

Wallbox EV Charger User Manual

Model No.	HY070W-T1
Current	8~32A
Charging Plug	US Type 1
Power Plug	NEMA 14-50

01/Product Appearance and Overview



 This product is an AC charging station designed for the AC charging of electric vehicles. The charging station includes a charging station body, wall-hanging backboard, and other components. It features charging protection and a card-swiping mechanism. The product is designed with industrial principles, making it easy to install and use.

•Safety is a top priority, and the product is equipped with multiple safety protections, using high-quality, fireproof, waterproof, and dust-proof materials. It is rated IP54, which means it is waterproof, dust-proof, and can withstand exposure to wind, rain, and sun.

• The charging station is designed for plug-and-play operation, making it simple and convenient to use. It is compatible with the SAE J1772 AC Level 2 charging standard new energy vehicles, and features pure copper wire without oxidation, complying with inspection standards for flame retardancy and impact resistance.

02/Led Screen Description



03/Function and Dimension



Control Box Function



04/Product Parameters

Basic Information	Product Code:	HY070W- T1	
	Input Voltage:	200~240Vac	
	Rated Current:	Adjustable Current 8A/10A/13A/16A/32A	
	Rated Power:	7.6KW@240Vac (32A)	
	Charging Type:	Level 2	
Draduat Crasification	Charging Plug:	SAE J 1772 (Type 1)	
Product Specification	Power Plug:	NEMA 14- 50	
	Charging Cable:	3×10AWG+18AWG	
	Working Temp.:	-30°C to 50°C	
Working Environment	Humidity:	0~95% Non- Condensing	
working Environment	IP Rate:	IP54	
	Crushing Force:	No Damage Under 5000N	
	Shell:	Thermoplastic; Flame Retardant Grade UL94V-0	
Material Deufermennes	Charging Plug Pin:	Pure Copper Silver Plated	
Material Performance	Charging Cable:	Halogen Free, Pure Copper Core with TPE Cable Jacket	
	Mechanical Life:	>10,000 Times	
Dimension & Package	Control Box Size:	L12.2" * W6.3" * H3.54"	
	Cable Length:	25ft	
	Box Size:	L16.54" * W12.2" * H7.09"	
	Gross Weight:	10lbs	
	View Historical Charging Record		
APP Control	Select a Charging Schedule		
	Set Charging Current		
User Interface	LED Indicator; LCD Display Screen		
	Current Adjust Button; Time Booking Button		
Communication Interface	Bluetooth; WI-FI; Ethernet; RFID Card		

05/Safety Precautions

1. Ensure that the equipment is well grounded before powering it on.

2. Keep the charging gun head clean and dry. If it gets dirty, wipe it with a clean and dry cloth.

3. Do not touch the charging gun with your hands while charging.

4. Make sure that the input voltage, frequency, circuit breaker, or fuse of the device and other conditions meet the specifications before powering on the equipment.

5. Insulate all tools as necessary to prevent bare metal parts from touching the metal frame and causing a short circuit.

6. Do not attempt to disassemble, repair or modify the charging pile. If maintenance or modification is necessary, contact the staff. Improper operation can result in equipment damage, water leakage, leakage, and other hazards. This equipment should be installed, adjusted, and serviced by qualified electrical personnel familiar with the construction and operation of this type of equipment and the hazards involved.

7. The equipment should be operated in a clean, constant temperature, and constant humidity environment as much as possible, and the operating environment must not contain volatile gases or flammable gases.

8. Charge with caution during rain and thunder.

9. Follow the instructions strictly during use. Do not allow children to get close to or use the charging pile while charging to avoid injury.

10. After charging is complete, hang the charging gun properly back into the charging gun base. Avoid placing the charging gun head at random or dropping it on the ground to prevent safety accidents.

06/What is in the box?



Charging station + Charging plug × 1







RFID card × 2

Hanging board (BIGGER plate) × 1 (i

Hanging board (SMALLER Plate) × 1



07/Installation Steps



1. Fix the anti- theft SMALLER plate to the back of the WALLBOX station.



2. Use the BIGGER plate to mark the location of the screw holes on the wall where you plan to mount the station.



3. Use a drill to make holes in the wall where you marked the locations.



4. Hammer the plastic bolts into the holes you drilled.



5. Fix the BIGGER plate to the wall using screws.



6. Hang the WALLBOX station on the plate that is now affixed to the wall.



7. Lock the bottom anti-sheft SMALLER plate with screws.



8. Remove the transparent protective film from WALLBOX station.



9. Wrap the cable and connector around the WALLBOX station.

08/Charging Steps (Part 1)



1. Check the power distribution cable for any damage before powering up.



2. Plug the power plug into the corresponding outlet.



3. Set the current as required.



4. Carefully plug the charging connector into the vehicle socket.



5. Make sure the charging connector is fully inserted until it clicks into place.



6. Use the swipe card or mobile app to activate the charging process.



7. Once the charging process has started, the electric vehicle should charge normally and charging parameters can not be changed.



