HYDRA®

ELECTRIC VEHICLE CHARGERS

ECHO

AC Wall-Mounted EV charger

ELECTRIC VEHICLE CHARGER INSTALLATION AND INSTRUCTION MANUAL

ECHO-V0002-02/08/2022

CONTENTS

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SAFETY

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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

	Indicates that care must be taken with the operation or condition of hazardous voltage
	Important security information must be followed very carefully
	Indicates risk of burns from high-temperature areas or areas with high component temperatures
	Ground protected connection point
	DC electricity
	AC electricity
	Indicates that the said action must be performed using clothing and/or personal protective equipment provided by the employer
	Type A Residual Current Devices (RCD)
	Type B Residual Current Devices (RCD)

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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.

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 electric cabinet. 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.

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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.

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.

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INTRODUCTION

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SERIAL NUMBER DESCRIPTION

AC003	09	T1	A01	No	ROU0120030002
1	2	3	4	5	6

6	PILE ID NUMBER ROU01 2003 0002 - ROMANIA CUSTOMER LIST 1,2 MARCH 20, PILE 0002
5	FOUNDRY
4	BOM VERSION
3	STANDARD: T2: TYPE2 AC T1: TYPE1 AC GA: GB/T AC C2: CCS2 C1: CCS1 J CHADEMO GD: GB/T DC
2	CHARGING POWER: TYPE2 AC PILE RATED POWER 22KW CCS2 PILE RATED POWER 40KW CHADEMO PILE RATED POWER 20KW
1	PRODUCT MODEL: AC001- PLASTIC HOUSING 1 AC PILE AC002- METAL COLUMN AC PILE AC003- ALUMINUM AC PILE AC004- PLASTIC HOUSING 2 AC PILE AC005- METAL SHELL AC PILE AC006- POLYCARBONATE REINFORCED ABS AC PILE PAC- ADVERTISING AC PILE

The HYDRA ECHO wall-mounted AC charger can be configured with Type 1 J1772, Type 2 cable (tethered) or socket (untethered). The system can be installed outdoors (but for safety reasons, if the water level reaches the charger connector, it should not be used in rainy or snowy conditions).

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APPEARANCE

Use	Car Parks / Public Charging Station
Material	Metal housing
Installation type	Wall Mounted
Cable layout	Bottom
Weight	5-10kg
Cable length	4m
Charging socket	Type1 or Type2

1 Touch Screen
2 Door Lock
3 RFID Card reader
4 LED status lights
5 Power input
6 RJ45 input
7 Charger Output (tethered)

Not shown:
Charger cable socket (untethered model)

INTRODUCTION

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TECHNICAL SPECIFICATIONS

COMPONENT SPECIFICATIONS	Dimensions	211(L)x138(W)x320(H)mm
	Weight	5kg (no cable) -10kg (with cable)
	Cable length	≥4.2m/SOCKET
	Shell material	Aluminium Alloy
	Screen	5" LCD touch screen
POWER CHARACTERISTICS	Input voltage	TN-S 240V AC (single phase) 400V AC (three phase) ±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	7kW/22kW-32A
	Efficiency	≥94%
	Factor	≥0.99
DESIGN FEATURES	UI	RFID Card Reader, LCD touch screen, Emergency Stop Button
	Standard	GB/T, TYPE1 J1772, TYPE2 and IEC61851-1/2017
COMMUNICATION	Web interface	Wired Ethernet, Wi-Fi, 3G/4G
	OCPP	OCPP 1.6J

TECHNICAL SPECIFICATIONS (CONTINUED)

WORKING ENVIRONMENT	Use	Indoor/Outdoor
	Operating temperature	-30°C ~ +55°C
	Operating humidity	5% to 95%
	Elevation	<2000m
	Protection level	IP55
	Cooling method	Ambient air cooling
	Ground detection	30mA
	Sound level	≤50db (normal input/output power at ambient 25°C)
	RoHS	Meets the R5 requirements of the RoHS directive

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PRODUCT FEATURES

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

SAFETY FEATURES

- Hardware protection features:
  - Overcurrent protection
  - Overvoltage protection
  - Over-temperature protection
  - Emergency stop protection
  - Lightning protection
  - Type B RCD
- Comprehensive software protection features, providing multiple protections
- Meets IEC61851-22 requirements
- All components have CE certificates
- The SECC controller has gone through the TÜV test

SMART

- The terminal charger is connected to the Open Charge Point Protocol platform online
- Remote diagnostics, remote upgrades
- Compatible with GB/T, Type1-SAEJ1772, Type 2 and IEC61851-1/2017
- Internal high-precision MID AC meter
- Supports simultaneous charging of multiple connectors
- The OCPP platform sets the maximum output power according to the time period
- Support for credit card Point Of Sale payment (optional)
- 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
  - Auto filled

OPTIONAL FEATURES

- Plug&Charge (optional)

