



Home Pro

[7.4kW] Wifi

[V2.0]

AUS – Product manual



Product code: HP5-07AU-WI-BLSTD-01 / HP8-07AU-WI-BLSTD-01
Ohme Home Pro – Type 2

Scan the QR code for more information
on how to set up your Ohme charger



Contents

Safety Precautions	3
Welcome to Ohme.....	4
Download the app	4
Your charger information	4
Product Specification.....	5
Product Description	5
Vehicle Integrations – An Ohme Labs feature.....	6
Installation	6
Troubleshooting.....	10
Cleaning	10
Maintenance.....	10
Compliance	10
Disposal.....	11
Contact Details.....	12

Safety Precautions

This document contains important safety information relating to your Ohme Home Pro charger. Please retain this document for future reference.

Please read the document fully before using the Ohme Home Pro. Not following the safety instructions can result in electric shock, fire, serious injury or death.



The charger should be inspected periodically to check for damage to the cabling and the enclosure. Do not use if the product is defective or appears damaged. Contact the Ohme Helpdesk for advice



Do not attempt to open, repair, tamper or modify the Ohme Charger in any way. There are no user-serviceable parts



We strongly recommend that a competent person (e.g. qualified electrician) installs and/or inspects the installation to check for safety and supply adequacy before use



The overall installation should be in accordance with the IET Wiring Regulations and the IET Code of Practice for Electric Vehicle Charging Equipment:

(Australia & New Zealand) - AS/NZS 3000:2018



Handle the Ohme Home Pro with care. Do not expose any part of the unit or cable to severe forces, impact or sharp objects



The Ohme Home Pro is only intended for vehicles that do not require ventilation during charging (NB all mainstream electric vehicles do not require ventilation)



You may clean the Ohme Home Pro with a soft damp cloth. Do not use solvents or abrasives

Welcome to Ohme

This handy guide contains everything you need to know to set up your new charger and get started on the Ohme app. It also covers some important safety information. If you need a bit more information there are plenty of useful resources available on our website and if you can't find what you're looking for, our Customer Care Team will be happy to help.

Download the app

Downloading the Ohme app is an important part of setting up your charger. Go to the App Store/Playstore on your smart phone or tablet, and search for 'Ohme'.



Your charger information

Use the section below to make a note of your charger's serial number, this is important if you ever need to contact the Ohme Helpdesk. If you've had a Wall Charger installed take a moment to write down the installer's name, contact number and installation date.

Serial Number	
Installer	
Name	
Contact Number	
Installation Date	

Product Specification

Voltage	240 V AC
Frequency	50 Hz
Max Current, Power Output	32 A, 7.4 kW
Operating Temperature	-25 °C to 45 °C
Storage Temperature	-40 °C to 85 °C
Cable length (output to vehicle)	5 metres or 8 metres
Cable length (input, supply)	1 metre
Residual current function	Type A 30 mA DC 6 mA
Overcurrent protection	Not fitted, overcurrent protection to be fitted separately as part of installation
Ingress protection	IP55 (suitable for use outdoors in all weather)
Data Communication	2G / 3G / 4G
Shipping weight	5.3 kg (5 metre), 6.5kg (8 metre)
Colour	Black

Product Description

The Ohme Home Pro is an Electric Vehicle (EV) charging device, with:

- Input cable for connection to a power supply
- Charge controller, including integral RCD
- Tethered Type 2 charging cable
- Wall mounting accessories and cable holder

The charger is to be used with a single-phase electricity supply. The product conforms to the latest safety standards including:

- RCD functions to disconnect the power supply if AC or DC current leakage occurs

All Ohme Home Pro units are tethered, which means the cable cannot be removed.

Vehicle Integrations – An Ohme Labs feature

Some car manufacturers provide an API (Application Programming Interface) which allows access to information about your car via your manufacturer's smartphone app. Providing your login details in the Ohme app allows Ohme to see your car's current state of charge, which is then used to work out how much charge you need.

