AC Charger User Manual









TABLE OF CONTENTS

1. Safety Information.	02
2. Moving and Storage Instructions	
3.FCC	
4.Appearance	06
5 Specification Sheet	
6. Status Description of the Charger Indication Lights	
7. Safety Requirements	
8. Packing List	
9. Tools and Materials Required.	
10. Installation Steps.	10
11. Operating Instructions	
12. Maintebance And Repair.	14
13. Service	15

1. Safety Information



IMPORTANT SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS

Note de sécurité importante Enregistrer ces directives

INSTRUCTIONS PERTAINING TO A RISK OF FIRE OR ELECTRIC SHOCK!

Improper connection of the equipment- grounding conductor may result in a risk of electric shock, leading to death or serious injury. Topstar recommends that installation be performed by a licensed electrician or other quadified professional in accordance with the regional electrical code where it is being installed to ensure the EV Charger is properly grounded. Do not modify the provided plug — if it will not fit the outlet, have a proper outlet installed by a licensed electrician or other qualified professional.

Instructions sur les risques d'incendie ou de choc électrique!

Un manivais raccordement des fils du mise à la terre de l'équipement peut intraliser des risques électriques. Choc entralmant la mort ou des blessures graves. Recommandation de Topstar pour adoption fisectricien certifié ou autre professionnel qualifié confirme aux codes électriques régionaix. Position de montage pour s'assurer que le chargeur de voitare électrique est correctement mis à la terre. Sans modification Si la fiche finarnie ne convient pas à la poise, venillez être fournie par un l'Isotricien ou autre professionnel qualifie.

GROUNDING INSTRUCTIONS

Description de la mise à la terre

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 equipment grounding terminal or lead on the product.

WARNING - Improper connection of the equipment-grounding conductor is able to result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doobt 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 manyaise connexion des fils de mise à la terre de Fequipement peut entraîner Risque de choc electrique. Si vous avez des questions, consultur un électricien ou un réparateur qualifié Si le produir est correctement mis à la terre. Ne modifiez pas la fiche fournie avec le produir-S'il ne s'adapte pas à la prise, faites installer la prise appropriée par un électricien qualifié.

For Hardwired Installation:

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 equipment grounding terminal or lead on the product.

Pour les installations câblées:

Ce produir doit être raccordé à un système de câblage métallique permanent mis à la terre, on Le fil de mise. à la terre de l'équipement doit fonctionner avac le fil du circuit et ôtre consecté à l'agripement Terminal de mise à la terre ou fil our le produit.

IMPORTANT SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS

Note de sécurité importante Enregistrer ces directives

INSTRUCTIONS PERTAINING TO A RISK OF FIRE OR ELECTRIC SHOCK Instructions relatives aux risques Incendie ou choc électrique

- . Read all the instructions before using this product.
- This device should be supervised when used around children. Do not put fingers into the electric vehicle empection.
- The EV Charger is intended for use with electric vehicles only. Specifically, it is intended only for charging vehicles not requiring ventilation during charging.
- Do not use the EV Charger in any manner other than specified in this installation guide. Refer servicing to qualified service personnel.
- Do not attempt to disassemble or repair any of the components of the EV Charget. There are no user serviceable parts inside.
- Do not use this product if the flexible power cord or I/V cable is frayed, has broken irrulation, or any
 other signs of damage.
- Do not use this product if the enclosure or the EV connector is broken, exacked, open, or shows any other indication of damage.
- Do not install the E.V. Charger in environments with explosive gas or vapors; nor where temperatures are outside its operating range of-22°F to 122°F (-30°C to 50°C).
- . Lisez toutes les instructions avant d'utiliser ce produit.
- L'antissation de l'appareil autour des enfants doit être surveillée. Ne metter pas voe doigts Connecteur pour véhicule électrique.
- Le chargeur pour véhicules électriques est uniquement disponible pour les véhicules électriques.
 Concrétement, c'est... Uniquement pour les véhicules en charge qui ne nécessitent pas de vernilation pendant la charge.
- Le chargesir de voiture électrique ne doit pas être utilisé de quélese manière que ce soit, souf dans les cas spécifiés dans le présent document. Guide d'installation. Faites appel à du personnel de maintenance spudifié pour effectuer la maintenance.
- N'essayez pas de démonter ou de réparer des prêces de votre véhicule électrique Chargeur. N'y a pas de pièces pouvant être réparées par l'atilisateur à l'intérieur.
- N'utilisez pus ce produit si le cordon d'alimentation flexible ou le câble du véhicule électrique est usé ou cassé.

facilition on tout autre signe de dommige.