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SYSTEM ARCHITECTURE

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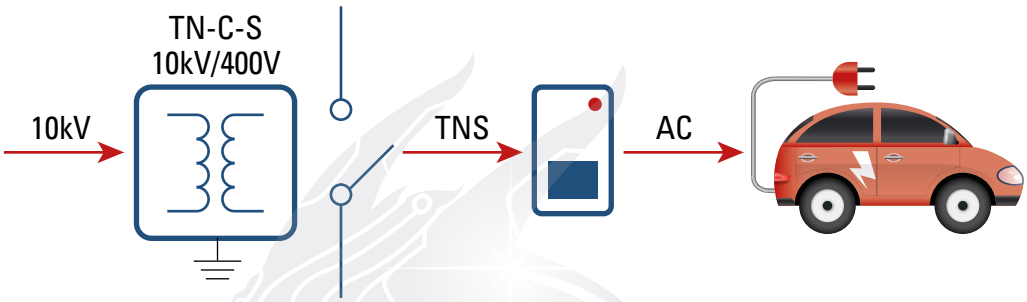
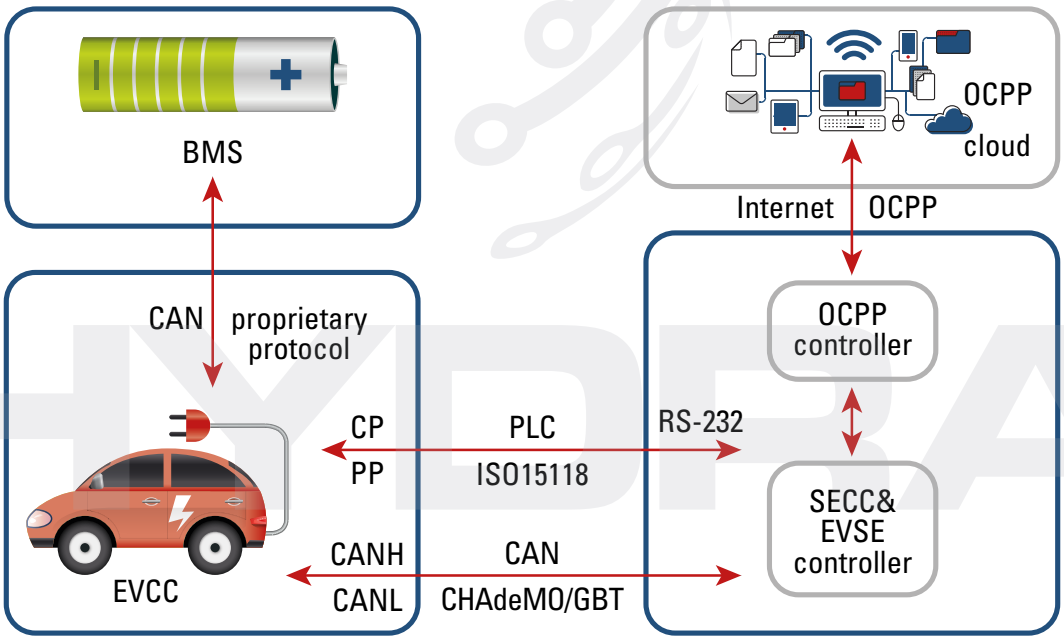
ELECTRIC

Transformer - Switch - Charger - Car



INTERNAL SYSTEM COMMUNICATIONS



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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.

NETWORK CONNECTIVITY REQUIREMENTS

The recommended way to connect to the network is to access 4G wireless communication or a Wi-Fi module integrated in the charger. A SIM card meeting local networking requirements is required. Make sure the local signal strength is strong and stable; otherwise a signal amplifier must be installed.

If there is no local 3G/4G communication signal, a standard wired internet connection is available. Wired connections must meet the following requirements:

- RJ45 Ethernet
- Network 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

- Demand connection reliability: 99.9%.

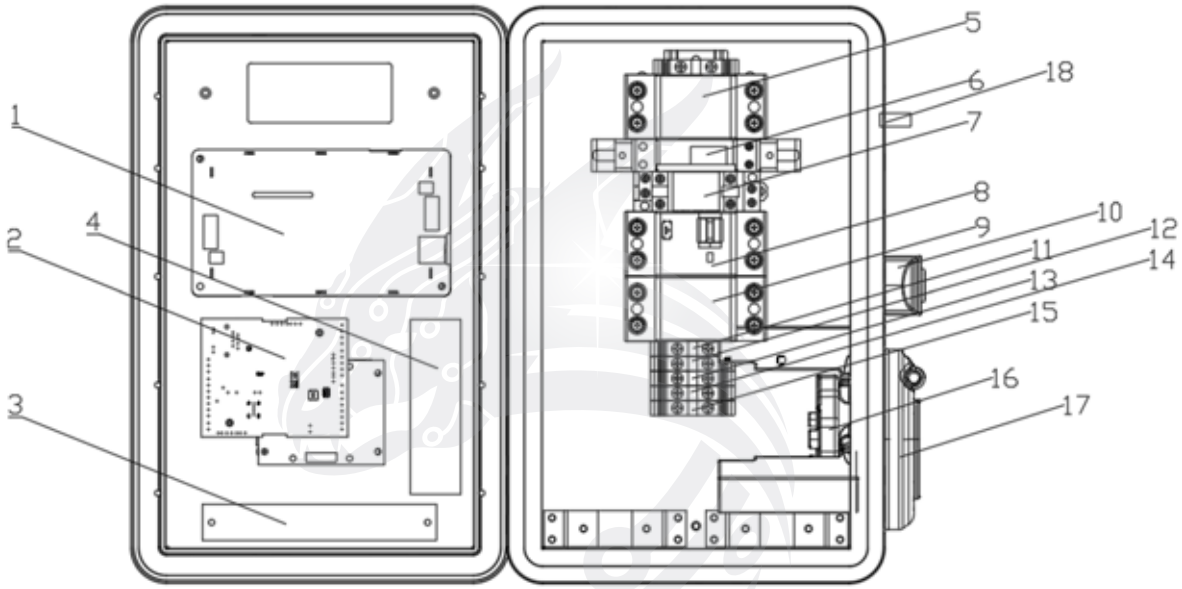
- For special configurations, please contact us.