This is an Ohme Labs feature and is currently available for a limited number of manufacturers. We're always working to offer the latest in technology to our customers. As a part of Ohme Labs, we're continuously improving this feature and, from time to time, it may not work as intended.

Please note, certain functionality may also be limited based on manufacturer-specific API restrictions or limitations. If you have any issues, or you're worried something just isn't quite right, our Customer Care Team are happy to help.

Security

The secure features of Ohme products are not configurable, they are applied at the factory and cannot be changed. Ohme maintains a Security Log for each device on the user's behalf. Please note that no personal data is stored on the device. Please contact the Helpdesk if you wish to unpair your device from the Ohme app on your smartphone.

If you have any problems or concerns around security or regarding the vulnerability to cyber-attack, please report this to the Helpdesk.

Installation

At a glance...

- The RCD inside the unit is Type A and 6mA DC
- The units use the customers Wi-Fi network
- Load balancing can be setup with the current sensor (CT) clamp
- Ohme units are sealed, in most cases you will need to provide a junction box to connect to the supply

Mounting the unit

The Ohme Home Pro is designed to be wall mounted to a flat surface. Fixings are included which are suitable for most wall surfaces (e.g. brick/render) but the installer should select their own fixings if these are not appropriate.

Attach the back plate to the wall using four fixings, then mount the unit, carefully guiding the three lugs into the rear of the unit. Use the supplied three M4 short machine screws to fix the unit to the back plate. The charger comes complete with a cable holder and charging gun holster to retain the cable and vehicle connector when not connected to the vehicle. Use a further four fixings to mount these to the wall.

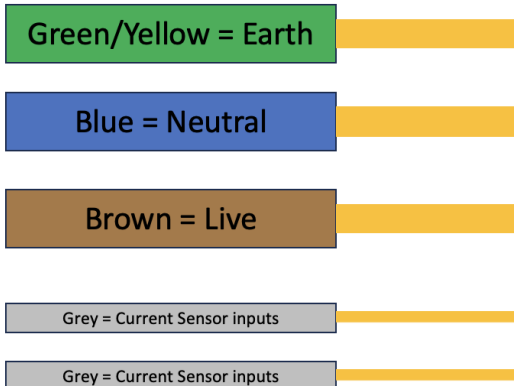
Electrical connection

The Ohme Home Pro is supplied with a one metre fixed input cable/flying lead requiring termination on site to a suitable junction box, isolation switch or mini-CU (not supplied). The flying lead conductors are 6mm² copper, the overall diameter is 15.2mm, suitable for a No. 6 cable cleat.

The overall installation must be compliant with the IET Wiring Regulations and the IET Code of Practice for Electric Vehicle Charging Equipment. Installation should be carried out by a competent electrician with appropriate knowledge of EV charge point installations.

Wiring

The Ohme Home Pro is a single-phase device with five input connections:



To connect, typically an installer will either:

- Install a junction box at ankle height
- Feed the input cable through a wall and terminate on the other side

The junction box needs to be rated to at least 32A, have sufficient IP rating for the location and have space for a three-way terminal block (no load balancing) or five way terminal block (with load balancing).

The installer should select a suitable, high quality, termination method. Where a terminal block is used that has a screw directly pushing against the conductor, it is essential that the screw clamps onto bootlace ferrules, not directly onto the copper.

The flying lead is supplied with bootlace ferrules, however, where it is necessary to shorten the lead, new ferrules should be crimped onto the cable ends to prevent damage to the cable by the screw. This ensures a solid, low impedance connection that will minimise heat build-up.

Note that the supplied lever connectors are for the load balancing clamp and must not be used for the main supply connections as they are not appropriately rated.

Installer Mode

On first powering the unit, the Ohme Home Pro will be in installer mode. In this mode:

- The RCD is automatically reset after 2 seconds to speed up the RCD tests
- The rating of the unit can be adjusted
- Load balancing can be activated and the threshold value selected

Installer mode must be disabled before leaving site!

RCD

The Ohme Home Pro has a Type A 30mA and DC 6mA RCD built in. To avoid blinding of RCDs, we recommend that any upstream RCD is at least Type A. Type AC RCDs may saturate and fail to operate in the presence of smooth DC currents below 6mA.

