



Electric Vehicle charging Station

EVB010-40 Series (NA) -User Manual

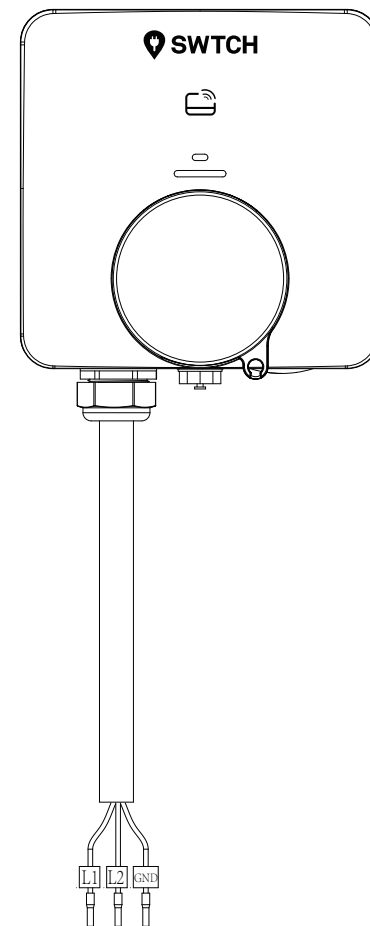


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WARNING & CAUTION

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** insert your fingers into the smart outlet.

- **DO NOT** use this product if the flexible power cord 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 CEC 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)	40A
Circuit Breaker Options (A)	50A

WARNING & CAUTION

1.2 Installation Requirements

- WARNING:** Disconnect electrical power prior to installing the Smart EV Charging Outlet.
- WARNING:** Be sure to preview the user manual and ensure local building and electrical codes are reviewed before installing the smart outlet.
- WARNING:** The smart outlet 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 600 mm and 1200 mm from ground.
- CAUTION:** Please keep the smart outlet 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 smart outlet. If there is water or moisture ingress in the smart outlet, 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 smart outlet properly. Do not hit or press hard on the enclosure. If it is damaged, please contact a professional technician.
- CAUTION:** Avoid placing the smart outlet 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 smart outlet to avoid danger.

WARNING & CAUTION

1. 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** Insérez vos doigts dans la prise intelligente
- **N'utilisez pas** ce produit si le cordon d'alimentation flexible est effiloché, isolé ou présente tout autre signe de dommage.
- **N'utilisez pas** ce produit si le boîtier 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:** TPour 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 électriques (Mexique) ou ANSI/NFPA 70 National Electrical Code (États-Unis).

Circuit Breaker Options table	
Output Amperage (A)	40A
Circuit Breaker Options (A)	50A

WARNING & CAUTION

Exigences d'installation

- ATTENTION:** ADéconnecter l'alimentation électrique avant d'installer la prise de charge intelligente EV.
- ATTENTION:** Veuillez consulter le manuel de l'utilisateur et vérifier que les codes de construction et électriques locaux ont été respectés avant l'installation de la prise intelligente.
- ATTENTION:** La prise intelligente doit être installée par un technicien qualifié conformément au manuel de l'utilisateur et aux réglementations locales de sécurité.
- PRUDENCE:** Utiliser une protection appropriée lors du raccordement au câble de distribution électrique principal.
- PRUDENCE:** Un disjoncteur de type B, C ou D avec un courant nominal adapté au tableau doit être installé dans le coffret de distribution AC en amont.
- PRUDENCE:** L'appareil doit être monté à une hauteur comprise entre 600 mm et 1200 mm du sol.
- PRUDENCE:** Veuillez garder la prise intelligente dans un endroit propre avec une faible humidité. Il n'est pas recommandé de l'installer dans des environnements côtiers avec une humidité ou une poussière élevée.