8. Use the swipe card or mobile app to end the charging session. The EV charging box will automatically stop charging once the vehicle is fully charged.



9. Unplug the charging connector from the vehicle socket and carefully wrap the cable around the EV charging box. Make sure the cable is not tangled or twisted to prevent damage.

08/Charging Steps(Part 2-Checking list)

Before initiating the charging operation, please carefully review and ensure the following checklist is complete:

a.The AC charging station is installed in a convenient location for operation and maintenance.

b.The charging station and all accessories are correctly connected and securely installed.

c. The earth leakage circuit breaker at the AC incoming terminal is properly selected.

d.There are no foreign objects or debris left on the charging station's surface.

Taking the time to ensure these items are checked and confirmed can help ensure a safe and successful charging operation.

08/Charging Steps(Part 3-Emergency)



In case of any abnormal situation during the charging process, press the emergency stop button immediately to turn off all input and output power supplies.

09/Indicator Light Description (1) Fault Indicator Prompt

Working state	Red	Green	Blue
Power On (Unplugged)	/	Stays On	/
Insert the plug (Uncharged)	/	/	Stays On
Charging Mode	/	/	Flashing
Charging Completed	/	/	Stays On
Metering communication error	Stays On	/	/
Under-voltage alarm	Stays On	/	/
Over-voltage alarm	Stays On	/	/
Ground fault	Stays On	/	/
Over current protection	Stays On	/	/
Leakage protection	Stays On	/	/
Over temperature protection	Stays On	/	/
RFID failure	Stays On	/	/
Relay failure	Stays On	/	/
Memory failure	Stays On	/	/

* Remarks: Fault reason will display on LCD screen when RED indicator stays on.

(2) Common Trouble Handling

Fault	Reasons	Suggstions
AC Over-Voltage	High Input Voltage	1. If the voltage exceeds 270Vac for level 2 and 140Vac for level 1 for a short period of time, the charger will go into standby mode. Wait for the power network to restore itself to the normal voltage range, then the charger will automatically resume charging.
		2. If the voltage in the area/community is over 270Vac for level 2 and 140Vac for level 1 for a long time, do not use the charger until the voltage has returned to the normal range.
AC Under-Voltage	Low Input Voltage	1. If the voltage is lower than 190Vac for level 2 and 90Vac for level 1 for a short period of time, the charger will go into standby mode. Wait for the power network to restore itself to the normal voltage range, then the charger will automatically resume charging.
		2. If the voltage in the area/community is lower than 190Vac for level 2 and 90Vac for level 1 for a long time, do not use the charger until the voltage has returned to the normal range.
AC Over current	High input current	1. Immediately connect the distribution box's leakage/over-current protection circuit breaker.
		2. Check for any low impedance or short circuit between the two output lines of the AC pile.
		3. After resolving the above issues, switch the power back on. If the problem persists, please contact us for assistance.
Over-temperature	High temperature For AC pile	Please check the installation environment of the AC charging pile and ensure that there are no other heating equipment in the vicinity. It is important to maintain an ambient temperature below 50°C to prevent overheating and potential damage to the equipment.

Excessive leakage current	Excessive leakage current	1. Immediately disconnect the leakage/over- current protection switch of the distribution box.
		2. Check for any damage or low impedance to the ground or short circuit in the output line of the AC pile.
		3. After troubleshooting the above problems, turn the power back on. If the problem persists, please contact us for further assistance.
Ground fault	Failure in grounding of the input/output or inverse connection of input L/N	1. Immediately disconnect the leakage/over- current protection switch of the distribution box.
		2. Check if the input/output line of the AC pile is grounded properly and if the input L/N is connected in the correct sequence.
		3. Once the above problems are identified and resolved, power on again.
		4. If the issue persists, please contact us for further assistance.
Abnormal communication (grid-connected mode)	Backstage communicate fault	 Check the network connection of the AC pile and ensure that the communication cable is correctly connected to the communication interface.
		2. Check whether the communication configuration of the AC pile is correct, and whether the communication parameters of the charging pile are the same as those of the background management system.
		 Check the communication status of the background management system, whether it is working normally, and whether there are communication failures or network congestion issues.
		 After troubleshooting the above problems, power on again. If the problem still exists, please contact us.
Charger connection Error	Charger CC/CP Connection Error	1. Check if there is any damage or loose connection in the charging gun or cable. Make sure it is securely connected to the vehicle and the charging station.
		2. Restart the charging station and try again.
		3. If the fault persists, please contact us.

Customer Support

For Technical Assistance Call:

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For additional products and information, please visit our website at: www.hysunpower.com.