



ZODIAC

AC wall-mounted home charger

ELECTRIC VEHICLE CHARGER INSTALLATION AND INSTRUCTION MANUAL

CONTENTS



SAFETY	3
INTRODUCTION	6
Serial Number Identification	6
Appearance and Dimensions	7
Technical Specifications	8
Product Features	9
SYSTEM ARCHITECTURE	10
Electric	10
Internal System Communications	10
INSTALLATION	11
Procedure	11
Site Space Requirements	12
Mounting Requirements	13
Electrical Requirements	14
Network Connectivity Requirements	15
Tool Preparation	16
Installation Instructions - Models with Quick-Connect Fly Lead	17
Connecting the Power Cable	18
Installation Instructions - Models without Quick-Connect Fly Lead	19
Inside the Zodiac	20
Orientation of the CT clamp	21
Access ports	21
COMMISSIONING	22
Power On Process	22
Charging Operation	22
Emergency Operation	22
Forced Unplugging and Recovery	22
Charging Operation	23
Check before commissioning	23
AFTER-SALES MAINTENANCE	24
After Sales Service	24
Disclaimer	24
Maintenance	24
PROCEDURES	26
APPENDIX	27
LED indicator status identification	27
Fault diagnostics (cause and resolution)	27
Restriction of Hazardous Substances1	28
Authentication	29

SAFETY



SAFETY ANNOUNCEMENTS

Before operating the EV charger, read the instructions and precautions carefully to reduce the risk of accidents. The "caution, warning, hazard" notices in the product and product manual do not represent all safety concerns to be observed and are only intended to supplement the various operational safety precautions.

In carrying out the company's product and equipment operations, you must comply with relevant industry safety norms and strictly abide by these instructions to provide the appropriate equipment precautions and special safety instructions

IDENTIFICATION DESCRIPTION

4	Indicates that care must be taken with the operation or condition of hazardous voltage
\triangle	Important security information must be followed very carefully
<u>\(\lambda \) \(\lambda \) \</u>	Indicates risk of burns from high-temperature areas or areas with high component temperatures
	Ground protected connection point
\sim AC	AC electricity
	Indicates that the said action must be performed using clothing and/or personal protective equipment provided by the employer

ELECTRICAL SAFETY

HIGH VOLTAGE



Some components of the power system operate with high voltage. Direct or indirect contact with these components through non-insulated protective material poses a fatal hazard.

The installation of AC power supply equipment must comply with safety regulations, and personnel carrying out the installation of AC equipment must be qualified in high voltage AC-power operation.

SAFFTY



It is strictly prohibited to wear watches, bracelets, rings or other conductive objects on your wrist or hand. Turn off the power immediately if you find water or moisture in the unit. When operating in humid conditions, water should be strictly prevented from entering the equipment.

A "Do not operate" sign must be hung on switches and buttons that are not to be used during installation.



Construction of high-voltage lines can cause fire or electric shock accidents. The racking and wiring of AC cables through the area must comply with the local regulations and specifications. Only personnel qualified for high-voltage and AC operations can carry out various high-voltage operations.

TOOLS



Special tools must be used for all high AC voltage operations.

THUNDERSTORMS



High AC voltage operations during thunderstorms are strictly prohibited.

Strong electromagnetic fields are produced in the atmosphere during thunderstorms. To avoid lightning damage to equipment and personnel, do not carry out any operations during thunderstorms.

ELECTROSTATICS



Static electricity generated by the human body can damage electrostatic-sensitive components on boards such as large-scale integrated circuits (ICs). To prevent static damage to sensitive components, personnel must wear an anti-static bracelet when in contact with equipment (hand-held boards, circuit boards, IC chips, etc.). The anti-static bracelet must be well-grounded on the other end.

SHORT CIRCUITS



It is strictly prohibited to short-circuit the power supply system to the positive and negative poles or to short the non-ground pole to ground during operation. Short circuits can cause equipment to burn and pose a personal safety hazard.

In addition, the polarity of the cables and interface terminals must be strictly checked when carrying out live work.

Power distribution operation space is limited. Before any operation, close attention must be paid to the choice of operating space.

An insulation tool must be used during operation.

When working with electricity, care must be taken to keep your hands, wrists and arms steady, to prevent accidents from a tool slipping, or from too much movement of a tool or your body.

SAFETY



SHARP CORNERS



When moving equipment by hand, wear protective gloves to prevent cuts.

POWER CABLE



Make sure that the cable label is correct before connecting the cable.