- N'utilisce pas ce produit si le boilier ou le connecteur EV est camé, fissuré, ouvert ou endommagé Montree tout autre signe de dommage.
- N'installes pus le chargeur de voiture électrique dans un environnement contenant des gaz on des vopeurs explosific Non...

Températures en debots de la plage de fonctionnement de -22°F à 122°F (-30°C à 50°C).

2. Moving and Storage Instructions

Improper moving or morage of the EV Charger may result in damage to the product that could result in a risk of fire or electric shock during subsequent use.

Handle charger and packaging with care and avoid dropping it. When moving or lifting the EV Charger, always grasp the unit by the charging station enclosure. Never early or lift the EV Charger by either the power cable or charging cord.

Store the EV Charger indoors and in its original packaging until it is ready to be installed. Storage temperature should be between -22°F to 176°F (-30°C to 80°C).

Un déplacement ou un stockage incorract des chargeurs pour véhicules électriques pout endommager le produit, entraînant un risque d'incendie ou de choc électrique lors d'une utilisation ultérioure.

Manipulez le chargeur et l'emballage avec soin pour éviter de tomber. Lors du déplacement ou du levage Cliargeur de voiture électrique, veuillez toujours saisir le britier de la borne de recharge. Jamais Transportez ou soulevez le chargeur de voiture électrique via un cordon d'alimentation ou un câble de charge.

Conservez le chargeur de voiture électrique à l'intérieur et dans son emballage d'origine jusqu'à ce qu'il soit pert lostable. La température d'entreposage doit être comprise entre -22°F et 176°F (-30°C et 80°C).





3. FCC&ISEDC

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules / Industry Canada license-exempt RSS standard (s). 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 equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- —Reorient or relocate the receiving antenna.
- —Increase the separation between the equipment and receiver.
- —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- —Consult the dealer or an experienced radio/TV technician for help.

This equitment complies with CAN ICES-003(BNMB-003(B).

To satisfly FCC/ISEDC RF exposure requirements, a separation distance of 20cm or more should be maintained between the antenna of this device and persons during device operation.

To ensure compliance, operations at closer than this distance is not recommended.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1. L'appareil ne doit pas produire de brouillage;
- 2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est La FCC/ISEDC des éltats-unis stipule que cet appareil doit être en tout temps éloigné d'au moins 20 cm des personnes pendant son functionnement.

4. Appearance





5. Specification Sheet

Electrical Parameter	48A.Max.<2	BIAMIS 47	
	Nargle phase agent 2011 - 2411VAC 60 No		
	Connecta Topy: L1+L2+PE		
	11.5kW =2 at 240VAC	19/28W +2 at 248VAC	
Ingset Cond	Hardword		
Cheput Cable & Connector	2×18 F 0 5.5 m cable (2×25 FT /7.5m optional)		
	2*8AEJ1772, NAC8 studard congritance		
Environmental Parameter	MEMA Encloser Type/SC westletproof, dos-tight		
	Doming Maerial Shert metal and Tempeted glass		
	Humdity (35% non-condining		
	Operating Altenda Up to 2000m		
	IKON Temperal Olan		
	Operating Temperature: - 22°F to 122°F (- 30°C to 50°C)		
Installation Method	Flore manking introllation		
Dimension	14.6m + 12.6m + 70.9m (370mm + 120mm + 1800mm)		
Promotion:	Occounters, Deprecitage, Underwittige, Ground East, Surge protection, Chiev-tempotatuse production, Leakage protection		
Stendarde	SECS25, ULBIT, ULPH, UL2211, UL2251, UL2364, PART 15 225, RSS-210, 28O 15128, OCPP1-61 Compliance		
Centiones	E.H., PCC, R.: Energy Star, CTEP compliance, DSD 15138 Compliance		

HVIN	PLC Module	WWAN Module	Rated Current
TSEC240V/80A2US-BGPC		1	80A
TSEC240V/80A2US-RGC	X		80A
TSEC240V/80A2US-RPC		N	80A
TSEC240V/80A2US-RC	N	X	80A
TSEC240V/48A2US-RGPC		V V	
TSEC240V/48A2US-RGC	X	- 1	48A
rsec240V/48A2US-RPC / X		X	48A
TSEC240V/48A2US-RC	SEC240V/48A2US-RC X X		48A

