



HYDRA[®]

ELECTRIC VEHICLE CHARGERS



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Zodiac DLB

Dynamic Load Balancing

INSTALLATION MANUAL

INTRODUCTION



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The home load balancer can maintain the dynamic balance of the total household current, to ensure the safety of electricity consumption, and to avoid the overload of household electricity when the chargepoint is charging. A home load balancer consists of a transmitter and a receiver. The transmitter needs to be installed at the main incoming line of the household power supply to transmit the sensed current data to the receiver. The receiving end is located inside the household AC chargepoint (the chargepoint needs to be purchased additionally), and receives the data from the transmitting end.

Size	90mmX90mmX38mm
Support voltage/current	1 Phase:230V±10% 50/60Hz,100A 3 Phase:400V±10% 50/60Hz,100A(per phase)
Interfacet	Household line transformer interface 3
Indicator light	LED 2 RED+GREEN
Power supply	CT induction power supply
Transfer method	Wireless transmission
Button	Pair key 1
IP	IP31
Operating temperature	-20 °C to +40 °C
Storage temperature	-40 °C to +70 °C
Working humidity	5%-95% No-condensing
Working altitude	2000 m
Installation method	Back panel + guide rail / buckle
Transformer installation method	Open lock
Shell material	ABS

DISCLAIMER OF WARRANTY AND LIMITATION OF LIABILITY

All information, specifications and illustrations in this manual are based on the latest information available at the time of printing, images and illustrations depicted in the manual may differ slightly from actual products.

Hydra EVC Ltd reserves the right to make changes at any time without prior notice. Although this manual has been carefully checked, it does not guarantee the completeness and correctness of the contents of the manual, including but not limited to product specifications, functions, illustrations, etc.

Before operating or maintaining this product, please read this manual carefully and pay special attention to safety warnings and precautions.

Note: This document is intended to guide professional electricians and installers through the use and on-site installation of the Hydra home dynamic load balancer.

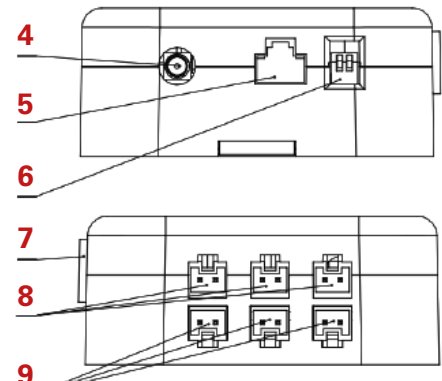
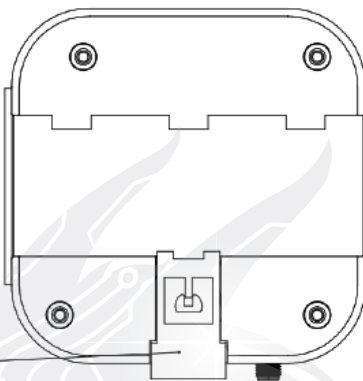
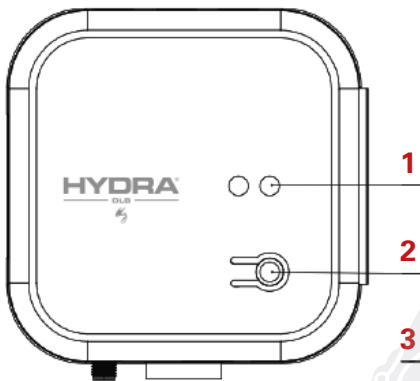
If you use the equipment in a manner other than described in this manual or other related documents, death, injury and property damage could occur.

INTRODUCTION



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THE TRANSMITTER

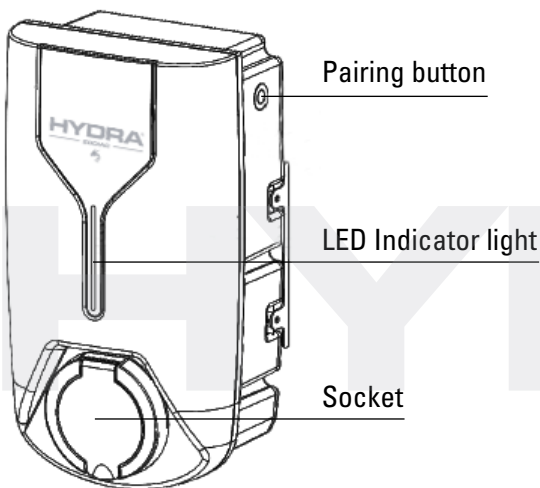


- 1 Indicator light
- 2 Pairing button
- 3 Rail buckle

- 4 Guide antenna interface
- 5 RJ45 interface
- 6 DIP switch

- 7 Rubber stopper
- 8 CT interface
- 9 Reserved interface

THE RECEIVER (THE ZODIAC)



INSTALLATION



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This device can only be used indoors or inside a cabinet, not outdoors. When selecting an installation site for the device, consider the environmental conditions listed in the table below.

