Electric Vehicle AC Charger

EVH006 Series (NA) - User Manual

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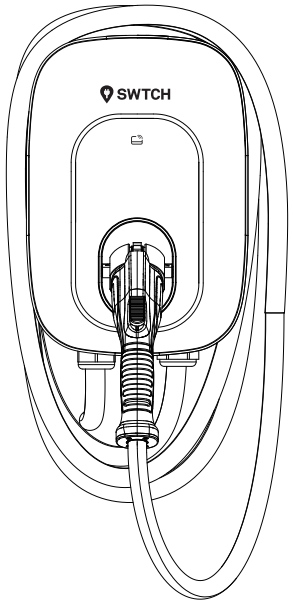

技术要求：
1. 成品规格： 142 x 210 mm；
2. 印刷方式： □单面印刷 ； ■双面印刷；
3. 装订方式： ■骑马钉； □ 单面对折；
4. 材质： ■70g双胶纸； □ 108g铜板纸；
5. 印刷颜色： 单黑色；
6. 有条码的话，刷码等级需达到B级；
7. 检验工具：卷尺，尺寸单位均为mm

				线条图提供者		设计者	
				排版者		审核者	日期
				吴旭	2024.07.02		
				文件翻译者		批准者	日期
版本号	修订原因	修订人	修订日期	签名	日期	签名	日期
变更栏							

说明书			视图/ VIEW
零件名称			
图纸图号			
产品名称		EVH006 Series (NA)	
产品型号			
比例	单位	版次	次料/REG.%
1:1	mm	1.0	
厦门佳因特科技有限公司			

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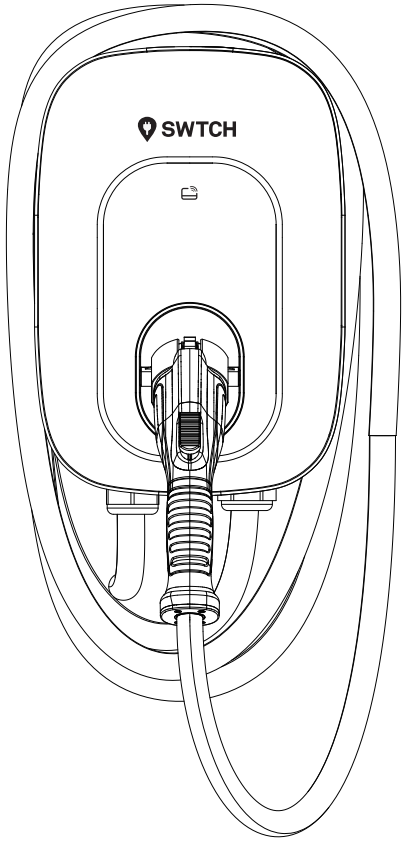

Version 1

USER MANUAL

TABLE OF CONTENTS

WARNING & CAUTION

1. Important Safety Instructions

1.1 Overall Warnings & Cautions

WARNING: To avoid fire, injury or death, carefully read and follow the instructions during installation, operation and maintenance.

- DO NOT put fingers into the electric vehicle connector.

- DO NOT use this product if the flexible power cord or EV cable is frayed, insulation-broken, or any other signs of damage.

- DO NOT use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage.

- DO NOT remove cover or attempt to open the enclosure because of risk of electric shock.

WARNING: This device should be supervised when used around children.

WARNING: This device must be grounded.

WARNING: To avoid a risk of fire or electric shock, do not use this device with an extension cord.

WARNING: The suitability of the use of flexible cord in accordance with CE code, part I, rule 4-012, is to be determined by the local inspection authority.

WARNING: To reduce the risk of fire, connect only to a circuit provided branch circuit over-current protection in accordance with the CSA C22.1–15 Canadian Electrical Code, Part 1 (Canada) or NOM-001-SEDE Electrical installations (utility) (Mexico) or ANSI / NFPA 70 National Electrical Code (USA).

Circuit Breaker Options table						
Output Amperage (A)	16A	32A	40A	48A	70A	80A
Circuit Breaker Options (A)	20A	40A	50A	60A	90A	100A

WARNING & CAUTION

1.2 Installation Requirements

WARNING: Disconnect electrical power prior to installing the charging station.

WARNING: Be sure to preview the user manual and ensure local building and electrical codes are reviewed before installing the AC charger.

WARNING: The AC charger should be installed by a qualified technician according to the user manual and local safety regulations.