TOOL PREPARATION

STANDARD TOOLS

NAME	DESCRIPTION	QTY
Multimeter	Checking the electrical connections and electrical parameters	1
Electric impact drill	Drilling	1
Impact drill bit (Ø 14mm)	Drilling	2
Tape measure (5m)	Measurement	1
Level ruler	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
Light hammer	Unpacking, tapping, adjustment	1
Carrying equipment	Moving and hoisting charger	1
PVC tape and sheath	Insulation tape and insulation cladding connection	1
Personal protection tools	Ensuring the health and safety of operators	1

INTERNAL STRUCTURE



1	Touch screen
2	OCPP client controller
3	LED status indicator
4	ANT
5	Contactor
6	Power Supply
7	Relay
8	RCD
9	Meter
10	Door Lock
11	L1
12	N
13	PE
14	CP
15	PD
16	Electronic lock (untethered only)
17	Charging Lead Socket (untethered only)
18	Emergency Stop

SITE SPACE REQUIREMENTS

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

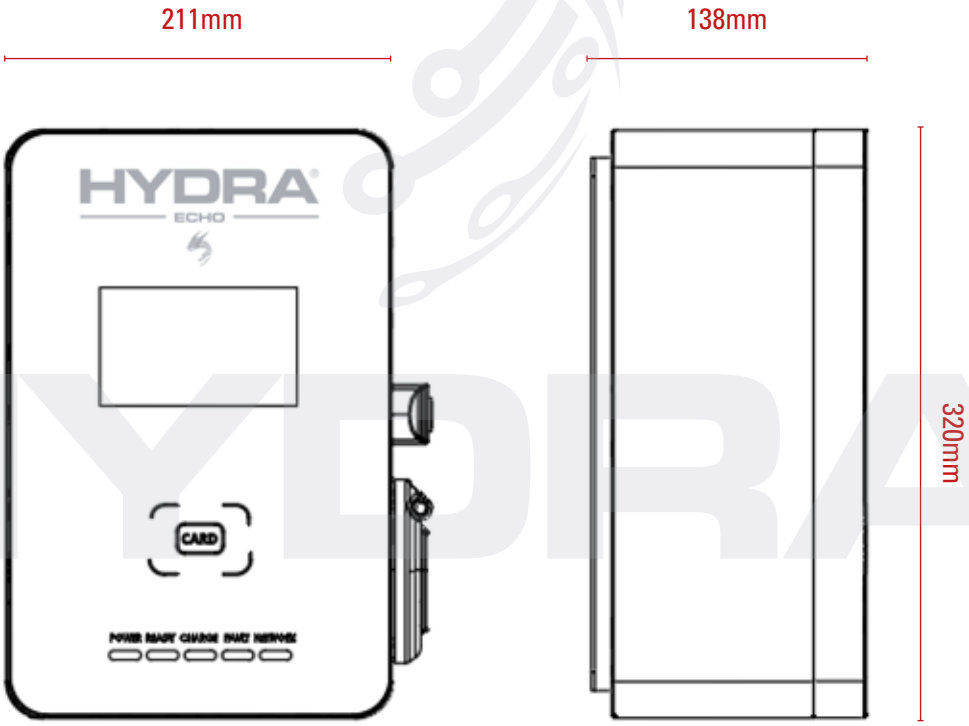
Installation requires 550 x 720 mm of space, calculated as follows:

Product size: 211mm(L) X 138mm(W) x 320(H)mm, excluding cable hangers and accessories.

Front reserved spacing ≥400mm to ensure the front door open/close operation is normal and all related operations are unhindered.

- Left reserved spacing ≥ 200mm to ensure operating space.
- Right-hand reserved spacing ≥ 500mm to ensure operating space.
- Rear reserved spacing ≥ 100mm to ensure operating space.

Dimensions (from above)



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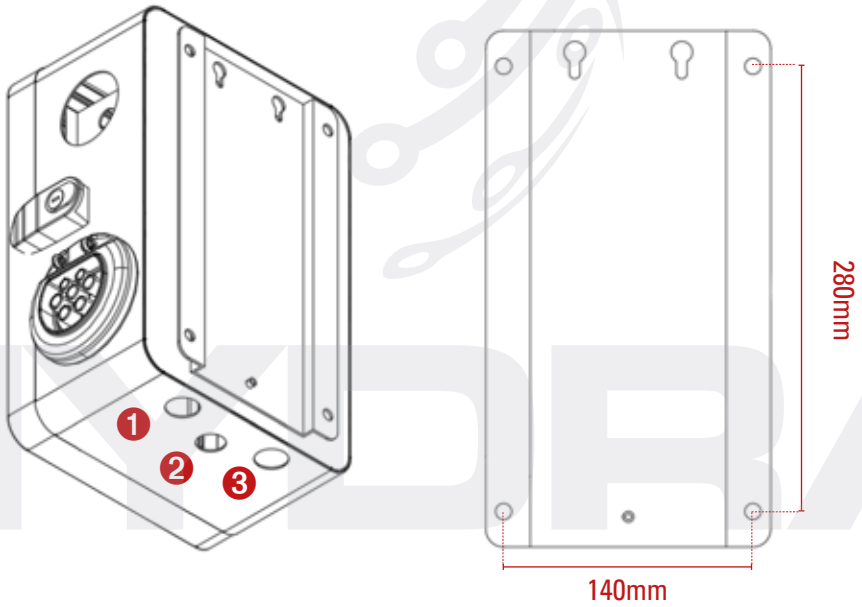
INSTALLATION INSTRUCTIONS

TRANSFER LOADING AND UNLOADING

- Do not drop or hit the device.