1.3 Maintenance quotidienne

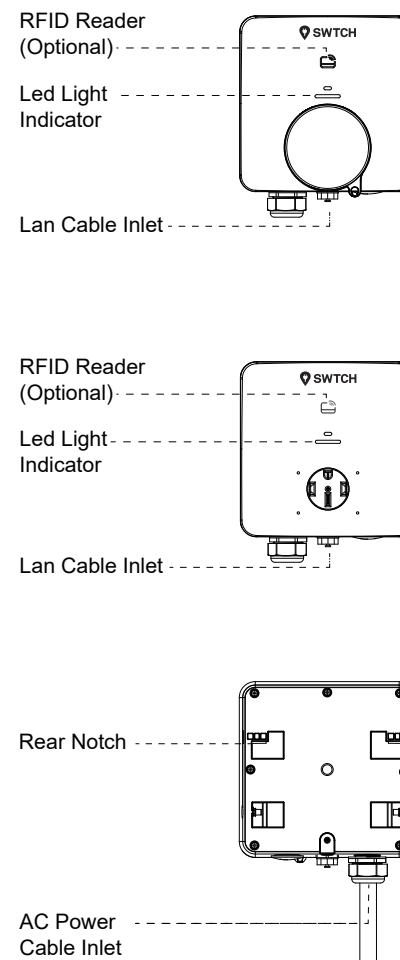
- PRUDENCE:** Éviter l'humidité ou l'eau dans la prise intelligente. En cas d'intrusion d'eau ou d'humidité, il est nécessaire de couper immédiatement l'alimentation pour éviter tout danger immédiat et de contacter des professionnels pour effectuer la maintenance avant toute réutilisation.
- PRUDENCE:** Veuillez utiliser correctement la prise intelligente. Ne pas frapper ni appuyer fortement sur l'enveloppe. En cas de dommage, contactez un technicien professionnel.
- PRUDENCE:** Évitez de placer la prise intelligente près d'objets chauds et dans des endroits à haute température, et éloignez-la des substances dangereuses telles que les gaz inflammables et les matériaux corrosifs.
- PRUDENCE:** Ne pas poser d'objets lourds sur la prise intelligente pour éviter tout danger.

2. Product Introductions

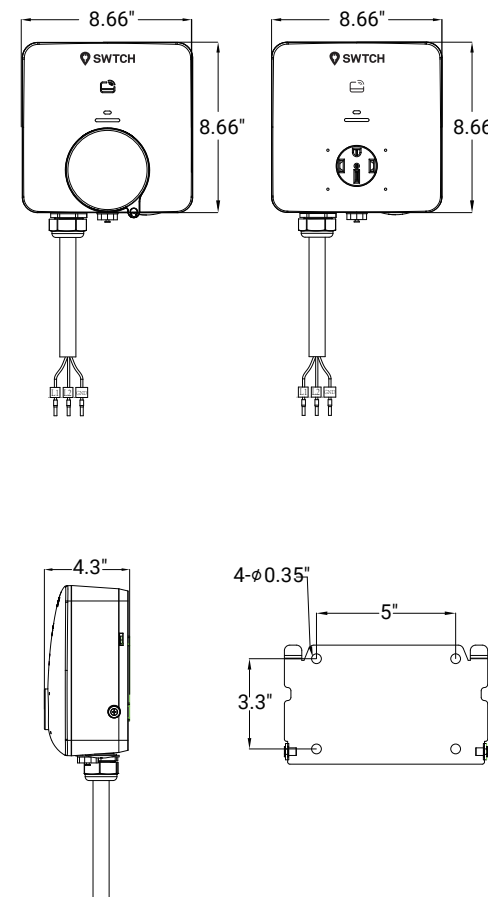


CAUTION: Avoid placing the smart outlet near hot objects and at high temperature locations and away from dangerous substances such as flammable gases and corrosive materials.

2.1 Basic Interface



2.2 Basic Dimension

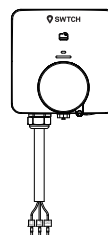


2.3 Specifications

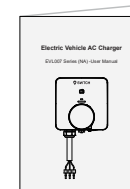
MODE	EVH010-40
Power	
Input Cord	Double-Insulated Cable
Input Rating	208-240 VAC
Output Current&Power	9.6KW (40A)
Power Wiring	L1 / L2 / GND
Mains frequency	50 / 60 Hz
Output Type	NEMA 14-50 receptacle
Ground Fault Detection	CCID 20
Protection	UVP, OVP, RCD (CCID 20), SPD, Ground Fault Protection, OCP, OTP
USER INTERFACE	
Status Indication	LED indication
Connectivity	Bluetooth, Wi-Fi (2.4G), Ethernet (Optional)
User Authentication	OCPP1.6J、RFID
Software Update	OTA
CERTIFICATION & STANDARDS	
Safety & Compliance	UL991, UL1998, UL2231, UL2594
Certification	ETL、FCC、Energy Star、IC
Warranty	3 Years
GENERAL	
Color	Black
Enclosure Rating	NEMA 3R / IK10
Operating Altitude	< 6561ft (2000m)
Operating Temperature	-40°F ~ +122°F (-40°C ~ +50°C)
Storage Temperature	-40°F ~ +185°F (-40°C ~ +85°C)
Operating Humidity	5~95%
Mounting	Wall mount
Product Dimensions	8.66" x 8.66" x 4.3" (220mm×220mm×109mm)

3. Verify Contents

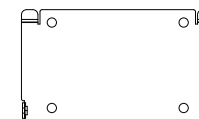
Check the box to ensure you have this installation guide and these parts:



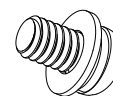
Smart EV Charging Outlet ×1



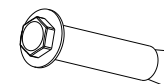
User Manual ×1



Wall-Mounted Bracket ×1(Installed)



