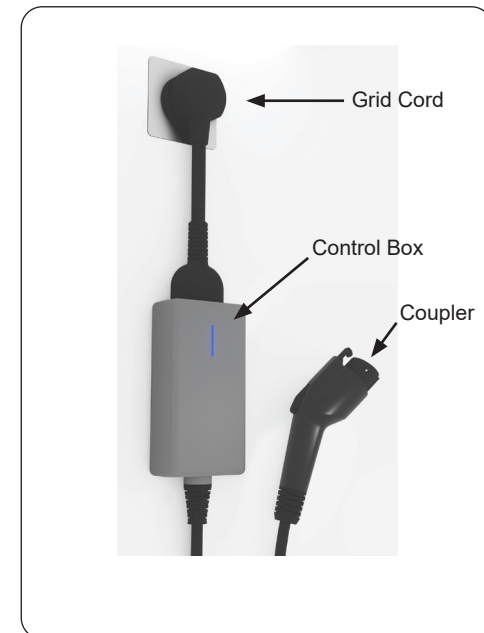
NACS SAE (J3400)
Coupler



NEMA
14-50
Grid Cord



NEMA
5-15
Grid Cord



Assembled Cordset

SPECIFICATIONS

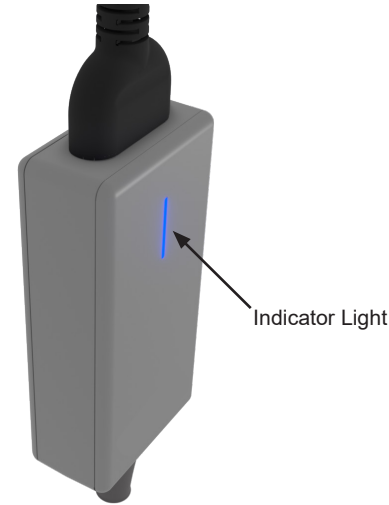
CHARGER MODEL	SAE (NORTH AMERICA)
Voltage:	120-240 VAC
Maximum current:	32 amps max continuous
Frequency:	60 Hz
Power consumption at idle:	< 2.5 watts
Power consumption during charging:	< 6.5 watts
Cable length:	Approximately 20 ft (6.1 m)
Weight:	8.8 lbs (4 kg)
Operating temperature:	-22°F to +122°F (-30°C to +50°C)
Storage temperature:	-40°F to +185°F (-40°C to +85°C)
Maximum CCID environmental rating:	IP67
Ventilation:	Not required

Specifications are subject to change without notice.

Section 2 – Operating Instructions

KNOW YOUR INDICATOR LIGHTS

With your charger plugged into the power outlet, the first thing you will notice are the indicator lights – here is a simple explanation of the indicators:



AMBER LIGHT

The Amber light indicates reduced charging due to an increase in temperature or a recoverable fault. Refer to the Troubleshooting Guide in Section 3 for more information.

BLUE LIGHT

The Blue light indicates the charger is ready to use. During the charging process, the Blue light pulses every 1.5 seconds. Refer to the Troubleshooting Guide in Section 3 for more information.

RED LIGHT

The Red light indicates when the charger detects a fault. If the Red light turns ON, the charger will not deliver power to the vehicle, and the error must be corrected before a charging cycle can begin or continue. Refer to the Troubleshooting Guide in Section 3 for more information.

NOTE



The following indicates a normal startup safety check.

1. When first plugged into a wall socket, the Amber, Blue and Red lights blink once.
2. Then the Blue light turns ON, followed by a blink of the Red light.
3. Lastly, the Blue light turns OFF, then ON again.

If the grid cord is changed from the previous charge, the system will reboot again.

CHARGING YOUR VEHICLE

1. Make sure the vehicle is in Park (P).

Insert the grid cord firmly into the control box. Then firmly insert the other end of the grid cord into the appropriate wall outlet.

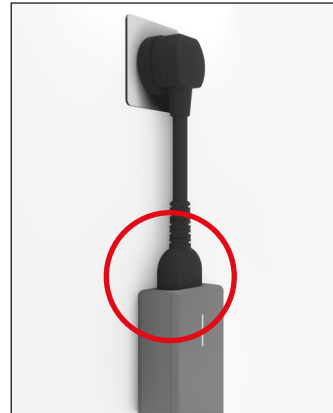
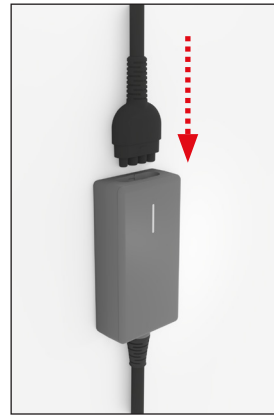
NOTE: Make sure the grid cord is fully inserted and flush with the control box before inserting the other end into the wall outlet. To remove the grid cord, firmly hold control box with hand and the grid cord with the other, then pull it firmly away from the control box.