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



1 Charging Power Cable (tethered version)
2 RJ45
3 Power inlet

ELECTRICAL REQUIREMENTS

Cable type: Three-phase, five-wire (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.
- 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 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	22	43
Input voltage(V)	230V	400V	
Input current(A)	32	32	63
Recommended line diameter (mm2)	6	6	10

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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.

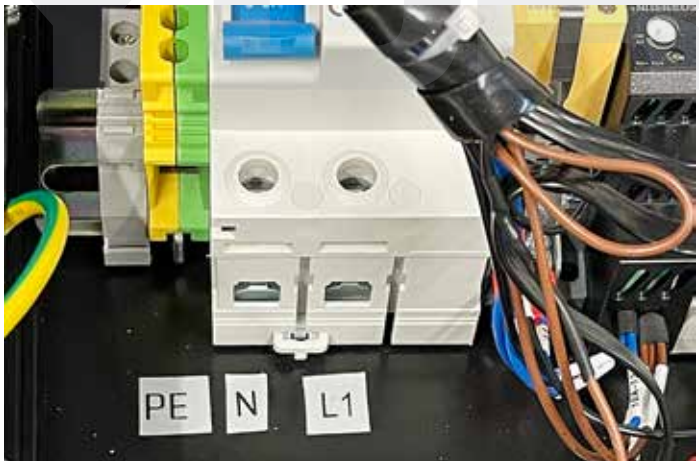
CONNECT THE AC INPUT

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.
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	Brown	Blue	Yellow & Green
Phase order	L	N	PE

The AC input can be introduced from the bottom of the cabinet through a trench and connected sequentially to the corresponding terminal.

PHASE LINE / ZERO STUD / IDENTIFICATION CHART



COMMISSIONING

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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 3G/4G 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.
- Arrange the operation representative and accept the on-site guidance of the charging operation.

POWER-ON CHECK

- Once the charger is connected to AC power, check for fault alarms on the LED display and check the charging module is working properly. Configure the network information, check the network connection status and signal strength.

CHARGING OPERATION

- Connect an electric car or test device. The charger must show that the electric vehicle is connected.
- Swipe the RFID card or use the App to start charging and check the charger starts normally.
- Check the charger's alarm light is green and the module is working.

POWER-ON PROCESS

After ensuring that the charger installation is complete, the wiring is accurate, and the overall commissioning is complete, the charger can be powered on.

Confirm that AC circuit breakers and contactors are disconnected and switch on the AC feed. The charger should not emit an alarm or show an abnormal state signal.

The closed AC circuit breaker, other switching devices and the charger screen and indicators should be illuminated. The interface shows the door alarm, fault indicator on, indicating that the access control system is working normally.

Check that the components are working properly and close the doors. The fault indicator should turn off.

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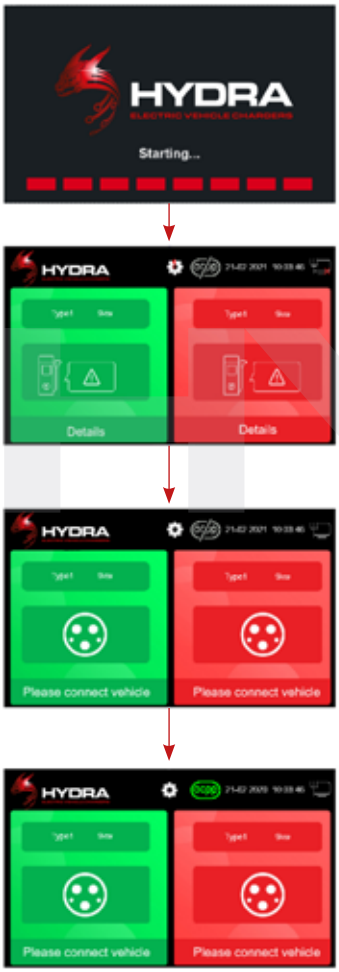
SWITCH CHART