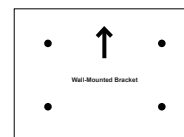
M5 Anti-Theft Round Head Screws ×2(Installed)



M6 Hexagonal Expansion Screws ×4



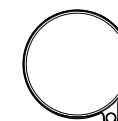
Allen Wrench ×1



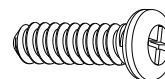
Mounting Template ×1



RFID Card ×2



Waterproof Cover ×1

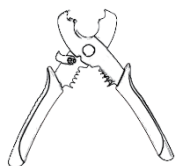


ST3.5*12 Screw ×6

4. Gather Tools

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

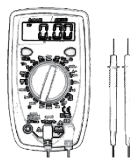
1. Wire stripper
2. Adjustable Wrench
3. Voltmeter or digital multi-meter (for measuring AC voltage at the installation site)
4. Level
5. Pencil or marker
6. Drill



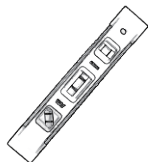
1



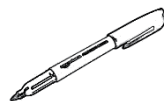
2



3



4



5



6

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.

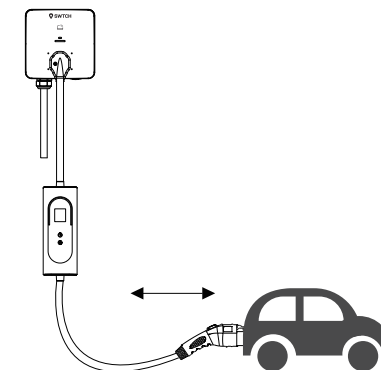


CAUTION: Not recommended to be installed in coastal environments with high humidity or high dust.

STEP 1

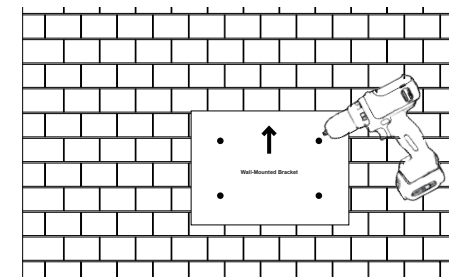
Select the appropriate mounting location with electrical capacity:

- I. Ensure the owner has chosen a mounting location that allows the charging cable to reach the car's charging port while still providing slack.
- II. The device must be anchored into mounting such as 2" x 6" stud or a solid wall.
- III. The device shall be mounted at height between 2 feet (600 mm) and 4 feet (1200 mm) from ground.



STEP 2

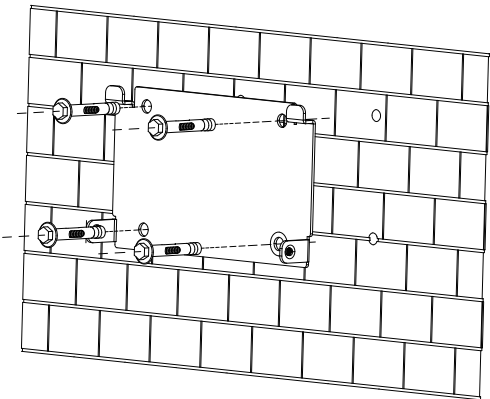
- I. Attach the installation templates in the direction indicated by the arrows.
- II. For the wall-mount template, drill 4 screw holes with a diameter of 0.391" (10mm) and a depth of 1.97" (50mm).



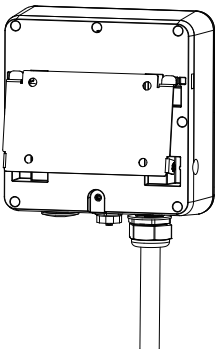
6. Mount the Smart Outlet Station

STEP 1

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.

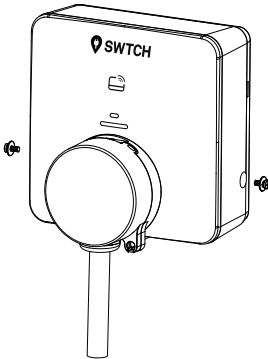


STEP 2



Align the rear groove of the smart outlet with the wall-mount bracket, then tighten the screws on both sides to secure the smart outlet onto the bracket.

STEP 3



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 smart outlet.



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.

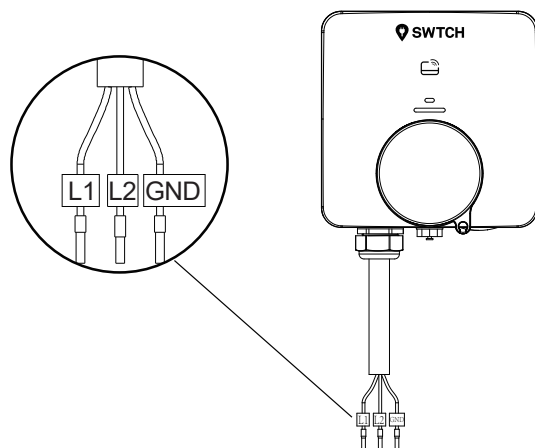


CAUTION: UUse appropriate protection when connecting to the main power distribution cable.