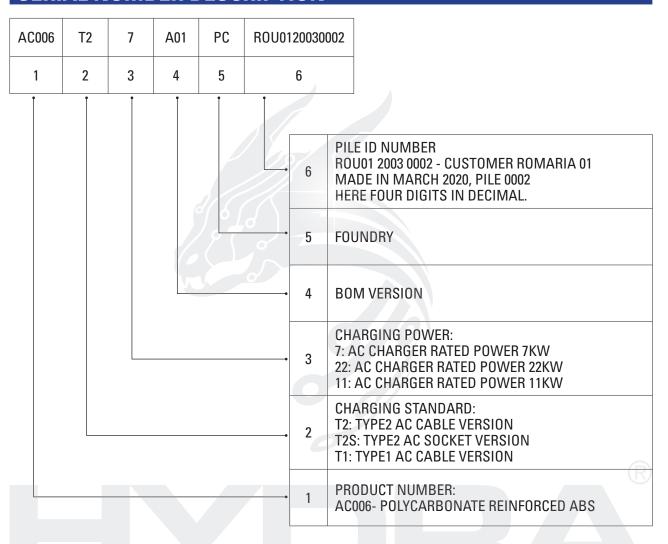
SIGNAL LINE



The signal cable should be tied separately from the power cable and at least 15mm away.



SERIAL NUMBER DESCRIPTION



The Hydra Zodiac wall-mounted, AC Electric Vehicle Charger can be configured with Type 1 J1772, Type 2 cable (tethered) or socket (untethered 1 J1772, Type 2 cable (tethered) or socket (untethered). The system can be installed outdoors (but for safety reasons, if the water/snow level reaches the charger connector it should not be used).



APPEARANCE & DIMENSIONS

Use	Residential, Commercial or Workplace Parking
Material	POLYCARBONATE REINFORCED ABS
Installation type	Wall-mounted
Cable layout	Bottom
Weight	Charger: 2.8kg Charging Cable: 5.4kG
Cable length	4.7m
Charging socket	Type1 or Type2



- 1 Status indicator light
- 2 Charging Lead Socket
- 3 Emergency Stop and Reset Button
- 4 Fixing Screws
- 5 Power Cable inlet
- 6 Ethernet port (option)
- 7 Cable Plug inlet



TECHNICAL SPECIFICATIONS

COMPONENT	Dimensions	350(L) x 200(W) x 135(H) mm
SPECIFICATIONS		
	Weight	3.5 kg (including cable)
	Cable length	5 meters
	Shell material	Polycarbonate reinforced abs
	Screen	N/A
POWER CHARACTERISTICS	Input voltage	230V AC (L/N/PE) ±10% 400V AC (L1/L2/L3/N/PE) ±10%
	Input frequency	50Hz/60Hz
	Rated power	7kW (single-phase) / 22kW (three-phase)
	Measurement accuracy	≤±0.5%
	Output voltage	Same as input voltage
	Output current	32A
DESIGN FEATURES	UI	Emergency stop button, LED indicator
	Charging method	Plug and charge, APP (timed start and stop)
	Charging cable	Type2 (Socket/Cable)
COMMUNICATION	Web interface	WiFi/Ethernet
	OCPP	OCPP 1.6j
WORKING	Usage	Indoor/Outdoor
ENVIRONMENT	Operating temperature	-20°C ~ +50°C
	Operating humidity	5% ~ 95% no frost
	Elevation	<2000m
	Protection level	IP65
	Cooling method	Ambient air cooling
	Ground detection	30mA AC, 6mA DC



PRODUCT FEATURES

The HYDRA ZODIAC AC Charger has a modern design and user-friendly interface, designed for domestic and workplace use.

SAFETY FEATURES

- # Hardware protection features:
 - 5 Emergency stop protection
 - Overcurrent protection
 - Earth leakage protection
- Comprehensive software protection features, providing multiple protections
- ∮ IP65, EMC class B/C

SMART

- The terminal charger is connected to the Open Charge Point Protocol platform online
- Remote diagnostics, remote upgrades
- 5 Compatible with GB/T, Type1-SAEJ1772, Type 2 and IEC61851-1/2017
- **OCPP** Smart charging
- Support for OCPP1.6-J (later direct upgrade to 2.0)

CONVENIENT

- Wireless or wired communication, flexible networking
- Open communication protocol for sweep charge, swipe charging and API services
- Several settings to end the charge
 - Time limit
 - Amount of electricity