POWER ON STANDBY FLOWCHART



1. Boot up
2. Power On Self Test
3. When connected to the internet
4. OCPP connected

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CHARGING OPERATION

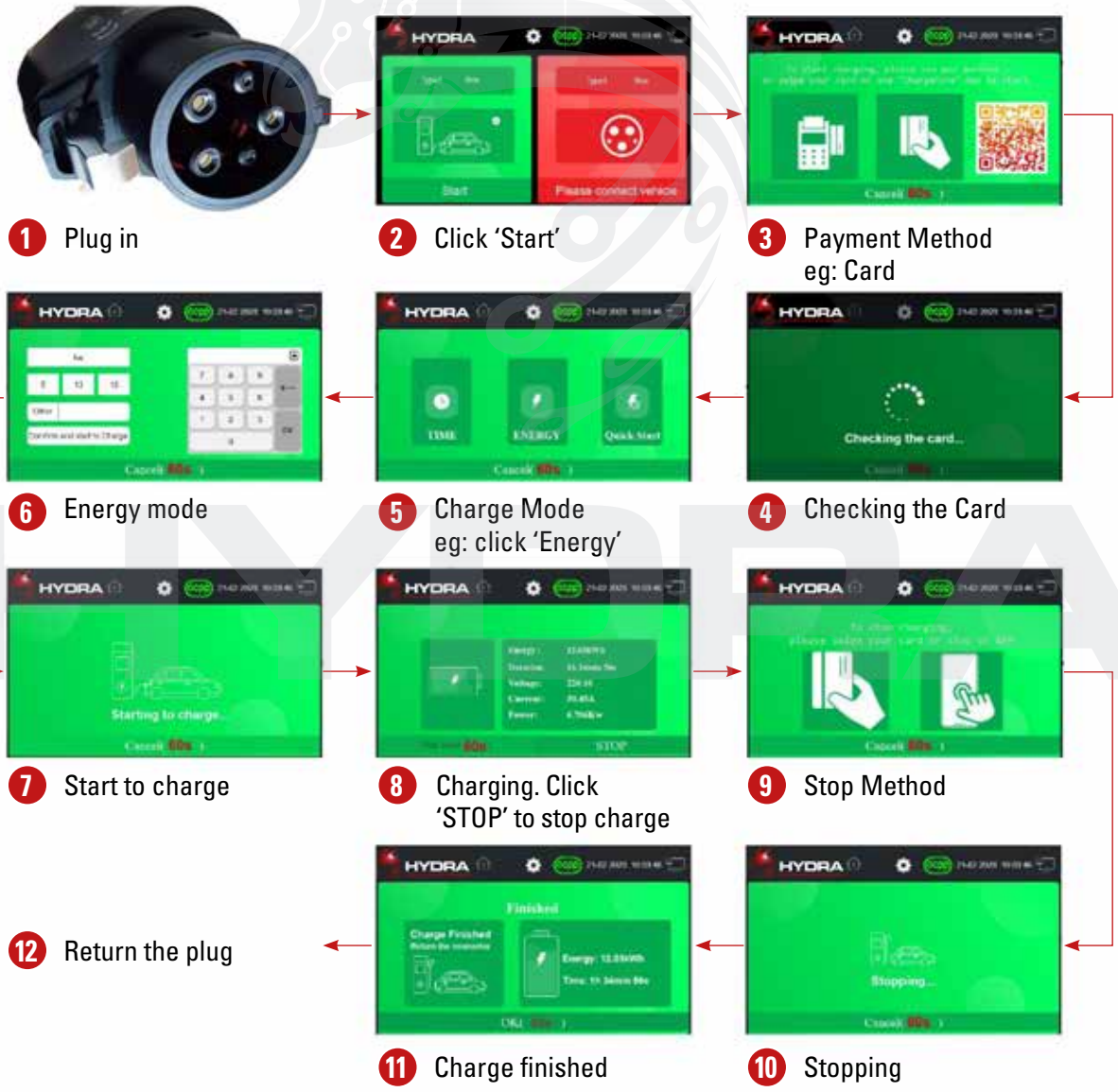
Charging can be carried out in two ways: card-free charging (code scanning, app) and card charging (IC card, POS machine) (optional).

Click on the Charger information to obtain the charger output capacity and operating status information. Note that the charger cannot charge a vehicle if there is an alert showing on the charger. Charges are required after troubleshooting against the fault identification or fault code.

In the charging mode interface, you can choose to charge automatically, by time, by charge, by amount and by percentage.

When the set value is reached or the vehicle issues a stop command, the charger stops charging automatically.

CHARGING OPERATION FLOWCHART



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NON-OPERATIONAL MODE FLOWCHART

CLICK 'CONFIRM' TO COMPLETE SETUP

1 Click on this icon

2 Click this button to change the mode

3 'ON' = Business use

6 Set successfully and automatically return to the BASIC SET menu

4 The current mode 'Non-Business'

5 Click 'Confirm' to complete the change

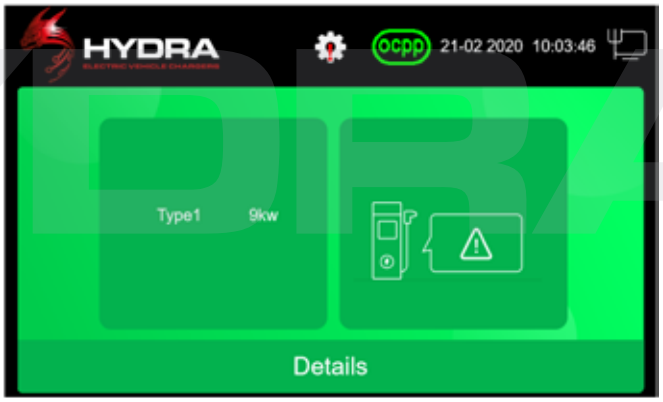
EMERGENCY OPERATION

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 red Emergency Stop button to cut off the output power supply. Do not use the Emergency Stop button for normal shutdown.

Emergency Stop Button Location:

Emergency Stop interface diagram:



FORCED UNPLUGGING & 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.

