Solar Electric Vehicle Charger

Clearline EV

Perfect for domestic applications

Get Ready for Part S

- **Drive on Sunshine.** Charge your car with power from your solar panels.
- **Compact and Powerful.** 7kW in the footprint of an A5 sheet.
- **Simple Installation.** No need for Earth Rods wtih built-in open PEN conductor protection.
- **Peace of Mind** - 3 Year Warranty.

Viridian Solar, Atlas Building, 68 Stirling Way,
Papworth, Cambridge CB23 3GY

01480 839 865
www.viridiansolar.com

Version 1.2

viridian solar

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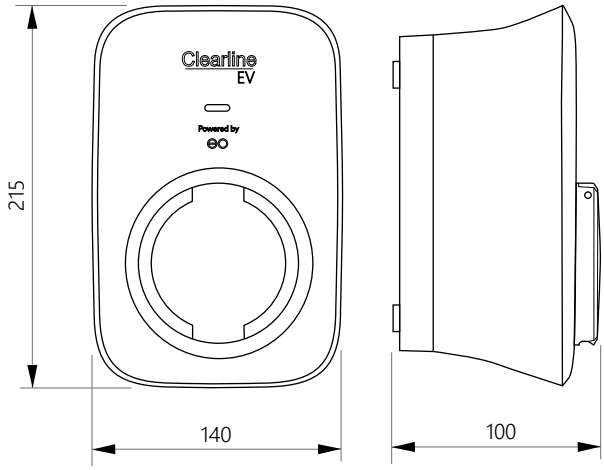
Clearline EV



EO App. Control Clearline EV from the palm of your hand. Charge scheduling, usage monitoring and solar power matching.

Download on the App Store | GET IT ON Google Play

Specification

MECHANICAL	
Dimensions (H x W x D)	215 x 140 x 100mm
Weight	<2kg
Mounting Location	Indoor or outdoor wall mounted. Post mounted with optional backplate
Ambient Temperature	-30˚C to +55˚C
Internal Electronics Temperature	-25˚C to +70˚C
Operating Humidity	5% to 95% relative humidity
Enclosure	PC UV stabilized (UL94 V-0 fire rated)
Protection	IP54
Impact Rating	IK08
Colour	Black (RAL9005)
ELECTRICAL	
Rated Power	Up to 7.2kW
Charging Current	6 to 32A (variable)
Rated Current	Up to 32A (max)
Nominal Supply	230VAC 50Hz
Supply Connections	TN: L1, N, PE 0.2 - 16mm IT: L1, N
Over Current Connection	40A supply
Earth Leakage Protection	A dedicated 30mA Type A RCD must be used on the supply circuit. Integral 6mA DC leakage detection - no Type B RCD required. Integral PEN protection - no earth rod or RCBO/consumer unit required.
Standby Power	<3W
Status Indication	3 colour LED (green, blue, red)
Charging Mode	Mode 3 (IEC 61851-1 compliant comms protocol)
Solar Charging	Included. Charging rate tracks surplus solar generation. Current clamp included as standard.
Active Load Management	Included. Charging rate adjusts to keep the total building current draw below a set limit.
Intelligence	OCPP 1.6J compliant ISO15118 ready for vehicle-to-grid (V2G)[1]
Socket	IEC 62196 Type 2, IP54 hinged lid, locking pin
Supply Cable Entry	Ø25mm modifiable cable entry (Ø10mm - Ø22mm PVC stepped grommet included)
COMMUNICATIONS	
U.Fl external antennae ports for Wi-Fi	
COMPLIANCE	
OZEV EVHS & WCS grants approved UK Smart Charging Regulations compliant BSI Kitemark (pending) CE + UKCA Marked, EMC Directive 2014/30/EU, Radio Equipment Directive, IEC 61851-1, IEC 61851-22, IEC 62196-2 EN 301-489 RFID - ISO/IEC 14443 (MIFARE). ETSI EN 303 645 cybersecurity	

Designed to permit installations compliant with IET Wiring Regulations BS 7671:2018+A1:2020 and the Electricity Safety, Quality, and Continuity Regulations 2002 and BS 8300:2009+A1:2010. In no event will Viridian Solar accept any liability for any loss, costs or damage consequential on the use and/or misuse of our hardware or software products except and only to the extent that this is caused by our negligence.

[1] Feature available with version 2, coming soon.

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