6. Status Description of the Charger Indication Lights

sing Occupancy Indication Light	Shirm		
Solid Blue	Purking spits are occupied		
Salid Green	One or two parking spots available		
Severa Indication Lights	Work Status		
	Power		
OFF	Clarger down not have power		
Solid Blue	Charger has power, standby mode		
	Charge		
OFF	30V does not charge		
Flash Green	EV is sharping		
Solid Green	EV charging complete		
	Fault		
led light flashes I time in Js	Overvollage Waring		
od light flushes 2 times in 3s	Undervoltage Weing		
od light flashes 3 times in 3s	Owjet over stateat		
and Right Bashes 4 times to 3s	Clarger has excepted nominal temperature		
ed light flashes 5 times in 3s	Cierrot leskage		
ed light flashes 6 times in Ju	Charger is not grounded (Ensure that the EV charger is properly wered and grounded)		
ed light flashes 7 times in Ja	CP line for groperly continued		
ted light flashes 8 time in 2s	Metay fixed in position (Disconnect from power immediately, contact technical support.)		

7. Safety Requirements

-Read this user manual thoroughly and make sure to review all Jocal building and electrical codes before installing the AC charger. A qualified technician should install the AC charger according to the user manual and local safety regulations.

Use appropriate protection when connecting to the main power distribution cable.

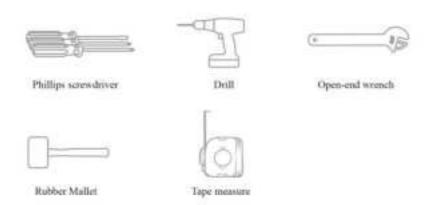
Select and install the appropriate circuit breaker as required by local regulations.

Disconnect switch for each ungrounded conductor of AC input shall be provided by others in accordance with the National Electric Code, ANSI/NFPA 70.

Verify that the Wall Connector is properly grounded. The ground connection must be bonded in the upstream power supply for proper operation. Check all physical connections, including the wire box terminals, electric panel(s), and wire box. In residential power supplies, check the bond between ground and neutral at the main panel. If connected to a step-down transformer, contact the transformer's manufacturer for direction on how to bond the ground connection.



9. Tools and Materials Required



10. Installation Steps

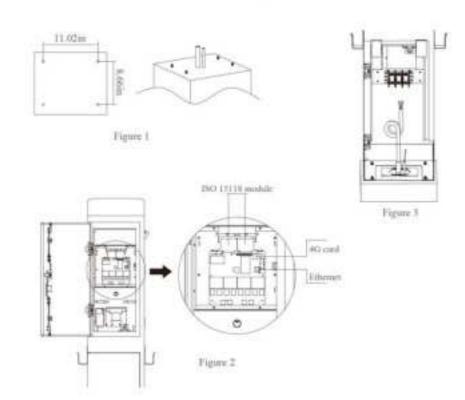
Step1: Mainpart Installation/ Network Configuration.

As shown in Figure 1, please use the positioning paper, to drill four 0.47m diameter holes at corresponding positions of the cement pile with a drill.

Screw down the nuts and spacers of the expansion bolts, put the main body of the charging station onto the cement pile, and open the door of the operation area at the lower part of the station; let the 4 expansion screws go through the holes correspondingly; make sure that the cable is threaded through the hole in the middle of the base, and lock the mits and spacers tightly.

- * (Optional) Use Ethernet for Communication: Pass the Ethenet cable through the hole along with hardwire cable, connect Ethenet cable to the port. (Figure 2)
- * (Optional) Use 4G for Communication: Invert Micro SIM curd in the slot to access 4G net. (Figure 2)

After the main body installation is completed, Please insert the charging connector into the connector holder on the front side of the EV charging station.



STEP2: Electrical Connection of Charging Stations

Use cold pressed terminal and heat shrinkable tubes to connect the wires to the terminal block, as shown in Figure 5.

Close the hole as tight as possible by adjusting the inlet protection plate, and use four scalant to seal at if needed.

NOTE: AWG: 2×(1/0)AWG+1×2AWG 9.0N·m, ≥600V, ≥105°C copper wire.

Optional: UL3512(200°C), UL3530(150°C/200°C), UL3386(105°C), UL3321(150°C),

UL3271(125°C), UL3289(150°C)

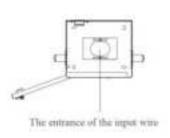


Figure 4

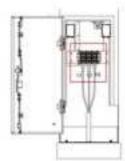
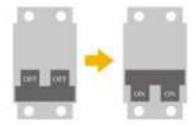


Figure 5

STEP 3. Energized Test

Turn on the air circuit-breaker and confirm the charger is charging properly.