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

CAUTION: Type B, C or D breaker with the rating current for table should be installed in the upstream AC distribution box.

CAUTION: The device shall be mounted at height between 2 feet and 4 feet from ground.

CAUTION: Please keep the charger in a clean area with low humidity. Not recommended to be installed in coastal environments with high humidity or high dust.

1.3 Daily Maintenance

CAUTION: Avoid moisture or water in the charger. If there is water or moisture ingress in the charger, it is necessary to immediately power off to avoid immediate danger, and notify the professionals to carry out maintenance before next use.

CAUTION: Please use the charger properly. Do not hit or press hard on the enclosure. If it is damaged, please contact a professional technician.

CAUTION: Avoid placing the charger near hot objects and at high temperature locations and away from dangerous substances such as flammable gases and corrosive materials.

CAUTION: Do not put heavy objects on the charger to avoid danger.

WARNING & CAUTION

Consignes De Sécurité Importantes

1.1 Avertissement & Mise En Garde Généraux

AVERTISSEMENT : Pour éviter les risques d'incendie, de blessure ou de mort, il faut lire et suivre soigneusement les instructions pendant l'installation, l'utilisation et l'entretien.

- Ne mettez pas les doigts dans le connecteur du véhicule électrique.

- N'utilisez pas ce produit si le cordon d'alimentation flexible ou le câble EV est effiloché, isolé ou présentant tout autre signe de dommage.

- N'utilisez pas ce produit si le boîtier ou le connecteur EV est cassé, fissuré, ouvert ou montre toute autre indication de dommage.

Ne retirez pas le couvercle et n'essayez pas d'ouvrir le boîtier en raison du risque de choc électrique.

AVERTISSEMENT : Cet appareil doit être surveillé lorsqu'il est utilisé à proximité d'enfants.

AVERTISSEMENT : Cet appareil doit être mis à la terre.

AVERTISSEMENT : Pour éviter tout risque d'incendie ou de choc électrique, n'utilisez pas cet appareil avec une rallonge électrique.

AVERTISSEMENT : L'adéquation de l'utilisation du cordon flexible conformément au code ce, partie i, règle 4-012, doit être déterminée par l'autorité d'inspection locale compétente.

AVERTISSEMENT : Pour réduire les risques d'incendie, ne connecter qu'à un circuit protection contre les surintensités des circuits de dérivation conformément à la norme canadienne CSA C22.1-15 Code électrique, partie 1 (Canada) ou NOM-001-SEDE Installations électriqu (Mexique) ou ANSI / NFPA 70 National Electrical Code (États-Unis).

Circuit Breaker Options table						
Output Amperage (A)	16A	32A	40A	48A	70A	80A
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WARNING & CAUTION

1.2 Exigence Avant L'installation

AVERTISSEMENT : Assurez-vous de consulter le manuel d'utilisation et assurez-vousque les codes locaux du bâtiment et de l'électricité sont passés en revue avant d'installer le chargeur.

AVERTISSEMENT : Débranchez l'alimentation électrique avant d'installer la station decharge.

AVERTISSEMENT : Le chargeur CA doit être installé par un technicien qualifié conformément au manuel d'utilisation et aux réglementations de sécurité locales.

MISE EN GARDE : Utilisez une protection appropriée lors de la connexion au câble de distribution d'alimentation principal.

MISE EN GARDE : Un disjoncteur de type B, C ou D avec le courant nominal indiqué dans le tableau doit être installé dans le boîtier de distribution CA en amont.

MISE EN GARDE : Cet appareil doit être monté à une hauteur entre 2 feet and 4 feet du sol.

MISE EN GARDE : Veuillez conserver le chargeur dans un endroit propre et peu humide. Il n'est pas recommandé de l'installer dans des environnements côtiers à forte humidité ou à forte poussière.

1.3 Entretien Quotidien

MISE EN GARDE : Évitez l'humidité ou l'eau dans le chargeur. En cas d'infiltration d'eau ou d'humidité dans le chargeur, il est nécessaire de l'éteindre immédiatement pour éviter tout danger immédiat et d'avertir le personnel professionnel d'effectuer l'entretien avant la prochaine utilisation.

MISE EN GARDE : Veuillez utiliser le chargeur correctement. Ne frappez pas ou n'appuyez pas trop fort sur le boîtier. Si le boîtier est endommagé, veuillez contacter un technicien professionnel.