Circuit Breaker Options table	
Output Amperage (A)	40A
Circuit Breaker Options (A)	50A

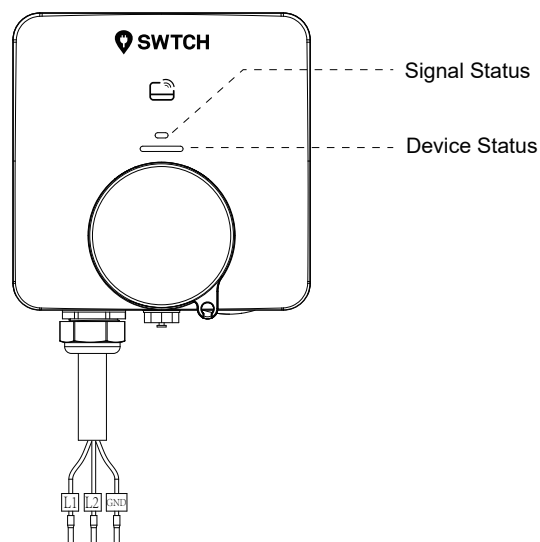
Hard-wired

For safe use of electricity, please set circuit breaker protection in the input part of smart outlet. 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.



8. Light Codes

8.1 Indicator Lights Identification



8.2 After Start UP

Device Status	SWTCH Preference
Rebooting	Rotating between Blue Green and Red
Idle	Green
Finished	Flash Green (1s)
Authenticating	Flash Green (1s)
Charging	Flash Blue (4s)
Reserved	Yellow
Unavailable	Flash Yellow (2s)
Firmware Upgrading	Flash Yellow (4s)
Faulted	Red
Signal Status	SWTCH Preference
No Connection	Red
Internet Connecting	Flash Yellow (1s)
Internet Connected	Yellow
Backend Connecting	Flash Green (1s)
Backend Connected	Green

8.3 Error and Warning Messages

No.	Fault Status	Red Light	Remark
1	Meter Fault	1 flash followed by 3 sec pause	Auto Recover
2	UVP	3 flashes followed by 3 sec pause	Auto Recover
3	OVP	4 flashes followed by 3 sec pause	Auto Recover
4	OTP	5 flashes followed by 3 sec pause	Auto Recover
5	OCP	6 flashes followed by 3 sec pause	Unplug the Connector to Recover
6	Ground Fault	7 flashes followed by 3 sec pause	Unplug the Connector to Recover
7	Relay Fault	8 flashes followed by 3 sec pause	Unplug the Connector to Recover
8	RCD Abnormal	9 flashes followed by 3 sec pause	Unplug the Connector to Recover
9	RCD Self-Test Fault	10 flashes followed by 3 sec pause	Reboot to Recover
10	Relay Self-Test Fault	11 flashes followed by 3 sec pause	Reboot to Recover
11	Sensor Fault	12 flashes followed by 3 sec pause	Check sensor or contact Technical support

9. FCC Declaration

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

This device may not cause harmful interference, and this device must accept any interference received, including interference that may cause undesired operation.

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

Note: 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.

WIFI module: Containing FCC ID: 2AC7Z-ESPWROOM32UE

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.

10. ISED Statement

ISED RSS warning:

This device complies with Innovation, Science and Economic Development Canada Compliance licence-exempt RSS standard (s). Operation is subject to the following two conditions:

- (1) This device may not cause interference
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

ISED Radiation Exposure Statement:

This equipment complies with ISED RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Avis RSS d'ISED:

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, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Déclaration d'exposition aux radiations ISED:

Cet équipement est conforme aux limites d'exposition aux rayonnements RF de ISED établies pour un environnement non contrôlé.

Cet émetteur ne doit pas être co-localisé ou fonctionner en conjonction avec une autre antenne ou émetteur. Cet équipement doit être installé et utilisé de manière à maintenir une distance minimale de 20 cm entre l'équipement et votre corps.

11. Warranty and Maintenance

The warranty period for this smart outlet is three (3) years from the date of purchase.

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

- a. 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.
- b. Those who are unable to provide valid proof of purchase.
- c. Those who exceed the manufacturer's specified warranty period.
- d. Those who damage the product due to not following the product service instruction for use, maintenance and storage.
- e. Damage or malfunction caused by external object entering.
- f. Unauthorized repair, disassembly or modification.
- g. Damage caused by force majeure (such as lightning, excessive voltage, earthquake, fire, flood, etc.).
- h. 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.
- i. Malfunction and damage caused by the grid power supply and voltage which is not specified for use with the smart outlet 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 reasonableness 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.