In the event of an RCD activation in the Ohme charger, the unit is reset by power cycling (switching the supply off, wait 5 seconds, and switch on) or by unplugging and re-plugging the vehicle.

The RCD in the unit is certified as a RCD-DD, conforming to IEC62955.

Overcurrent Protection

No overcurrent protection is provided in the Ohme Home Pro, separate provision is to be provided as part of the installation. We recommend the installation of an MCB with a tripping characteristics type C.

Note

The breaker value depends on the diameter and the length of the cable, the EVSE rating, and the environmental parameters (for electrician to decide)

Load Balancing

The Ohme Home Pro has a dynamic load balancing feature. A current sensor (CT) clamp is provided to measure the electrical demand of the property, or sub-board. The unit will limit the maximum current available to the vehicle to keep the household demand below the set threshold/fuse value.

The unit is designed to comply with the relevant parts of Engineering Recommendation (ER) G100, which is a requirement of some DNOs to permit installation in circumstances where the property has insufficient capacity.

Where load balancing is activated, if the CT clamp is removed, or is faulty, the unit will revert to 16A. It is therefore sensible to ensure the spare capacity, after taking account of other loads and diversity, is at least 16A.

Note: where the dynamic available capacity for the charger drops to below 6A, the Ohme Home Pro will pause the charging for at least five minutes to prevent rapid switching of the vehicle where the current is hovering above and below the threshold.

Lever connectors and a small junction box are provided to make the connections.

Activating Load Balancing

Connect up the current sensor inputs to the CT clamp, you will likely need to extend the cable. The CT clamp and wiring is not polarity sensitive – you can install the CT clamp in either direction. The wiring can be extended using additional cable if necessary.

Ohme recommends EV Ultra Cable 3 Core + Data as a convenient single cable solution. This cable contains two data cores and can be used to extend the clamp cable up to 60 metres.

Cat5e Ethernet cables or alarm wire (e.g. Belden) can be used to extend the CT clamp.

In Installation Mode, select “Enable” to activate load balancing and use the “+” and “-” buttons to set the unit maximum current value.

On the charging screen (when set to state C), the display shows the clamp reading. It is essential that the installer verifies the correct operation of the clamp at the time of installation.

Network/Internet Connection

The Ohme Home Pro uses the customers Wi-Fi data connection. Set-up can be completed via the Ohme App.

Where Wi-Fi is known to be unreliable, the customer should be made aware that the smart features of the Ohme unit will also be unreliable. Ohme cannot be held responsible for the installation location and issues with the customers' network.

Where the unit cannot establish data transfer at the time of plug in, the unit will behave like a dumb charger and will not schedule the charging session.

Troubleshooting

If there are any queries or issues regarding using the Ohme Charger, please contact the Ohme Helpdesk via email: help.au@ohme-ev.com.

Cleaning

The Ohme Home Pro can be cleaned with a soft damp cloth. Avoid the use of cleaning agents and solvents.

Maintenance

The Ohme Home Pro is maintenance free. If the charger is defective or damaged, please discontinue use and contact the Ohme Helpdesk for advice.

Compliance

The product complies with the relevant elements of:

- IEC 61851-1:2017 Electric vehicle conductive charging system. General requirements
- :2018 Residual direct current detecting device (RDC-DD) to be used for mode 3 charging of electric vehicles
- IEC 61000-6-3:2021 Electromagnetic compatibility (EMC). Generic standards. Emission standard for equipment in residential environments
- IEC 61000-6-1:2019 Electromagnetic compatibility (EMC). Generic standards. Immunity standard for residential, commercial and light-industrial environments
- IEC 62196-1:2022 Plugs, socket-outlets, vehicle connectors and vehicle inlets

Disposal



Information on Disposal for Users of Waste Electrical & Electronic Equipment (private households)

This symbol on the product and accompanying documents means that used electrical and electronic products should not be mixed with general household waste. For proper treatment, recovery and recycling, please take this product to designated collection points where it will be accepted free of charge.