SETUP

CHANGE PASSWORD

1. Input old password
2. Input new password
3. Re-enter the password to confirm
4. Click 'Confirm' to complete the change
5. Cancel the password change
6. Password changed successfully Displays New Password

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SWITCH TO ETHERNET MODE: AUTOMATIC MODE

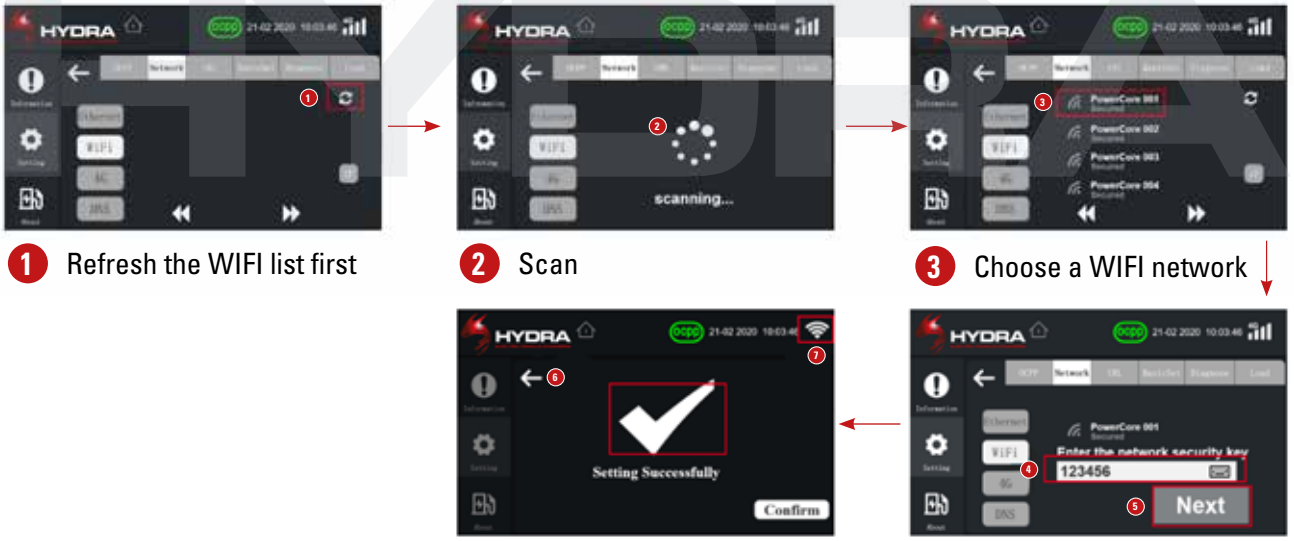
1. The current mode: Automatic
2. Click 'Connect'
3. Loading ...
4. Setting successfully
5. Ethernet icon

USING STATIC IP ADDRESS MODE

1. Use static IP addresses mode
2. Enter the IP address
3. Click 'Connect'
4. Loading ...
5. Setting successfully
6. Ethernet icon

SWITCH TO WIFI MODE

IF THE WIFI LIST IS EMPTY, PLEASE REFRESH THE WIFI NETWORK LIST FIRST



1. Refresh the WIFI list first
2. Scan
3. Choose a WIFI network
4. Enter password
5. Click 'next' to connect to WIFI
6. Setting successfully
7. WIFI icon

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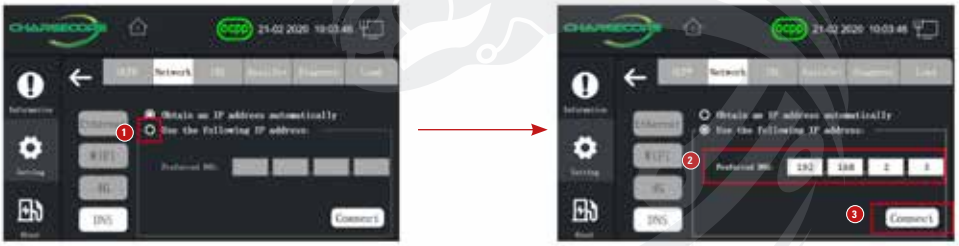
SWITCH TO 4G MODE

1. The current mode: Ethernet
2. Click '4G' to switch to 4G mode
3. Click 'OK'
4. Setting successfully
5. 4G icon

SET DNS



1. Click 'Use the following IP address:'
2. Input DNS:
3. Click 'Connect'

CHANGE THE URL

1. Click on the input box
2. Input new URL
3. Click 'OK'

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PLATFORM CONNECTIVITY

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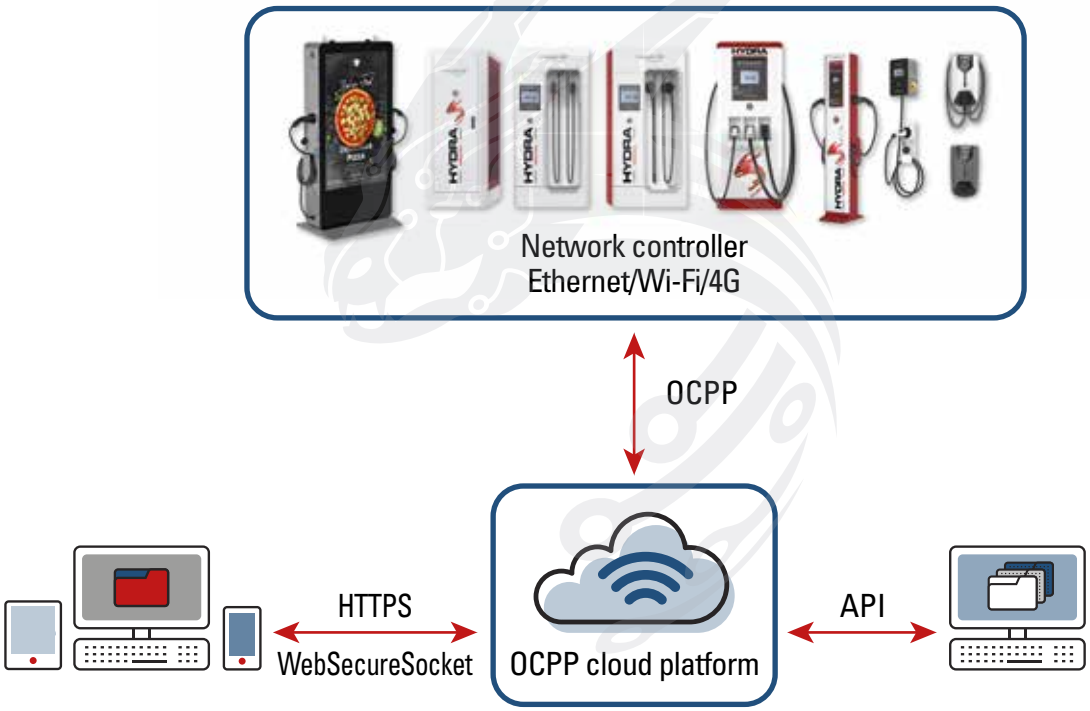
CONNECT TO THE CHARGECORE PLATFORM