Equipment recommended installation environment table

Ambient temperature	-20°C~+40°C
Altitude	≤2000m
Humidity	5%~95%RH
Dust	≤1mg/m ³
Corrosive substances	Free from pollutants such as salt, acid, smoke, etc.
Shock	≤1.5mm/s
Damp	Rainproof, protection above IPX4
Fire protection	No flammables nearby

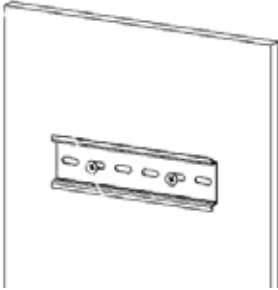
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INSTALLATION

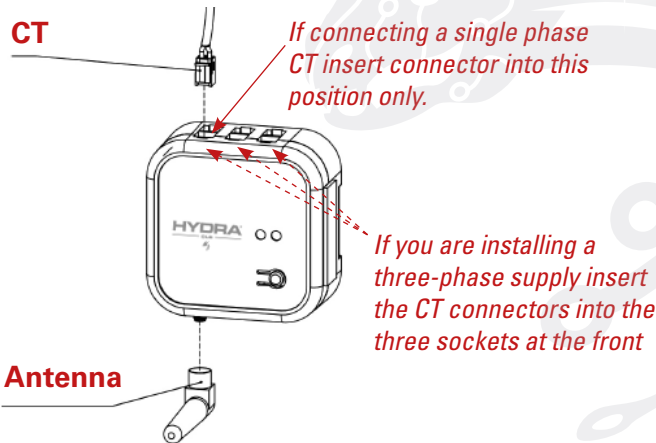


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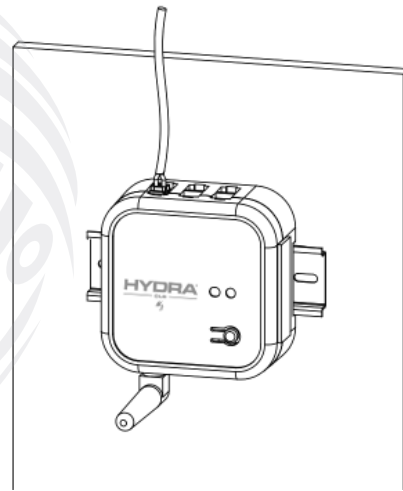
1 Install the DIN rail on the wall



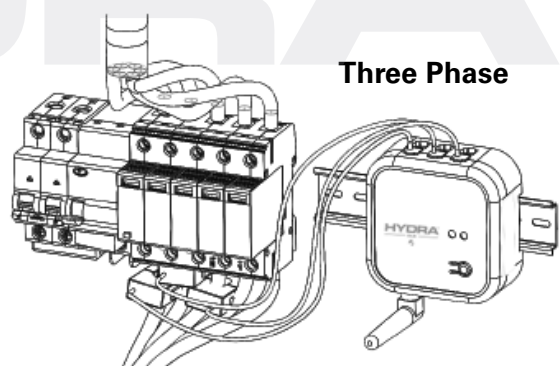
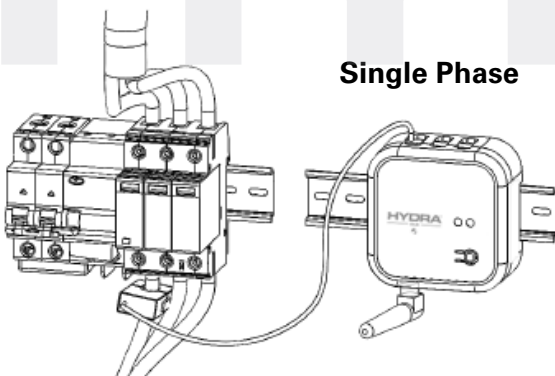
2 Connect the transformer (CT) and antenna



3 Connect the transformer (CT) and antenna



4 Connect the transformer (CT) to the main power line of the household, connect the single phase to the L phase line, and connect the three phases to the L1, L2, and L3 phase



5 Please refer to the HYDRA ZODIAC installation manual for installation instructions (download from www.hydraev.co.uk/support)