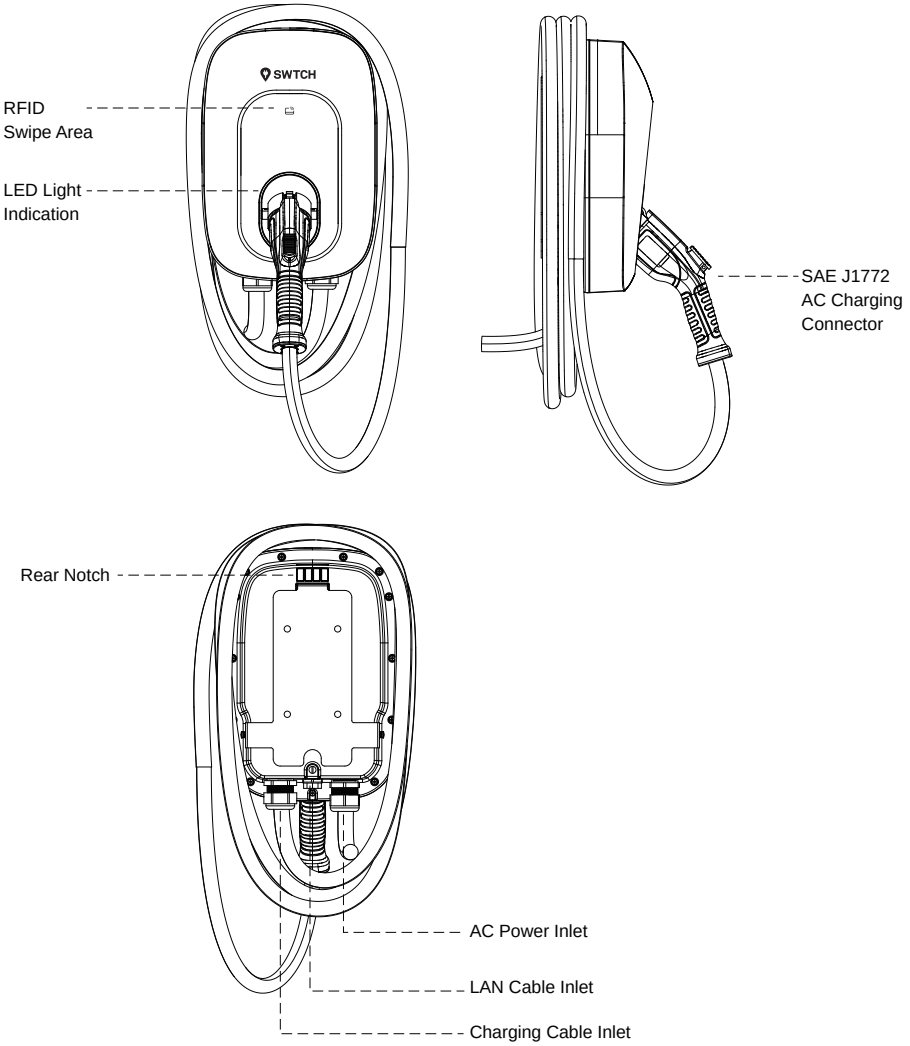
MISE EN GARDE : Évitez de placer le chargeur à proximité d'objets chauds et à des endroits à haute température et loin de substances dangereuses telles que des gaz inflammables et des matériaux corrosifs.

MISE EN GARDE : Ne placez pas d'objets lourds sur le chargeur pour éviter tout danger.