When connected to the online Chargecore platform, the charger can perform remote management, diagnosis, configuration, maintenance, upgrades and other functions.

Chargecore platform data interaction diagram



CONNECTION OPERATION

For connection to platform operations, your on-site installer should be able to assist or alternatively contact Hydra EVC Ltd.

Hydra charger support connects customers through OCPP protocol with the existing operating platform. Please contact the Chargecore Sales or Service Engineer.

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AFTER-SALES MAINTENANCE

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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.

Opening the door must be carried out in standby mode and, if necessary, the power input needs to be disconnected.

- 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

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

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MAINTENANCE (CONTINUED)

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.

- If working, simply perform routine maintenance, no overhaul maintenance is required.
- If 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.
- If 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

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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.

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SCREEN ICON KEY

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	Power on Progress bar		Plugged in
SOC Unit: %	Charging mode selection: SoC, % per unit		Charged
	Charging (animation)		Charge completed
	Loading (animation)		Charging has been booked
ocpp	OCPP connected		Fault during charging
ocpp	OCPP connected		Charging outlet not available
	Wired network not connected		Billing charged upon charging
	Wired network connection		The screen is being heated due to ultra-low ambient temperature
	Wired network connected		The screen is not being heated
	Wi-Fi not connected	Type2	European AC standard
	Wi-Fi connected	GBT/AC	Chinese AC standard
4G	4G not connected	Type1	U.S. AC standard
4G	4G connected		Error, go to the administrator interface to see the fault
	No fault		Enable operation mode to save each charging record
	Issue detected		Enable operating mode, no charging records

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FAULT DIAGNOSTICS (CAUSE AND RESOLUTION)

Display status	Potential cause	Recommended solution
The display is black and cannot be illuminated by touch	Charger's AC input is not powered.	Check that the charger input power supply is ok. AC three-phase input voltage should be 240v per phase and line voltage 400v. Check if the input cable is leaking or short-circuited. If the input is fine, try a power-off restart. If the fault is still present, contact our service centre.
Display: splash screen, white screen, cannot display information correctly	Charger runs 24 hours a day, display crashes.	Try a power-off restart. If the fault is still present, contact our service centre.
Display: the charging outlet cannot be locked	The charging connector is not connected to the charging port of the vehicle or the charging connector electronic lock is faulty.	Unplug the charging connector and reconnect. If the fault is still present, contact our service centre.
Display: the charging outlet cannot be unlocked	The charging connector electronic lock is faulty or stuck.	Manually unlock the cable from the charging outlet Contact our service centre.
If none of the above recommendations solve the issue, contact our service centre.		

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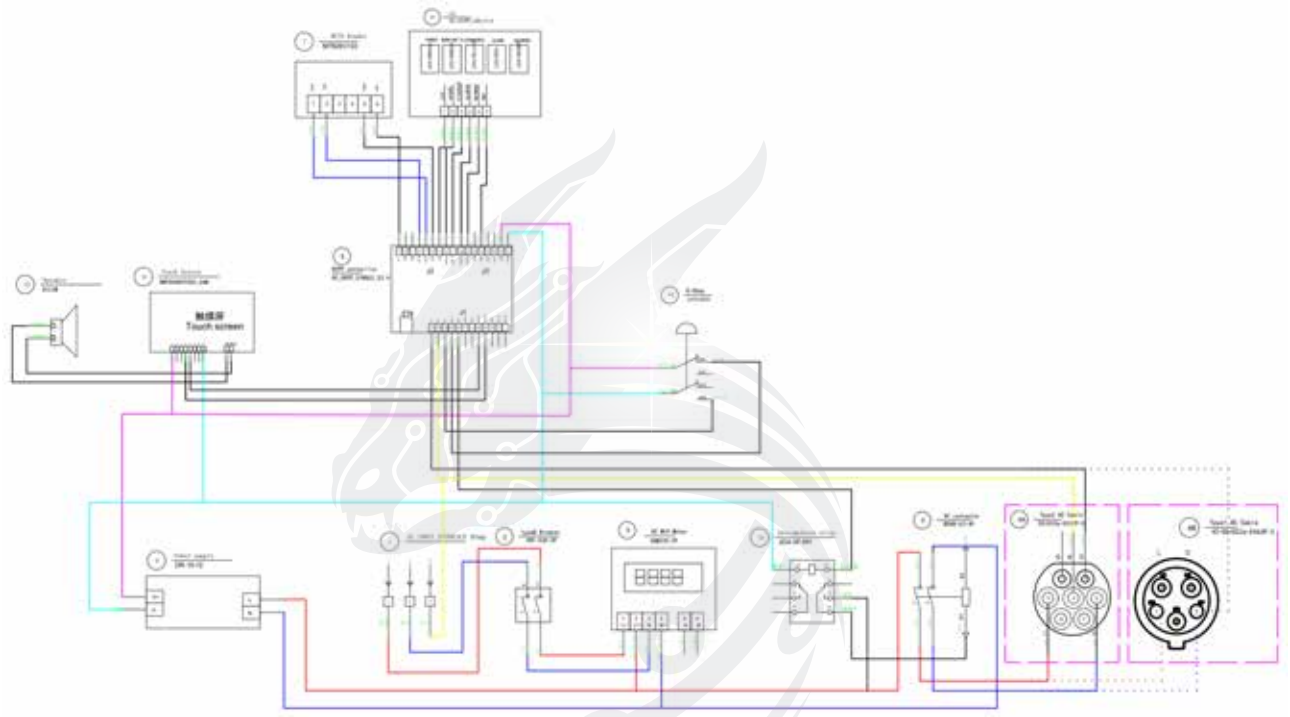
ELECTRICAL DIAGRAM