OPTIONAL FEATURES

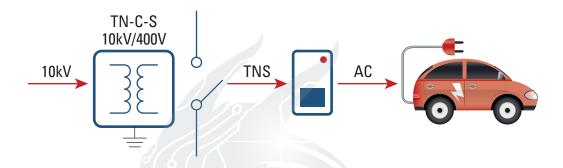
Plug&Charge (optional)

SYSTEM ARCHITECTURE

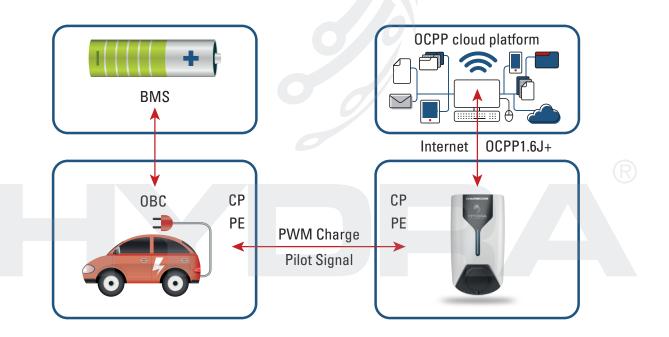


ELECTRIC

Transformer - Switch - Charger - Car



INTERNAL SYSTEM COMMUNICATIONS





PROCEDURE

SAFETY INSTRUCTIONS

The operating voltage and current inside the charging system are high, and the following regulations should be observed at all times to ensure personal safety:

- 1. Charging systems must only be installed by personnel who have been trained in, and have sufficient knowledge of, the charging system. Always follow safety precautions and local safety regulations during installation.
- 2. To operate inside the charging system, make sure that the charging system is not live. The power input to the charging system must be disconnected.
- 3. Distribution cable wiring should be reasonable and protective to avoid accidental contact when operating power supplies.

VISUAL INSPECTION

Upon product delivery, check that the package is not damaged and that the label is complete and correct. If there is an issue, immediately inform the carrier and take photos as evidence. At the same time, immediately contact the manufacturer to discuss the issue.

Only after the goods arrive at the installation site can they be opened and the boxes opened for inspection. Start by opening the box with the packing slip, taking out the packing list and checking it against each item. Next, check the serial number of the box, the equipment packaging, the number and type of accessories and the integrity of all items.

Following the packing list, check that accessories and accompanying documents are complete (refer to the shipping list) and store the accessories and documents properly.

Carry out a visual inspection to ensure that the product is free of abnormal marks showing collisions, and of scratches, cracks, dents, rust, breakage, or peeling of paint.

Sign receipt documents, make a record of the situation, keep documents and scan them for archives, or give them to relevant parties.

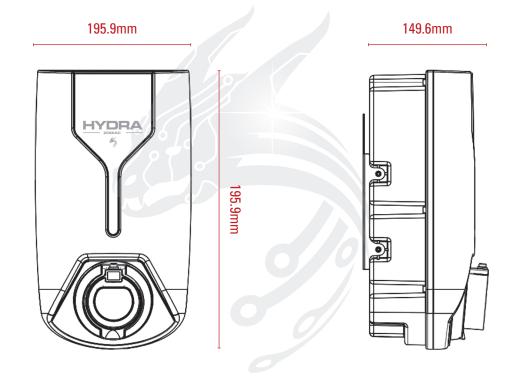
ACCESSORY LIST

The packing list comes with the shipping documents.



SITE SPACE REQUIREMENTS

Adequate installation space should be reserved to ensure safe and reliable operation, ventilation and maintenance of the equipment. Installation requires 250x400mm of space

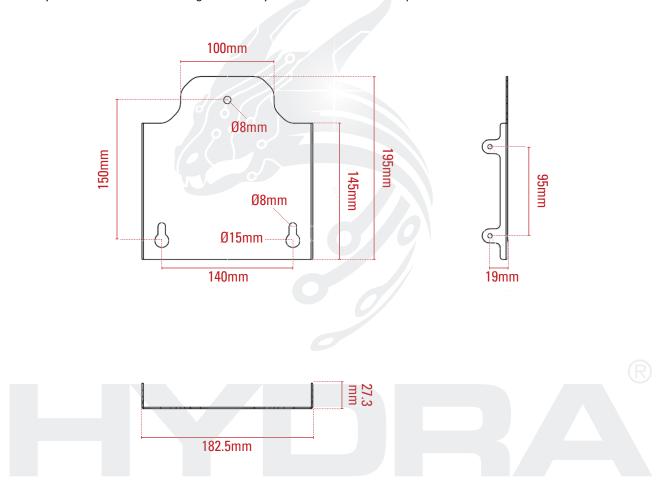




MOUNTING REQUIREMENTS

When the backplate is used to hang the charger on the wall, ensure that the wall smoothness error is within ± 1.5 mm per square meter and that the strength level of the installation position is not less than C30. Four M4 expansion screw holes are embedded in the mounting surface.