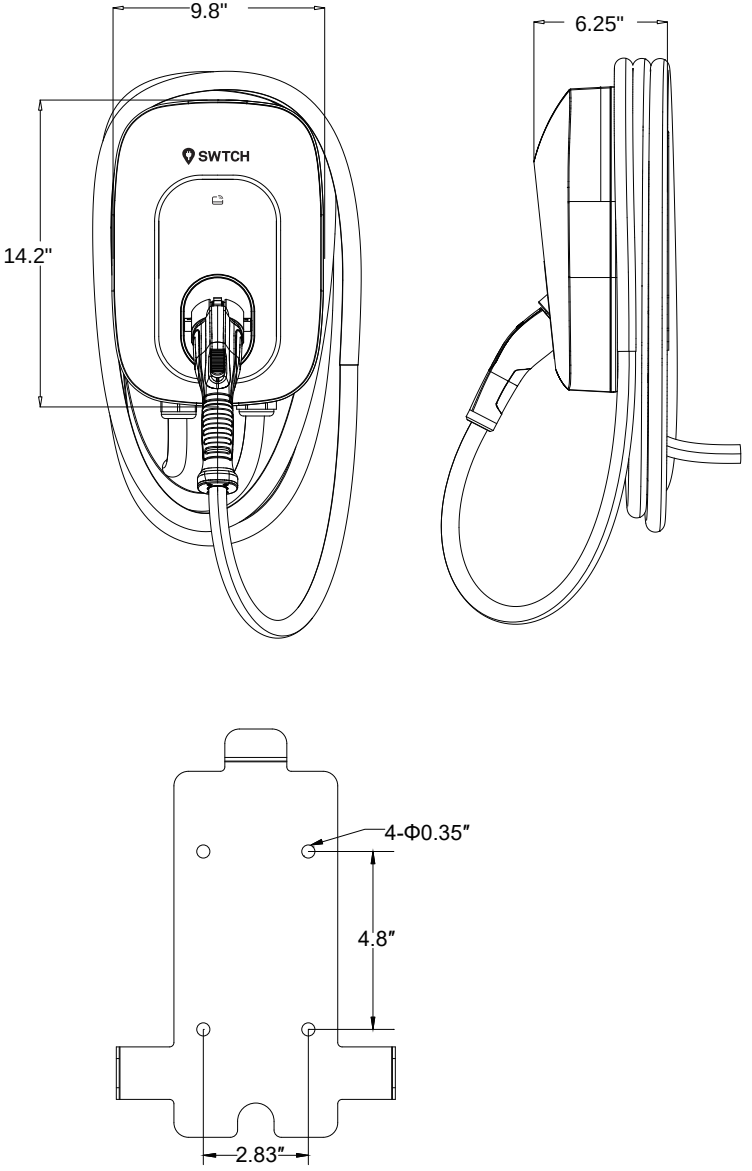
2. Product Introductions

CAUTION: Avoid placing the charger near hot objects and at high temperature locations and away from dangerous substances such as flammable gases and corrosive materials.

2.1 Basic Interface



2.2 Basic Dimensions

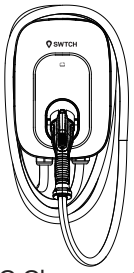


2.3 Specifications

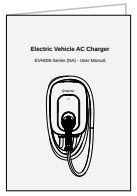
EVH006	
POWER	
Input Rating	208~240VAC / 120VAC
Output Current&Power	11.5 kW (48A)
Power Wiring	L1 / L2 / GND
Input Cord	Hard-wire
Mains frequency	50 / 60 Hz
Connector Type	SAE J3400 NACS 18ft (Optional)
Ground Fault Detection	CCID 20
Protection	UVP, OVP, RCD (CCID 20), SPD, Ground Fault Protection, OCP, OTP, Control Pilot Fault Protection
Meter Accuracy	±1%
USER INTERFACE	
Status Indication	LED indication
Connectivity	Bluetooth5.2, Wi-Fi 6(2.4GHz / 5GHz), Ethernet,
Communication Protocols	OCPP2.0.1 / OCPP 1.6Js self-adaptation
	ISO15118-2/3
Pile Group Management	Dynamic Load Balancing
User Authentication	Plug&Charge (Free)、ISO15118 Plug&Charge(PNC)、RFID Card、OCPP
Card Reader	RFID, ISO14443A、ISO14443B, 13.56MHz
Software Update	OTA
CERTIFICATION & STANDARDS	
Safety & Compliance	UL991, UL1998, UL2231, UL2594, ISO15118 (P&C)
Certification	ETL / FCC / Energy Star
Warranty	36 months
GENERAL	
Enclosure Rating	NEMA 4 (IP65), IK08
Operating Altitude	＜6561ft(2000m)
Operating Temperature	−40°F ~ +131°F (-40°C ~ +55°C)
Storage Temperature	−40°F ~ +185°F (-40°C ~ +85°C)
Operating Humidity	5~95%
Mounting	Wall mount / Pedestal (optional)
Product Dimensions	14.2″×9.8″×6.25″

3. Verify Contents

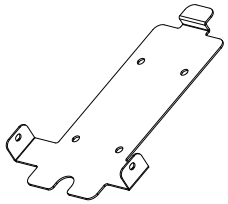
Check the box to ensure you have this installation guide and these parts:



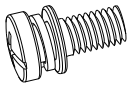
AC Charger ×1



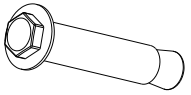
User Manual ×1



Wall-Mounted Bracket ×1

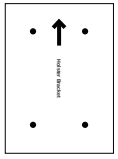


M5 Anti-Theft Round Head Screws ×2



M6 Hexagonal Expansion Screws ×4

Allen Wrench ×1



Mounting Template ×1

RFID Card ×2

4. Gather Tools

Tools required before installing the Wall-Mounted charger, gather the following tools:

1. Wire stripper
2. Adjustable Wrench
3. Voltmeter or digital multi-meter (for measuring AC voltage at the installation site)
4. Level
5. Pencil or marker
6. Drill
7. Phillips screwdriver

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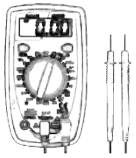

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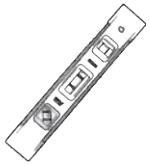

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Note: The above tools are very important, please gather them all.

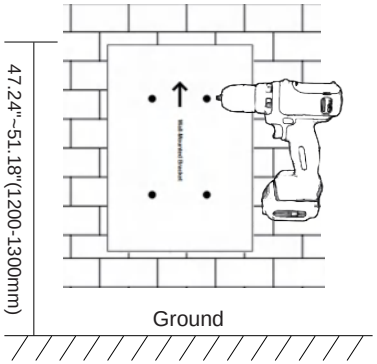
5. Plan The Mounting

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.

CAUTION: Not recommended to be installed in coastal environments with high humidity or high dust.

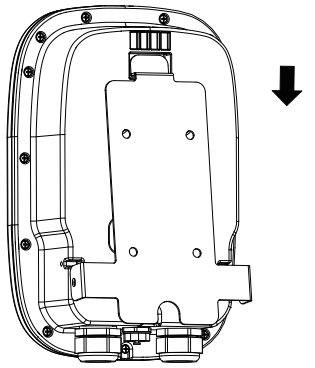
STEP 1

Make sure the installation wall is vertical, and use the Mounting template to drill four screw holes with a diameter of 0.33"(8.5mm) and a depth of 2.17"~2.36"(55mm~60mm) at a height of 47.24"~51.18" (1200-1300mm) from the ground according to the hole positions.



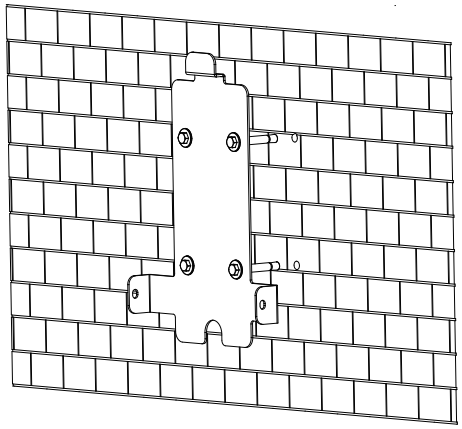
STEP 2

Push the bracket down to remove the wall hanger.



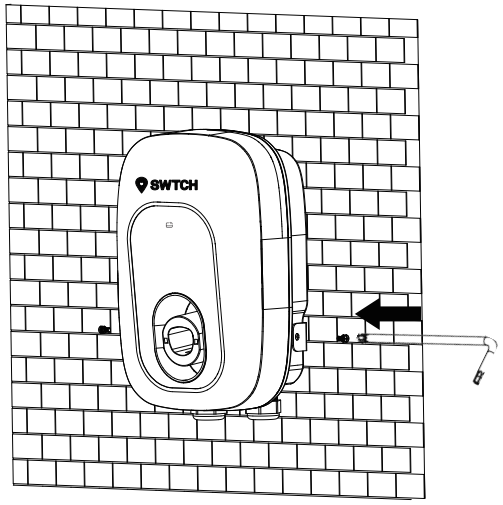
STEP 3

Use 4 Hexagonal Expansion Screws to secure the wall-mounted bracket on the wall, Use an wrench to tighten the screw nuts on the expansion screws.