2. When the grid cord is inserted into the NEMA 14-50 power outlet, the Amber, Blue and Red lights will blink once. Then the Blue light turns ON, followed by a blink of the Red light. Lastly, the Blue light turns OFF, then ON again. If you switch grid cords between charges, this startup system check will occur twice.

NOTE:

The cordset should only be used with a properly installed power outlet, and it should never be used with an extension cord.

3. Plug the coupler into your vehicle's charging inlet.
4. When charging begins, the Blue light pulses approximately every 1.5 seconds.
5. When charging ends, the Blue light turns solid blue.
6. To disconnect the coupler from the vehicle charge port, press the release button on the coupler, then pull the coupler away from the vehicle.



Firmly Inserted

CAUTION



Before plugging the coupler into the vehicle's charging inlet, confirm the control box is firmly secured to the wall using two #10 screws, and the coupler cable has been placed out of the way in a safe location to prevent tripping hazards.

NOTE



To safely discontinue charging at any time, follow the disconnect instructions in Step 6. Charging will automatically and safely stop. The Blue light remains ON (without blinking) when the coupler is removed.

NOTE



When plugging the charger into an unfamiliar power outlet, it is good practice to take a few minutes to observe the charging process and confirm the charger is supplying power before leaving the charger unattended.

The Red light Indicator turns on if it is not charging. The unit will turn OFF if a breaker or infrastructure GFI is tripped.

For more information about how to charge your vehicle, including charge settings and scheduling, refer to the vehicle owner's manual.

A NOTE ON AUTO-REBOOT

The Auto-Reboot feature helps to ensure that your vehicle is charged and ready for use when needed. A charge may be interrupted if an error is detected. Charging resumes once the error is no longer detected. The Amber, Blue and Red lights turn ON during an error condition.

The exception to immediate Auto-reboot is when the interruption is due to a ground fault circuit interruption (GFI/GFCI). The charger will attempt to restart within 60 seconds after this occurs. After a fourth attempt to restart, the charger shuts down and the Red light stays ON.

NOTE



If the fault persists, do not continue to try to charge your vehicle. Contact Ampure Customer Support.

CARE INSTRUCTIONS

Do not use hard cleaners or solvents as this may damage your Ampure Go charger. Do not kick or place undue stress on the charger cables. If the control box is exposed to direct sunlight, it may become too hot to the touch – we recommend keeping the control box out of direct sunlight.

MOVING, TRANSPORTING, AND STORAGE INSTRUCTIONS

- When transporting the charger, handle it with care. Do not subject it to strong force or impact, also do not pull, twist, tangle, drag, or step on the charger, coupler cable or power cable or any other components to prevent damaging it or any of its components.
- When moving the charger, be careful not to lift nor carry the assembly by the coupler cable, nor the power cable, so that the control box is hanging from the cables.
- When transporting or carrying the charger, carefully wind up the power cable and coupler cable, and carry the entire assembly with the control box. If possible, neatly place all the charger components in the carry bag that is provided with the charger.
- When storing the charger, be sure to store it in a clean, dry location off the ground and away from weather elements.
- Be sure that the charger temperature is within its storage temperature limits when moving, transporting, or storing it.

Section 3 – Troubleshooting

SAFETY FEATURES

The charger is designed with your safety as the highest priority and includes the following safety features to protect against the risk of electric high or hazardous voltage:

- **Missing Ground Protection:** If the utility ground fails the cordset will transition into an Auto-reboot fault state. See the TROUBLESHOOTING GUIDE on the following page.
- **Thermal Event Protection:** The charger module senses out-of-range thermal events and will reduce charging current or shut the unit down if required. See Reduced Charging and Recoverable Fault in the TROUBLESHOOTING GUIDE beginning on the following page.
- **GFCI Protection:** The charger is equipped with a ground fault circuit interruption (GFI/ GFCI) system to protect against high or hazardous voltage. If ground leakage is detected then the cordset will transition into a Ground Leakage fault state. See TROUBLESHOOTING GUIDE on the following page.
- **Insulation:** The charger module is fully insulated (no exposed live parts) to protect against hazardous or high voltage.
- **Unintentional Disconnection:** The charge coupler is designed to minimize unintentional disconnection.