*6A(EUR)/6B(US) plug shape is different, the plug name and definition are consistent and the wiring is identical

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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	x	•	•	•	•	•
Charging module	x	•	•	•	•	•
Monitoring module	x	x	•	•	•	•
Distribution parts	x	•	x	•	•	•
Circuit board	x	•	•	•	•	•
Hardware	x	•	•	•	•	•
Cable	x	•	•	•	•	•

• 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

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AUTHENTICATION

SECC CERTIFICATE

CERTIFICATE
of Conformity

TÜVRheinland®

Registration No.: AK 50443340 0001

Report No.: 50278629 001

Holder: Nanjing PowerCore technology co., LTD
Room 104-9, block B,
DongManDaSha, No.11 xinghuo road,
jiangbei new district, Nanjing
P. R. China

Product: Controller
Supply Equipment Communication Controller

Identification: Type Designation : PC-SCC12-121
Serial No. : Engineering Sample
Remarks:
Refer to test report 50278629 001 for details.

Tested acc. to: DIN SPEC 70121/12.14

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

Certification Body

Date 08.08.2019

Leeham Zhuang

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

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AUTHENTICATION

SECC CERTIFICATION

POTVRDA O SUKLADNOSTI
ATTESTATION OF CONFORMITY

Broj certifikata / *Certificate Number* : M.2020.103.UY1196
Proizvođač *Applicant* : Nanjing Powercore Tech Co., Ltd.
Manufacturer

Adresa proizvođača : Room 104-9, Block B, Animation Building, 11 Xinghuo
Applicant address *Road, Jiangbei New District, Nanjing, Jiangsu, China*
Manufacturer address

Opis proizvoda : **AC Charger Station**
Product description

Tip / Model : NKR-AC001 (7/11/14/22/43kw),
Type / Model *NKR-AC002(7/11/14/22/43kw),*
NKRAC003(7/11/14/22/43kw),
NKR-AC004(7/11/14/22/43kw),
NKRAC005(7/11/14/22/43kw)

Vezana Direktiva : **DIREKTIVA 2014/35/EU,DIREKTIVA 2014/30/EU**
Related Directives ***LVD 2014/35/EU,EMC 2014/30/EU***

Vezani Standardi : **EN 61851-1:2011, EN 61851-22:2002**
Related Standards ***EN 61000-6-1:2007, EN 61000-6-3:2007+A1:2011***

Izvješće o ispitivanju : GOM191230196T/31.12.2019, B-S200127676/
Test report *13.01.2020*

UDEM Adriatic d.o.o. pregledom tehničke dokumentacije koju je dostavila tvrtka čiji su nazivi i adresa gore navedeni, potvrđuje sukladnost proizvoda s Direktivama 2014/35/EU i EMC 2014/30/EU.

CE

Tvrtka može postaviti oznaku na proizvod, sajedno s EU izjavom o sukladnosti za čiju je izradu odgovoran proizvođač. U slučaju promjene dizajna ovog certifikata koji se odnosi na ispitani proizvod, certifikat prestaje vaziti.
Molim Vas provjerite valjanost certifikata na internet stranici www.udemadriatic.com
Ovaj certifikat je valjan samo za gore navedeni tip/model proizvoda. UDEM i gore navedena tvrtka moraju čuvati primjerak ovog certifikata 15 godina od dana izdavanja certifikata.
Ovaj certifikat je vlasništvo UDEM Adriatic d.o.o i mora biti vraćen na zahtjev.
***UDEM Adriatic** d.o.o. confirms by examining technical documents presented on the part of company which stated title and address below that product is conformable to LVD 2014/35/EU and EMC 2014/30/EU.*
*Company can attach **CE** marking on the product with EU Declaration of Conformity prepared by manufacturer in the charge of company. In case of changing this certificate design regarding to product examined, certificate will be expired. Please check validity of this certificate by website www.udemadriatic.com This certificate is valid just for the product type/models stated below. UDEM and Company above mentioned must retain a copy of these certificates for 15 years since the day of registration. This certificate property belongs to UDEM Adriatic d.o.o and if required it must be returned.*

Datum izdavanja / *Issue Date* : 14.01.2020
Vrijedi do/ Validity date : 13.01.2025

UDEM

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UDFRM.83-2/00-00/13.12.2018

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