To avoid the back plate distorting when being screwed onto the wall, it is recommended that you fix each screw loosely one at a time and then tighten slowly once all screws are in place.





ELECTRICAL REQUIREMENTS

Cable type: TN-C-S/TN-S confirming the need for shielding as required by local laws or norms

- 🤌 If there is a shield, both ends of the shield are connected to the PE secure ground.
- Solution Cable diameter requirements are determined by the contractor or electrical engineer, based on power, distance and industry standards, or the following recommendations:
 - ZR-YJV-multi-core-sheath power cable.
 - The voltage level is 450/750V or higher.
- A temperature of at least 90°C should be achieved.
- PE Safety ground wire requires the same size model as the N wire, or uses the following recommended requirements:
 - When the phase line is greater than 35 mm2, the ground line should be no less than half of the phase line section.
 - When the phase line is greater than 16 mm2 and less than or equal to 35mm2, the ground line should be consistent with the phase section.
 - The section of the ground line must not be less than 16 mm2.
- The recommended power distribution input wire diameter of the charger should not be less than the following recommended values and should have a separate circuit breaker and leakage (the following table is at 25°C environment, YJV22 (armoured) cable in the soil directly applying flow as a reference, according to the actual cable material and laying method to determine the specific wire diameter).

Charger power(kW)	7	11	22
Input voltage	240V	240V (L-L)	400V
Input current	32A	16A	32A
Recommended line diameter	6mm ²	6mm ²	6mm²



NETWORK CONNECTIVITY REQUIREMENTS

The recommended way to connect to the network is to access the Wi-Fi module integrated in the charger. Make sure the local signal strength is strong and stable; otherwise a signal amplifier must be installed.

If your chosen method of internet connection is via WIFI please check the signal strength in your desired place of installation. If there is no or extremely poor connection a standard wired internet connection (ethernet) is available. Wired connections must meet the following requirements:

- S RJ45 Ethernet
- Metwork cable type: 5e class or greater, 8P plus PE, shielding wire.
- It is recommended that the line length is less than 75m. Greater than 75m length requires a customised engineering solution.
- Minimum bandwidth required:
 - Upstream: 128 kbps
 - Downstream: 4 Mbps
- 5 Demand connection reliability: 99.9%.
- For special configurations, please contact us.





TOOL PREPARATION

STANDARD TOOLS

NAME	DESCRIPTION	ΩТΥ
Multimeter	Checking the electrical connections and electrical parameters	1
Electric impact drill	Drilling	1
Impact drill bit (Ø6mm)	Drilling	2
Tape measure (5m)	Measurement	1
Level	Measurement	1
Crosshead screwdriver	Unpacking	1
Pliers	Unpacking	1
Wire Stripper	Removing the insulation sheath / jacket	1
Terminal pressure line pliers	Pressing the terminals	1
Bevel cutting pliers	Cutting the cable	1
PVC tape and sheath	Insulation tape and insulation cladding connection	1
Personal protection tools	Ensuring the health and safety of operators	1





INSTALLATION INSTRUCTIONS - USING QUICK-CONNECT FLY LEAD

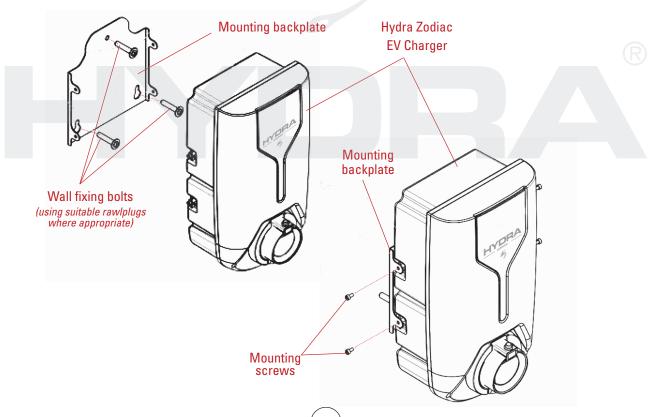
PLEASE NOTE: THE ZODIAC EV CHARGER HAS BEEN DESIGNED TO BE CONNECTED TO THE AC ELECTRICAL SUPPLY USING THE QUICK-CONNECT FLY LEAD. THIS SIMPLIFIES THE INSTALLATION PROCESS AND ENSURES THE ELECTRONIC COMPONENTS WITHIN THE EV CHARGER HOUSING ARE NOT DISTURBED. IT ALSO ALLOWS THE ZODIAC TO BE WALL OR PEDESTAL MOUNTED BEFORE IT IS CONNECTED TO THE AC SUPPLY.