Alternatively, in some countries you may be able to return your products to your local retailer upon purchase of an equivalent new product.

Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling.

Please contact your local authority for further details of your nearest designated collection point. Penalties may be applicable for incorrect disposal of this waste, in accordance with your national legislation.

For business users in the European Union:

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

Information on Disposal in other Countries outside the European Union:

This symbol is only valid in the European Union. If you wish to discard this product please contact your local authorities or dealer and ask for the correct method of disposal.

Further information on disposal and general recycling can be found at www.complydirect.com/the-recycling-room.

Contact Details

This warranty is provided by:

Ohme Operations Australia Pty Limited ABN 662743711

A: Suite A, 35 Alexandra St, Hunters Hill NSW 2110 Australia

T: +61 2 8311 0097

E: help.au@ohme-ev.com

(Referred to in this warranty as “Ohme”, “we”, “us” or “our”.)

Manufacturer’s Warranty

The terms of this warranty are set out in clause 13.3 of our Website Terms and Conditions (see below).

The key terms of the warranty for the Ohme Home Pro are as follows:

- The device is protected by a manufacturer’s warranty for 36 months from the date of installation (**warranty period**).
- The minimum operational life of the Ohme Home Pro exceeds 36 months.
- The warranty covers on-site assistance, repairs and replacements, at no cost to you (except for your own expenses in claiming the warranty).

The warranty covers any defects in materials or workmanship under normal use. During the warranty period, Ohme will refund, repair or replace, at its discretion, at no charge, products or parts of the product which prove defective because of improper materials or workmanship under normal use and maintenance. This will include labour costs to repair or replace the unit at the installation site.

Ohme will either repair the product or replace the product. Goods presented for repair may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the goods.

A replacement product will be subject to the remaining warranty period of the original product or for 180 days from the date of the replacement or repair, whichever is longer.

The warranty does not cover any issues that are caused by conditions, malfunctions, or damage not resulting from defects in the charging unit. The warranty does not cover damage or malfunction directly caused by abuse, misuse, negligence, accident, improper use, including but not limited to:

- change of mind purchases
- defects that are brought to your attention before your purchase (such as goods labelled as seconds with their faults clearly marked)
- Failure to follow the instructions and warnings provided in the product literature.
- The environment or “Acts of God” such as fire, earthquake, flood or other event beyond Ohme’s control
- General appearance of the product such as discolouration or damage to paint, labels, scratches, dents and cracks
- Any repair, alteration, or modification to the product other than those authorised by Ohme.

The benefits to you given by this warranty are in addition to other rights and remedies you may have under applicable consumer protection law in relation to the goods to which this warranty relates.

Ohme Home Pro’s that are purchased in Australia come with guarantees that cannot be excluded under the Australian Consumer Law (**Consumer Guarantees**). Australian Consumer Law also specifies the circumstances in which you will not be entitled to a repair, replacement or refund for problems with your purchase. The Australian Consumer Law applies to your purchase of the Ohme ePod.

If the product has a minor problem, Ohme will repair that problem at no cost to you and within a reasonable time. If the product has a major problem, you are entitled to a replacement or refund of the Ohme Home Pro. Ohme will review the product and advise you whether the product has a minor problem or a major problem. See clause 13.3 of the Website Terms and Conditions (see below) for further details.

Claims process

To initiate a service from Ohme under this warranty during the warranty period, please contact Ohme at help.au@ohme-ev.com. Please have the serial number of the charging unit to hand and it will help if you have the details of your installer. You must bear your own expenses in claiming the warranty.

Further details about the claims process can be found in clause 12 of the Website Terms and Conditions (see below).

Limitation of Liability

Subject to applicable consumer protection law and to the maximum extent permitted by law, no liability will be accepted for any loss, costs or damage as a consequence of using or misusing the product except, and only to the extent, where this is caused by our negligence.

Terms and Conditions

For full Terms and Conditions of the product please visit our Website Terms and Conditions at www.ohme-ev.com/au/terms-and-conditions.



Ohme
The intelligent EV charger