STEP 4

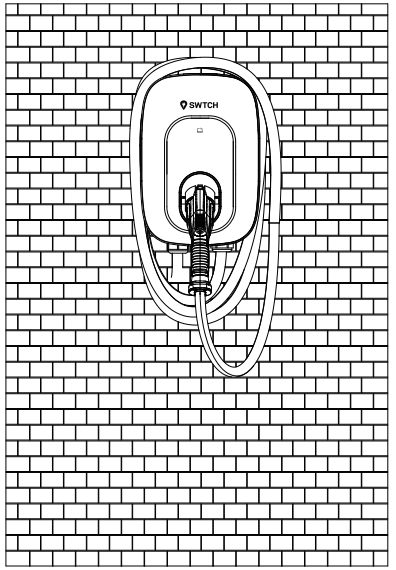
Align the rear notch of charger with the wall-mounted bracket and fit the screw holes of the right and left side, tighten two M5 anti-theft screws to complete the installation.



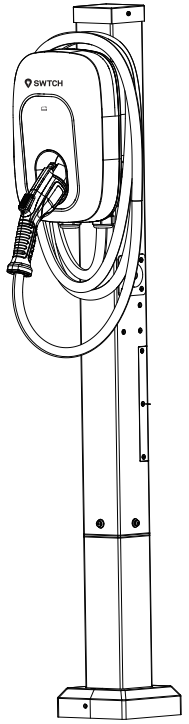
STEP 5

Overall outlook picture after installation:

Wall-mounted cable winding



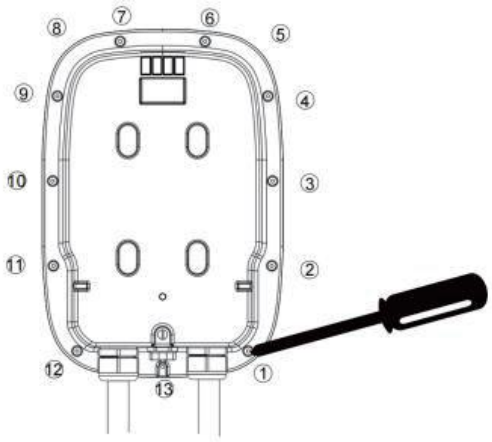
Pedestal(optional)



6. Install Card

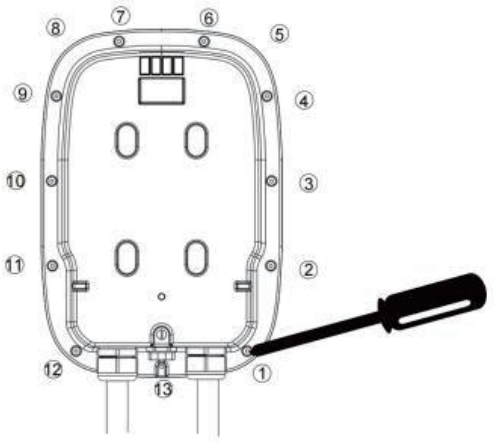
STEP 1

Use screwdriver to loosen the 13 fixed screws on the rear of charger, then remove the front cover.



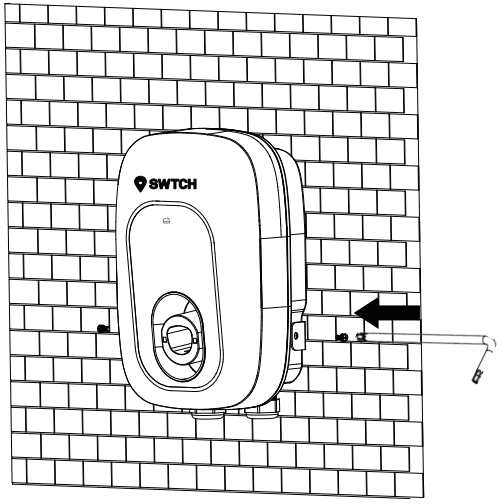
STEP 3

Tighten 13 screws on the front cover after the front cover is put back, the recommended screw torque is 1.0 N.m (9.6 lbf.in).



STEP 4

Align the rear notch of charger with the wall-mounted bracket and fit the screw holes of the right and left side, tighten two M5 anti-theft screws to complete the installation.