IF YOU CHOOSE NOT TO USE THE QUICK-CONNECT FLY LEAD AND OPEN THE ZODIAC CHARGER HOUSING TO WIRE IT DIRECTLY PLEASE SEE PAGE 19 FOR DETAILS OF HOW TO OPEN THE HOUSING AND WHICH COMPONENTS NEED TO BE TREATED WITH EXTREME CARE.

INSTALLATION

- Secure the base to the wall.

 NB: To avoid the back plate distorting when being screwed onto the wall, it is recommended that you fix each screw loosely one at a time and then tighten slowly once all screws are in place.
- Carefully and slowly lower the charger into place.
- Make sure that the cable has been passed into the cabinet along the seal sleeve.
- Ensure that the cabinet holes and bolts are aligned.
- Lock the nuts to 95.5 Nm.
- Keep the device upright do not tilt more than ±15°
- Mount the charging pile on the hanger and lock the charging pile





CONNECT THE POWER CABLE

Note: Turn off switches and pull out all fuses before connecting electrically

CONNECT THE GROUND CABLE

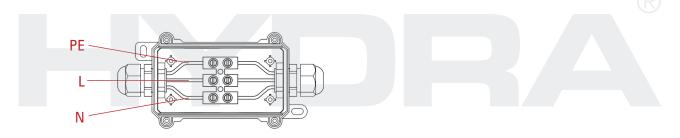
The charging system uses a common grounding method, using a ground cable to connect the ground copper row of the charging cabinet with the main ground row.

CONNECT THE AC INPUT

- 1 The AC input cable is routed from the user's power distribution switch and is connected to the output terminal of the user switch when power is ready to be turned on. The user distribution switch should have overcurrent, short circuit, lightning strike and other protective devices. The capacity of the power distribution switch is recommended as not less than 1.5 times the actual load capacity.
 - Please ensure the The Zodiac has its own dedicated circuit EV charging equipment in the UK is required by law to have its own dedicated circuit.
- 2 The L1-phase, L2-phase, L3-phase and N-zero cables of the AC input cable should use brown, black, grey and blue cables (standard reference below). If the cable has only one colour, the line number identification is pasted or marked with different colour insulation at both ends of the cable.
- 3 Cables should not have severed heads, broken heads or scratches.

Colour	Blue	Brown	Yellow and Green
Phase order	N	L O//	PE

PHASE LINE / ZERO STUD / IDENTIFICATION CHART



NOTE: We recommend wiring the Zodiac to the mains supply using the easy-connect module (shown above). However if the customer wishes to remove this component it is possible to hardwire the power supply cable directly into the Zodiac. (see next page)

When you unscrew and open the body of the Zodiac charger please handle the faceplate with great care. It does not completely separate from the unit and certain wires inside must remain connected between the faceplate and body of the Zodiac. Other internal components are delicate and instrumental to maintaining safety measures therefore it is extremely important these parts are not disturbed or touched during installation.



INSTALLATION INSTRUCTIONS WITHOUT USING QUICK-CONNECT FLY LEAD

PLEASE NOTE: THE ZODIAC EV CHARGER HAS BEEN DESIGNED TO BE CONNECTED TO THE AC **ELECTRICAL SUPPLY USING THE QUICK-CONNECT** FLY LEAD. IF YOU CHOOSE NOT TO USE THE QUICK-CONNECT FLY LEAD AND OPEN THE ZODIAC **CHARGER HOUSING TO WIRE IT DIRECTLY PLEASE** NOTE THE INTERNAL COMPONENTS WHICH **CANNOT BE DISTURBED.**



OPENING THE ZODIAC EV CHARGER HOUSING

The faceplate of the Zodiac EV charger is held in place with six small screws (three each side). These cannot be accessed once the EV charger has been mounted onto the wall.