Your EV charger now is ready to charge your vehicle.



11. Operating Instructions

Floodlight

The charger has night mode. The light can be automatically triggered by photocell sensor. When the surrounding environment becomes dark and the light is unclear, the illuminated sign will light up until dawn.

Automatically light up the floodlight when the PIR sensor detects proximity movement.

- When motion detected, it 100% light up;
- When no movements, it only 30% light up;

After I hour without any movements, it will totally turn dark, 0% light up.

LCD SCREEN



I. Booting

Display the EV charger serial number and service contact number.



2. Remind to plug in the gun for charging

 Bernind to insert the charging gun.
 Display the EV charger serial number and service number.



After plug in the gun, prompted to scan the QR code

Status I: Plug in gan A, prompt to scan code A



Status 2: Plug in gan B. prompt to scancode B



Status 3: Guns A and B are pluged in at the same time, prompting 2 QR codes for A and B.



4. Charging

After scanning the code, the charging station start to charge, and the screen display the bottom-to-top running animation.

Cyclic Charging Animation



5. Charging Complete

"v" and "Complete" means charging complete.

After pulling out the charging gun from EV, screen displays the data of this charging, to check invoice.



* Failures Occur

The status of the charger appears "!"

lirror message and error code appear,
check the error code to understand the error
situation.

Common Fault Quick Query

Single Fault Code Definition Combination Fault Code Defin		ombination Fault Code Definition	
9005	Nor Grounded	0033	Not Grounded and Meter Fault
0002	Ralay Wicking	0040	Input Crider Voltage and Meser Fault
0004	Over Current	1006.5	Not Grounded and Emergency Step
0008	Suput Over Voltage	20006	Beloy Sticking and Emergency Stop
0016	Input Under Veltage	0072	Input Over Voltage and Emergency Rog
H012	Electric Motor Field	0080	Suput Under Vollage and Emergency Step
0064	Emmpricy Stop	0090	Mem Fault and Emergency Step
0129	CFEmil	6092	Mater Finds and CP Error

12. MAINTENANCE AND REPAIR

12.1 Daily Maintenance

Please keep the charger clean and keep the charger in a dean area with low humidity. Do not install it in an environment near the sea, with high oil, high humidity or high dust.

- I Avoid moisture or water in the charger. If water or excess moisture gets into the charger, immediately power off the charger to avoid immediate danger. Proceed to contact the appropriate maintenance personnel before the next use.
- 2.1f there is any damage on the vehicle connector, charging cable, or vehicle connector holder, please contact the maintenance personnel immediately.
- 3. Please use the charger correctly. Do not hit or press hard on the case if the case is damaged, please contact a professional technician.
- 4. Avoid placing the charger near hot objects and at high temperature locations and away from dangerous substances such as flammable gases and corrosive materials.
- 5.Do not place external objects or heavy objects on the charger to avoid danger.



WARNING: Turn off input power at the circuit breaker before cleaning the charger.

A WARNING: Do not use cleaning solvents, scouring, powder, or any type of abrasive pad to clean the charger, its charging cable, or the vehicle's charging port.

CAUTION: To reduce the risk of electrical shock or equipment damage, do not allow liquid to enter the charger while cleaning it.

12.2 Warranty and Maintenance

- 1. The warranty period for this charger is 2 years and covers parts only.
- 2.During the warranty period, if any mulfunction is caused by regular use in accordance with the user manual and service instructions, the purts shall be repaired free of charge. Except for the following situations, the charger shall be subject to the above warranty terms:
- Unable to provide valid proof of purchase.
- Product that is out of warranty.
- Those who damage the product due to not following the product service instruction for use, maintenance and storage.
- 4. Durange or contamination caused by the entry of foreign objects.
- 5.Unauthorized repair, disassembly or modification.
- Damage caused by force majeure (such as lightning, excessive voltage, earthquake, fire, flood, etc.)
- 7.Malfunction and damage caused by other unavoidable external factors. Malfunction and damage caused by improper use of equipment, such as water or other solutions entering into the equipment.
- 8. Malfunction and damage caused by the grid power supply and voltage which is not specified for use with the charger equipment.

13. Service

Need more assistance? Contact Customer Service. +86 0592-7263768

******* com.cn