7. Wire The Circuit

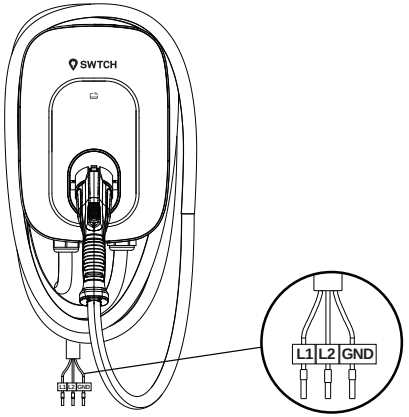
WARNING: This device must be grounded. Disconnect electrical power prior to installing the charging station.

WARNING: Improper connection of the equipment-grounding conductor would result in a risk of electric shock. Check with a qualified electrician or serviceman if you are not sure whether the product is properly grounded. Do not modify the plug provided with the product – if it doesn't fit the outlet, have a proper outlet installed by a qualified electrician.

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

For safe use of electricity, please set circuit breaker protection in the input part of EV Charger The wiring is not complicated, just need to follow the instructions below:

Connect the L1 lead to the grid L1, connect the L2 lead to the grid L2, connect the GND lead to the grid GND.



Circuit Breaker Options table						
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Circuit Breaker Options (A)	20A	40A	50A	60A	90A	100A

8. Light Codes

8.1 After Start UP

State	SWTCH Preference
Rebooting	Rotating between Blue Green and Red
Idle	Green
Connected	Flash Green (1s)
Authenticating	Flash Green (1s)
Charging	Flash Blue (4s)
Charging Stopped, Connected	Flash Green (1s)
Unconnected after charging	Green
Reserved	Yellow
Firmware upgrading	Flash Yellow (4s)
Unavailable	Flash Yellow (2s)
Faulted	Red

8.2 Error and Warning Messages

No.	Fault Status	Red Light	Remark
1	Meter Fault	1 flash followed by 3 sec pause	Auto Recover
2	CP Fault	2 flashes followed by 3 sec pause	Unplug the Connector to Recover
3	UVP	3 flashes followed by 3 sec pause	Auto Recover
4	OVP	4 flashes followed by 3 sec pause	Auto Recover
5	OTP	5 flashes followed by 3 sec pause	Auto Recover
6	OCP	6 flashes followed by 3 sec pause	Unplug the Connector to Recover
7	Ground Fault	7 flashes followed by 3 sec pause	Unplug the Connector to Recover
8	Relay Fault	8 flashes followed by 3 sec pause	Unplug the Connector to Recover
9	RCD Abnormal	9 flashes followed by 3 sec pause	Unplug the Connector to Recover
10	RCD Self-Test Fault	10 flashes followed by 3 sec pause	Reboot to Recover
11	Relay Self-Test Fault	11 flashes followed by 3 sec pause	Reboot to Recover

USER MANUAL

9. Warranty and Maintenance

• The warranty period for this charger is three years.

• During the warranty period for any malfunction under normal use according to the User Manual (to be determined by certified maintenance technicians of sellers), the product shall be repaired free of charge. Except for the following situations, the charger shall be subject to the above warranty terms:

1. The warranty certificate cannot be provided or the contents of the warranty certificate are modified
or inconsistent with the label indication of the repaired product.

2. Those who are unable to provide valid proof of purchase.

3. Those who exceed the manufacturer's specified warranty period.

4. Those who damage the product due to not following the product service instruction for use, maintenance and storage.

5. Damage or malfunction caused by external object entering.

6. Unauthorized repair, disassembly or modification.

7. Damage caused by force majeure (such as lightning, excessive voltage, earthquake, fire, flood,etc.).

8. 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.

9. Malfunction and damage caused by the grid power supply and voltage which is not specified for use with the charger equipment.

The above guarantees shall be made solely, and no other express or implied warranties shall be made (including the implied warranties of merchant ability, particular and applicable reason-ableness and adaptability, etc.) whether in the contract, civil negligence, or other aspects, the Company shall not be responsible for any special, incidental or consequential damages.

FCC Statement:
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 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 guarant ee 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.
Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environm ent. This transmitter must not be co - located or operating in conjunction with any other antenna or transmitter.
To satisfy FCC 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.

IC Statement:
This device complies with Industry Canada's licence - exempt RSSs.
Operation is subject to the following two conditions:
(1) This device may not cause interference; and
(2) This device must accept any interference, including interference that may cause undesired operation of the device.
Le pr é sent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autoris é e aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radio é lectrique subi, m ê me si le brouillage est susceptible d'en compromettre le fonctionnement.

Contains IC： 10224A-2023FCS960K
Contains FCC ID： XMR2023FCS960K