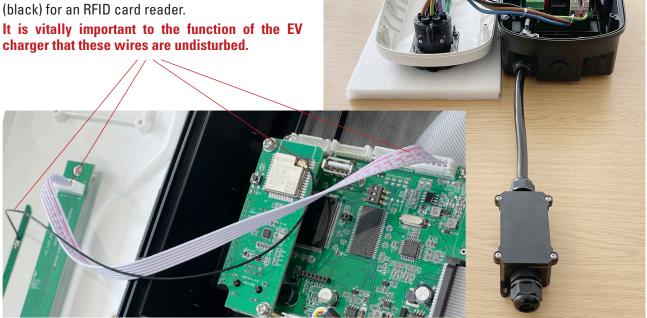
Lay the Zodiac face down on a level surface taking great care not to scratch the faceplate. Use the foam sheets from the original packaging to protect it.

In addition to the power cables to the charging socket (Untethered version) there is a communications antenna wire (black) and power cable to the LED status indicator light (white/red ribbon) attached to the back of the faceplate.

On some models there is an additional antenna wire (black) for an RFID card reader.

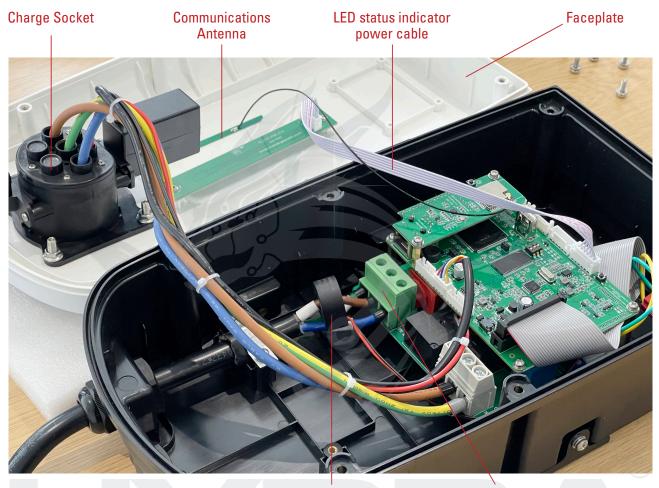
charger that these wires are undisturbed.







INSIDE THE ZODIAC EV CHARGER (UNTETHERED MODEL)



CT clamp

Power-in Connection

Above shows the single-phase 7kW Hydra Zodiac with the quick-connect tail attached. When disconnecting this to attach the power cable direct to the charger the CT clamp needs to be re-installed on the live feed.

See next page for important note regarding the orientation of the CT clamp.

The terminals on the model above (from left) are PE, L, N

Please always check the board for correct orientation and wiring order. Some Zodiac models may be configured as PE, N, L (see below for location)



A 5-terminal block is fitted to the 22kW, three-phase model, and also on some 7kW models. (see below)

Here the terminals are designated PE, N, L1, L2, L3

Always check wiring order marked on PCB





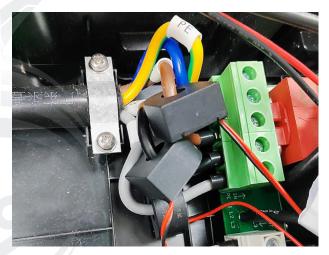
CT CLAMP ORIENTATION

Please make sure that the orientation of the CT clamp is correct (where fitted): The Black/Red wire exiting the CT clamp should face the direction of the board to achieve a correct reading. If the side of the CT clamp with these wires is facing away from the board it will not give accurate readings.

For the three-phase Hydra Zodiac (below right) each CT clamp needs to be re-attached to the correct feed and with the correct orientation (black/red wire facing the board).

(Please Note: Some models take the reading direct from the board and no separate CT clamp is used)





ACCESS PORTS UNDER THE ZODIAC CHARGER



The Hydra Zodiac has three access ports underneath, these are for:

Power in (LEFT on all models), RJ45 Ethernet cable (CENTRE on some models),

Charging Cable Out (RIGHT on tethered models only)





RJ45 Ethernet port (centre on some models)

COMMISSIONING



POWER-ON PROCESS

Ensure that the charger is installed properly and attached securely to the wall. Check that the wires are wired correctly and the charger can be powered up.

After the Zodiac charger is powered up the LED indicator light on the faceplate should be blue, either flashing or steady and constant.

If it does not show a blue indicator light please refer to the apendix of the manual where it describes different LED indicator status lights.

