wondrwall



Dynamic EV Charger
7-22kW

TECHNICAL SPECIFICATION



WDR-CC-722S-UK

Wondrwall Dynamic EV Charger 7-22kW	
Dimensions (W x D x H)	210mm x 90mm x 235mm
Net Weight	<4.5Kg
Structure	
Enclosure protection requirements (IP protection class)	IP65
Anti-corrosion and aging requirements	The housing shows no reduction in strength, no corrosion, and no rust after salt spray testing. The test is conducted in accordance with IEC 60664-3.
Mechanical strength requirements	IK08(Challenge IK10)
Materials	Material UV resistant, flame retardant PC material, impact resistance, fire rating UL 94 V0 or above
Installation Requirements	Wall-mounted (optional column)
Alignment	Lower inlet (standard, about 50cm of three-phase input line outside the pile)
Connection Method	Connection type B
Durability	The pile base shall withstand 10,000 insertion and removal cycles without damage. The insertion and removal force must be less than 100 N.
Usage	
Charging Method	Swipe card charging, APP charging, Bluetooth key (Bluetooth sensorless charging), Plug and Play charging
Charging Time Configuration	Appointment charging (off-grid normal execution of appointment after successful appointment) / Valley charging (48 time slots configuration)
Power Adjustment	Automatic adjustment according to instruction / Automatic adjustment according to temperature
Data Reporting	Failure: Any failure of the device body or system parameters will be reported to the backend server in real time via the external network. Log: Each control operation is recorded and stored on the Flash (TF card). Logs are uploaded to the backend server when triggered by the system. Status: The current operating status is uploaded to the backend server at regular intervals of 5 seconds (adjustable) during normal operation.
Local Storage	Fault alarms are stored locally on the Flash card. Each fault event is recorded, with support for storing at least 100 entries.
Independent Clock	Equipped with an independent clock module to ensure continuous timekeeping. The clock maintains accurate time for up to 5 days after the pile loses power.
Remote Upgrade	Supports over-the-air (OTA) updates with automatic recovery in case of upgrade failure. Device functionality remains unaffected during the upgrade, and all configurations are retained after the update.
App	
App	Wondrwall app

Images are indicative only.

TECHNICAL SPECIFICATION

Electrical			
Rated Powers	7kW	11kW	22kW
Input Voltages	AC230V±10%	400V±10%	
Input Frequencies		47~63Hz	
Output Voltages	AC230V±10%	400V±10%	
Output Current	1A-32A	1A-16A	1A-32A
Standby Power Consumption		<5W	
Energy Metering	On-board metering Accuracy Class A or better (within 2%)		
Surge	On-board Surge		
Leakage Switch	Built-in RCD EV type leakage protection circuit		
Display	LED RGB indicator		
Bluetooth + WiFi	Dual-mode Bluetooth 5.2+ (Remote and Optional Module Interface Compatible)/WIFI IEE802.11b/g/n 2.4GHz		
Ethernet	Auto-negotiation support (10/100-Based full duplex/half duplex)		
4G	Optional		
Swipe Module	Two factory-paired M1 (Mifare) cards are provided. Charging is enabled via the Mifare card, with identification based on the card's UUID. The M1 card must be bound to either the mobile app or a specific charging pile (stake). Binding is supported both online (via network) and offline (via local card swipe).		
Reliability	MTBF>100000h		
Operating Temperature	Suitable for -30°C to +55°C		
Storage Ambient Temperature	Suitable for -40°C to +85°C		
Noise Level	≤55dB (ambient noise ≤40DB under the rated power of charging pile, at a horizontal distance of 1m from the charging pile)		
Altitude	≤2000m (customised for more than 2000m)		
Humidity Requirements	5%-95%, no condensation (IEC 60068-2-3:2007 humidity and heat)		
Shock & Vibration Resistance	The entire unit complies with transport vibration and mechanical shock standards, with no impact on electrical performance.		

Images are indicative only.

TECHNICAL SPECIFICATION

Certificate	
Reliability	Low temperature: IEC 60068-2-1, High temperature: IEC 60068-2-2, Alternating humidity and heat IEC 60068-2-30, Temperature rise IEC TS 61439-7, Protection class IEC 60529
Safety Certification	IEC 61851-1, IEC 60664-1-2020 (Insulation Resistance, Dielectric Strength, Electrical Clearance and Creepage Distance) IEC 61851-1: 2017, EN 61851-1: 2019 (AFSL add UL 2684,UL 2231, IEC 60950)
EMC Certification	Class B (EMI: conducted, radiated, EMS: electrostatic, surge, EFT, CS, RS, etc.) IEC 61851-21-2: 2018, EN 61000-6-1/-2/-3/-4
RCD	IEC 62955: 2018
RF Certification	EN 301489, EN 301 908-1/-13, EN300328, EN300330-1/-2
Environmental Certification	ROSH
Other Certification Requirements	CE/UKCA
Warranty	
Warranty	5 years
Basic Information	
Reference Standard	AC EVSE CE-EMC+UKCA-VOC: EN 300 328; EN 300 330; EN 301 489-1; EN 301 489-3; EN 301 489-17; EN 62311; EN 61851-21-2 AC EVSE CE-Safety EN IEC 61851-1:2019+A1+2023 IEC 62955:2018 BS EN IEC 61851-1:2019+A1:2023 BS7671:2022