

7.4kW Universal Data Sheet

BR-AC7000-01



Product Specification

- Fully Part S Compliant
- Multi-Home Intelligent Load Management System (MHI®)
- Power Rating - 7.4kW
- Variable Charging Speeds - 6A to 32A
- No earth rods with built in PME / TN-C-S System (O-PEN)
- Solar Compatible
- Smart App Controlled
- Off-Peak Charging with Easy Scheduler
- Built-in LED Charging Status Indicator
- Universal Charging Socket
- Wi-Fi / 4G / Ethernet Connectivity
- IP54 and IK08 rated
- Corrosion and Fire resistant
- 2 Screw Self-Leveling System
- Wall or Post mounting Options
- Secure Tamper Boundary Included
- OZEV Grant Fundable

Installation

Brim charging points are designed for installation in either an open or covered setting. The point uses standard screw fittings and electrical connections. To maintain the product warranty, installation must follow Brim's guidance and all relevant legislation. Brim charging points must either be installed by our service installation team or by a certified electrician, followed by registration of the product.

For optimal protection, installation should include double or four-pole RCD protection to enhance safety. Installers may also consider using an energy clamp in single-phase installations to prevent overload on the home's main fuse due to the additional charging load. Further installation guides and user manuals can be downloaded at <https://www.fulltothebrim.com>.

Compatibility

Brim charging points are compatible with the Mode 3 charging standard and have been tested with the vehicles listed in the Vehicle Compatibility List.

Only certified, European-standard cables should be used with Brim chargers. The use of adaptors, extension leads, or "smart" cables that alter the functionality of the charger is not recommended, as it may compromise safety and affect performance.

Connectors and Security

Brim chargers are fitted with a Type 2 Universal Socket. As standard, all Brim chargers are shipped with OCPP 1.6 security level 2.

Status Light and RFID

The status of the charge point is shown by coloured status lights. Either Green, Yellow, Red. Each charging unit is provided with two registered RFID card for secure start/stop charging.

Building Reg Compliant

Brim chargers are fully compliant with 2023 building regulations, ensuring adherence to the latest industry standards and requirements.

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Electrical Specification

Charge Protocol	Mode 3 (IEC 61851-1)
Charging Current	Variable – 6A – 32A
Protection	- Over current protection – A Type A RCBO installed at source is recommended - Residual current protection – AC 30mA Type A & DC 6mA - Overload, Tamper, Short Circuit, Current Leakage Surge and Over Temperature - PEN fault detection – No earth electrode/rod required
Input Supply	230V AC ($\pm 10\%$) 50/60Hz (1-Phase) 400V AC ($\pm 10\%$) 50/60Hz (3-Phase)
Cable Terminal	3 x 10mm² terminals (1-Phase) 5 x 10mm² terminals (3-Phase)

Physical Specification

Dimensions	150mm x 360mm x 120mm (W x H x D)
Materials	Plastic - PC940
Weight	4.5kg
Operating Temperature	-30¼ ^{°C} to +50¼ ^{°C}
Ingress Protection	IP54
Impact Protection	IK08
Unit Colour	Grey and Black

Certifications & Compliance

EV Charging Compliance	EN IEC 61851-1:2019, BS EN IEC 61851-1:2019
Smart Regulations	SI 2021:1467 inc Schedule 1.
EMC Compliance	2014/30/EU, SI 2016:1091, ETSI EN 301 489-1 V2.2.3 (2019-11), ETSI EN 301 489-3 V2.1.1 (2019-03), ETSI EN 301 489-17 V3.2.4 (2020-09), IEC 61851-21-1:2019, EN IEC 61851-21-2:2021, EN IEC 62311:2020
Radio Emissions	2014/53/EU, SI 2021:1467, ETSI EN 300 328 V2.2.2, ETSI EN 300 330 V2.1.1, ETSI EN 301 489-1 V2.2.3, ETSI EN 301 489-3 V2.1.1, ETSI EN 301 489-17 V3.2.4, EN IEC 61851-21-2:2021, EN IEC 61851-1:2019, EN IEC 62311:2020, BS EN IEC 61851-21-2:2021, BS EN IEC 62311:2020, EN IEC 61851-1:2019, EN IEC 62311:2020, BS EN IEC 61851-21-2:2021, BS EN IEC 62311:2020
Safety Compliance	N 60950-1:2006+A2:2013, EN 60950-22:2017, IEC 62955:2018.
Low Voltage Directive (LVD)	2014/35/EU
Certification Markings	CE, UKCA & WEEE

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Warranty - 7 Years

Brim Chargers come with an 84 month warranty from the date of installation. Any hardware failure should be reported to us, by e-mail to plugmein@fulltothebrim.com, or by calling our support team on 020 7097 5911, quoting the serial number, location of the product, and giving a brief description of the failure.

Our Brim support team will then investigate, and attempt to remotely resolve any issue. They may ask you to provide additional information to assist in this. If the issue cannot be resolved remotely, and the product is in warranty, we will make arrangements for one of our team to visit the location and, if the issue is a result of any shortcoming in design or manufacture it will be made good free of charge or, at our discretion, exchanged for a replacement product. If we attend the site, and the fault is not a result of a shortcoming in design or manufacture of our product, we will make reasonable attempts to suggest what the issue is, and propose a resolution which may have a fee associated with it. A call out fee will be applicable where our product is not at fault. Smart charging hardware is designed to operate in co-ordination with grid demands. In periods of peak local, regional and national electrical demand charging may be interrupted or rate limited for brief periods to facilitate the need to manage the power grid. This is typically done to maintain stability of the grid, and ensure quality of supply. Where the end user has signed up to Brim's data services, information about each specific event is provided. The interruptions and limits are managed such that there should be no significant effect on vehicle charging overall.

Environmental Impact and Sustainability

Brim Chargers are WEEE-compliant and manufactured using recyclable materials, supporting sustainable practices in line with industry standards.

Materials: The housing is made from durable and recyclable PC940 plastic.

Please refer to local recycling guidelines or contact us for recycling options for out-of-service products.

Limitation of liability

In no event will Brim accept any liability for any loss, costs or damage consequential of the use and/or misuse of our hardware products except and only to the extent that this is caused by our negligence.