CHARGING OPERATION

There are two methods to commence charging: simple Plug and Play or via the smartphone App, HOMECHARGE. Before charging, please make sure that the charging cable is firmly inserted into the charging port of the vehicle.

If you intend to use the App to facilitate charging, please use the APP to scan the QR code when using it for the first time, and turn on Bluetooth of the smartphone for Bluetooth networking. After the pairing process is completed, follow the App prompts to commence charging.

Click the charger information in the App to view the current output capability of the Zodiac EV charger and information of the running status.

If the running status displays an alarm or error message, charging cannot be performed. You will need to go through the troubleshooting process outlined at the end of this document.

When the preselected charge level is reached or the vehicle sends a stop command, the charger automatically stops charging.

EMERGENCY OPERATION

Refer to this section only if an exception has occurred or the charger has been mishandled.

Emergency stop: In the event of an emergency, quickly remove the transparent protective cover (if present) and press the metal/ silver Emergency Stop button to cut off the output power supply. Do not use the Emergency Stop button for normal shutdown.



The Emergency Stop button and its location (right hand side of the Zodiac if facing the charger)

FORCED UNPLUGGING AND RECOVERY

Forced unplugging of the charging outlet is prohibited during charging!

If the normal stop operation does not occur, it is recommended to press the Emergency Stop button and then manually unlock to prohibit forced pull-out of the outlet.

COMMISSIONING



DOWNLOAD THE APP

For iPhones, please use App store to search "**Hydra Home**" to download and install the app.

For Android phones, please use Google Play to search "Hydra Home" to download and install the app.



REGISTER AND LOGIN

We have produced a comprehensive **User Guide** for the **HYDRA HOME App** which is accessible online. Scan the QR code found in the packaging or on download it here: **www.hydraev.co.uk/support**

CHECK BEFORE COMMISSIONING

BEFORE STARTING COMMISSIONING WORK, THE FOLLOWING CONDITIONS NEED TO BE PREPARED AND VALIDATED:

- All preparation, installation, connections, etc. have been completed.
- 🤌 The charger input power supply has been connected and the charger power-up capacity is already available.
- If there is no Wi-Fi signal, the network needs to be connected via a wired network.
- The site must be staffed by a full-time security officer for safety supervision.

POWER-ON CHECK

Once the charger is connected to AC power, check the LED light is on and pulsing blue to signal that is in an idle/ready state. Next configure the network connection via the APP.

CHARGING OPERATION

- 5 Connect an electric car or test device. The charger must show that the electric vehicle is connected.
- 5 Use the APP or plug and play to start charging and check the charger starts normal
- Check the charger's alarm light is green and the module is working.

AFTER-SALES MAINTENANCE



AFTER-SALES SERVICE

- Parts are covered by a three-year warranty.
- During this period any defective part will be replaced.
- One-to-one technical engineer support is available.

DISCLAIMER

Product equipment must be used under certain conditions. Should the following circumstances lead to an accident or damage, we will not be held responsible.

- All human factors, damage and use in an abnormal working environment
- Failures and damage caused by improperly using the device or not following instructions.
- Damage caused by transport after delivery.
- Normal wear, breach or immersion.
- Use of parts not authorised by the manufacturer (such as aftermarket or counterfeit parts).
- Dismantling, repairing or modifying the products without the prior consent of the company.
- Damage caused by flood, fire, lightning strike, typhoons, earthquakes or abnormal voltage.
- Accidents, faults or damages outside the warranty period.

MAINTENANCE

DAILY MAINTENANCE

Regular servicing maintains the charger's safety and condition.

REGULAR MAINTENANCE

MONTHLY

- Check the charger is still perfectly upright.
- Clean any dirt on the outer surface.
- Check for damage to the painted surface.
- Test the charging outlets and cables.
- Check the LED display status.

QUARTERLY

- \oint Check the ground screw and ground resistance (no greater than 1Ω).
- Check the charger's alarm light is green and the module is working.

continued...

AFTER-SALES MAINTENANCE



MAINTENANCE

SEMI-ANNUALLY

Check ground bolt torque and tighten if required.

ANNUALLY

Check all internal components.

ON-SITE MAINTENANCE

This device is an internet of Things-type charger with pre-charge self-test, daily regular self-test, online monitoring of electrical parts and other intelligent functions.

- f working, simply perform routine maintenance, no overhaul maintenance is required.
- f not working properly, promptly contact the customer service centre or local supplier.