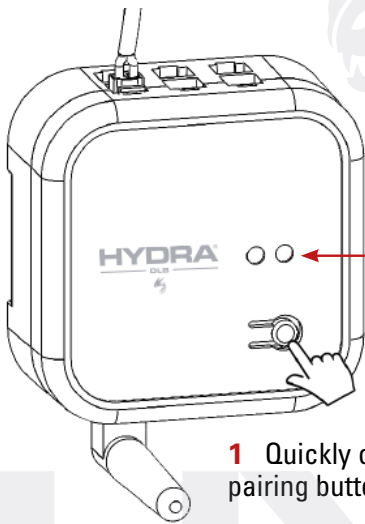
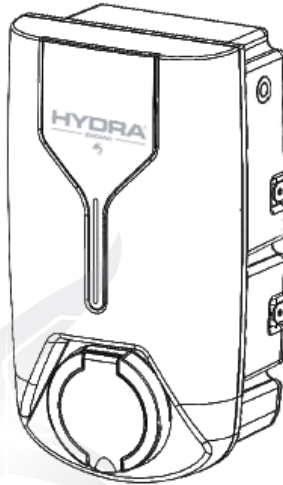
PAIRING



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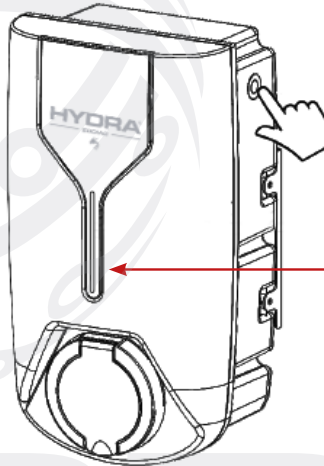


Wireless
Pairing



1 Quickly click the pairing button 3 times

2 The indicator light flashes red and green

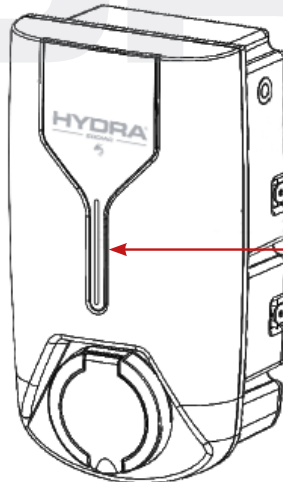


3 Quickly click the button in and out 3 times (a total of 6 presses of the button)

4 The indicator light flashes red, green and blue alternately



5 The green light will flash



6 The Blue light remains illuminated

SETTING UP THE APP



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AFTER THE PAIRING IS COMPLETED

1 Please scan the corresponding QR code to download the **HYDRA HOME** app and complete the registration.



ANDROID



IPHONE

2 Pair the Hydra Home App to the Zodiac Chargepoint and set up according to instructions in the app manual: www.hydraev.co.uk/support

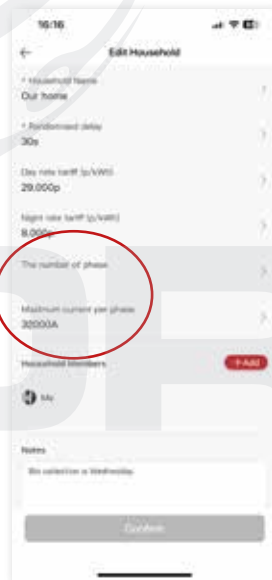
Tap the icon in the upper left corner



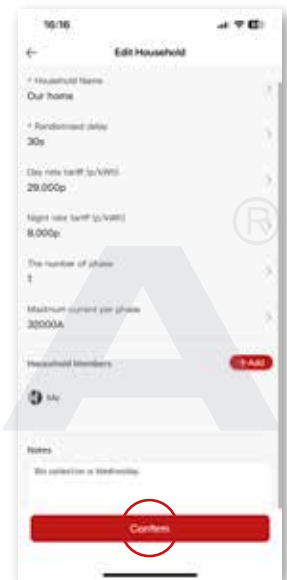
Tap on Household Settings



Set the number of power phases and maximum current



Tap confirm button



Note: Professionals must confirm the maximum load capacity of the family and set the corresponding value.

When the household power supply is single-phase power supply, only one transformer (CT) is used, and the household load balancer starts to work when the total electricity consumption current of the household needs to exceed 20A. When the current is less than 20A, the home load balancer remains off.

When the household power supply is three-phase power supply, three transformers (CT) are used, and the household load balancer starts to work when the total household power current needs to exceed 10A. When the current is less than 10A, the home load balancer remains off.

TROUBLESHOOTING



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Fault state	RECOMMENDED TREATMENT
Equalizer light is off	Check whether the front-end charging transformer is good or bad and whether the connection is correct; check whether the input current reaches the minimum current value required for work.
The equalizer light is on, but there is no communication	Check whether the pairing is successful; check whether the distance between the transmitter and receiver is too far or there are many obstacles; check whether the charging pile is powered on; check whether the APP is set correctly.
Still tripping after using equalizer	Check whether the maximum current set on the APP is correct.
Unable to pair	Check whether the pairing operation is correct; check whether the transmitter and receiver are in pairing mode; check whether the distance between the transmitter and receiver is too far or there are many obstacles.
Other problems	Please contact our after-sales service.

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