TROUBLESHOOTING GUIDE

Please refer to this Troubleshooting Guide for possible solutions to common errors or difficulties with charging your vehicle using your mobile charger.

CAUTION



Do not attempt to repair or service the charger yourself. There are no serviceable parts inside this product, and service or repair should only be performed by a certified electrician.

QUICK REMINDER...

AMBER LIGHT

Reduced charging or recoverable fault which may interrupt charging.

BLUE LIGHT

The charger is ready to use or is charging.

RED LIGHT

Fault which may interrupt charging.

When you plug in your Ampure Go, the following sequence indicates a normal startup safety check:







1. The Amber, Blue and Red lights blink once.
2. Then the Blue light turns ON, followed by a blink of the Red light.
3. Lastly, the Blue light turns OFF, then ON again.

A Red light may be triggered by several sources including the charger, the utility service, or the vehicle. See the Troubleshooting tips below.


The Red light turns ON when the charger detects an error, whether it is connected to your vehicle or not. When the Red light is ON, the charger will not deliver power to the vehicle. The error must be corrected before charging begins or resumes.

CORDSET SYSTEM STATES	AMBER	BLUE	RED	NOTES
Unpowered				
Startup			Solid	Cordset is initializing (starting up)
	Solid	Solid	Solid	
			Solid	
		Fade		
		Solid	Blink	
Disconnected		Solid		
Transition		Blink		
Connected		Solid		
		Solid	Blink	
Charging		Pulsing		
Reduced Charging / CCID / IC-CPD	Solid	Pulsing		Cordset will continue to charge EV at a reduced current. The cordset temperature is high. Consider moving to a cooler area to charge or waiting for a cooler time of day.
Reduced Charging / Grid	Blink	Pulsing		
Ground Leakage Fault			Blink	The cordset will enter Auto-Reboot state after 60 seconds, and the fault will be resolved if ground leakage is no longer present.
Auto-Reboot Fault	Solid	Solid	Solid	The cordset will enter Auto-Reboot state after 1 minute, and the fault will be resolved if the fault is no longer present.
Recoverable Fault	Solid			The cordset will auto-recover if the fault is no longer present. If the cordset does not recover, then the user should disconnect the cordset from both the grid and the EV. The user should then try recharging. If the cordset is warm or in a hot environment, the user should charge the EV in a cooler environment. If the fault persists, please contact the EV manufacturer.
Non-Recoverable Fault			Solid	The cordset will not recover, and the user should disconnect the cordset from both the grid and the EV. The user should then retry charging. If the fault persists, please contact the EV manufacturer.

HIGH VOLTAGE WARNING

- DANGER**  High voltage is present in your electric meter housing and power distribution service panel. Contact with high voltage can cause death or serious personal injury.
- DANGER**  Risk of electric high or hazardous voltage – Parts inside this product have a risk of high or hazardous voltage.
- WARNING**  DO NOT operate your charger with a damaged grid cord, cable, charger coupler, or control box. Visually inspect the cable, charge coupler and charger module for damage before each use. Do not operate if any visual damage is apparent anywhere, then contact Ampure Customer Support.
- WARNING**  ALWAYS position the charger cable so it will not be driven over, stepped on, tripped over, damaged or stressed. To prevent personal injury and damage to the charger, ALWAYS stow the charger in safe, dry area or in the stowage bag after use.
- WARNING**  Use the charger only to supply power to electric vehicles equipped with an SAE J1772 or J3400 (NACS) compliant vehicle receptacle. For more information, refer to the vehicle owner’s manual.
- NOTE**  Disconnect the charger from the wall outlet before cleaning it. To clean the charger, wipe it with a clean cloth dampened with water or a mild detergent solution suitable for use on automobile paint. Do not use chemicals or solvents. Do not submerge the charger in any type of fluid.

STATE OF CALIFORNIA PROPOSITION 65 WARNINGS

- WARNING**  This product contains a chemical known to the State of California to cause cancer or birth defects or other reproductive harm.

FCC INFORMATION

- This device complies with Part 15 (Subpart B and Subpart C only) of the FCC Rules. Operation is subject to the following two conditions:
- This device may not cause harmful interference.
 - 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 could affect operation. If you suspect your charger is receiving interference, take the following steps before contacting Customer Support for service:
1. Relocate away from electrical appliances or equipment during charging.
 2. Turn off nearby electrical appliances or equipment during charging.

Important! Changes or modifications to this product by anyone other than an authorized service provider will void FCC compliance and the product will not be serviceable.

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