REMOTE MAINTENANCE

The charger has the function of connecting to the device cloud platform to monitor the status of the charger in real time. When connected, the platform can provide perfect remote diagnosis, remote service and remote upgrade services. It can also locate problems and provide solutions to help the operation centre carry out remote services. It can remotely upgrade software, solve end-user problems and carry out unattended operations.

- The system self-tests daily. If there is an issue, it will escalate it automatically.
- f there is an abnormal operation, please contact the customer service centre or local supplier promptly.
- Service engineers can query logs, update configuration and procedures, carry out remote management, diagnosis, configuration, upgrades and other remote maintenance actions.



PROCEDURES



DURING INSTALLATION, REPAIR AND REPLACEMENT OF SPARE PARTS

- Live work is strictly prohibited.
- Unauthorised dismantling is strictly prohibited.
- Follow safety procedures when operating the equipment.
- Access to the power supply line should be followed in the PE ground -> zero-line -> phase line order.
- All operations must comply strictly with relevant safety standards.

AFTER INSTALLATION, REPAIR AND REPLACEMENT OF SPARE PARTS

- Refer to the installation and maintenance requirements for validation and testing.
- Bring your own tools to restore the internal switch.
- Lock the safety door for the device to operate safely.



APPENDIX



LED INDICATOR STATUS IDENTIFICATION

Indicator light	Description
Red	Issue detected
Green	Charging
Blue	Ready
On, static	OCPP is connected
Flashing	OCPP is disconnected

FAULT DIAGNOSTICS (CAUSE AND RESOLUTION)

Fault	Potential cause	Recommended solution		
LED display not illuminated	No AC power input.	Check whether there is power to the charger is normal. Check whether the power cable to the devise has a short circuit. If these checks are normal, please try to power off the Zodiac charger and restart. If the fault persists, please contact your EV chargepoint installer or Hydra EVC support.		
Cannot lock the charging connector	The charging gun is not properly connected with the charging port of the car or the electronic lock or the charging gun is faulty.	Remove and reconnect the charging gun ensuring it is properly seated within the car and the Zodiac charger. Restart the Zodiac charger using the emergency stop button. Try a different charging cable if possible. If the fault persists, please contact your EV chargepoint installer or Hydra EVC support.		
Cannot unlock charging connector	The electronic lock of the charging gun is faulty or stuck.	Restart the Zodiac charger by pressing the emergency stop or power off to allow you to disconnect the charging gun. If the fault is still not eliminated after reconnecting, please contact your EV chargepoint installer or Hydra EVC support.		
Unusual LED indicator light status	The emergency stop button may have been pressed or the charger is faulty.	Please refer to the appendix later in this document for the description of the LED status indicator lights. Try to power off and restart. If the red light is illuminated or flashing, please make sure that the emergency stop button is pressed first. If it is pressed, please press it again to reset. If the fault is still not rectified, please contact your EV chargepoint installer or Hydra EVC support.		
Other issues not covered above. There may be many reasons, please contact our company.				

APPENDIX



RESTRICTION OF HAZARDOUS SUBSTANCES

ELEMENT IDENTIFICATION TABLES (ROHS)

PART	TOXIC AND HARMFUL SUBSTANCES OR ELEMENTS					
	Lead	Mercury	Cadmium	Hexavalent chromium	Polybrominated biphenyl	Polybrominated diphenyl ethers
	PB	HG	CD	CR6+	PBB	PBDE
Cabinet, box and copper row	х	1.	9.	•	•	•
Charging module	х		• /	•	•	•
Monitoring module	х	у х	•		•	•
Distribution parts	x		х		•	•
Circuit board	х	•	•	•	•	•
Hardware	x	•	•	-//-	•	•
Cable	х	•	. (•	•

[•] Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T 11363-2006

x Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T 11363-2006

The following components or applications containing toxic and harmful substances are limited by the current level of technology, with no reliable alternative or solution:

- 1. Solder contains lead
- 2. Copper alloys contain lead
- 3. The contacts of the switch contain cadmium
- 4. The backlight tube contains mercury

Description of the environmentally friendly use period: the environmentally friendly use period of this product (marked in the product body) refers to the period of time from the date of production of the product containing toxic and harmful substances or elements that will not have a serious impact on the environment, persons and property, subject to normal conditions of use and compliance with the safety precautions of this product.

SCOPE OF APPLICATION: AC SINGLE OUTLET CHARGER

APPENDIX



AUTHENTICATION

CERTIFICATION





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