

Ultracharge 500S

Data sheet

AC Input

Input Voltage	400V AC 3P+N+E
Nominal Input Current	74A (on each phase)
Current THD	IEC 61000-3-12
Rated Input Power	55kW
Input Frequency	50Hz
Power Factor	>0.98
Efficiency	>95%

AC Output

Output Voltage	400V AC 3P+N+E
Rated Output Current	63A
Rated Output Power	43kW

DC Output

Output Voltage	200 – 800V DC
Rated Output Current (max)	125A
Rated Output Power	50kW

Electrical Safety

Residual Current, Earth Fault	RCD Type B
Over Current	MCB
Over Voltage	Over Voltage Detection
Short Circuit	Short Circuit Detection and MCB
Emergency Stop	Emergency Stop Button

Connector Type

Combined Charging System (CCS)	CCS Combo 2
CHAdeMO	CHAdeMO JEVS G105
AC	Type 2 tethered cable IEC 62196

Enclosure

Materials	Stainless steel and composite plastics
Ingress Protection	IP54
Impact Resistance	IK10

Network Connection

Wireless	GPRS/GSM M2M
Ethernet	10/100BaseTX
Communication Protocol	OCPP v1.5, OCPP v2.0 on release

Environmental

Operating Temperature	-30 to +50°C
Max Humidity	95% RH non condensing
Operating Noise	<45 dBA
Thermal Management	Thermostatically controlled fans

General

RFID System	ISO 14443A 13.56MHz
User Interface	12.1" widescreen sunlight optimised full colour LCD with PCap touch-screen under toughened vandal resistant glass
LED Indication	Blue – Available, Green – In Use
Contactless Credit Card Payments	Optional
Number Plate Recognition System	Optional
Dimensions	1500h x 800w x 640d mm (max)
Weight	195kg

Compliance

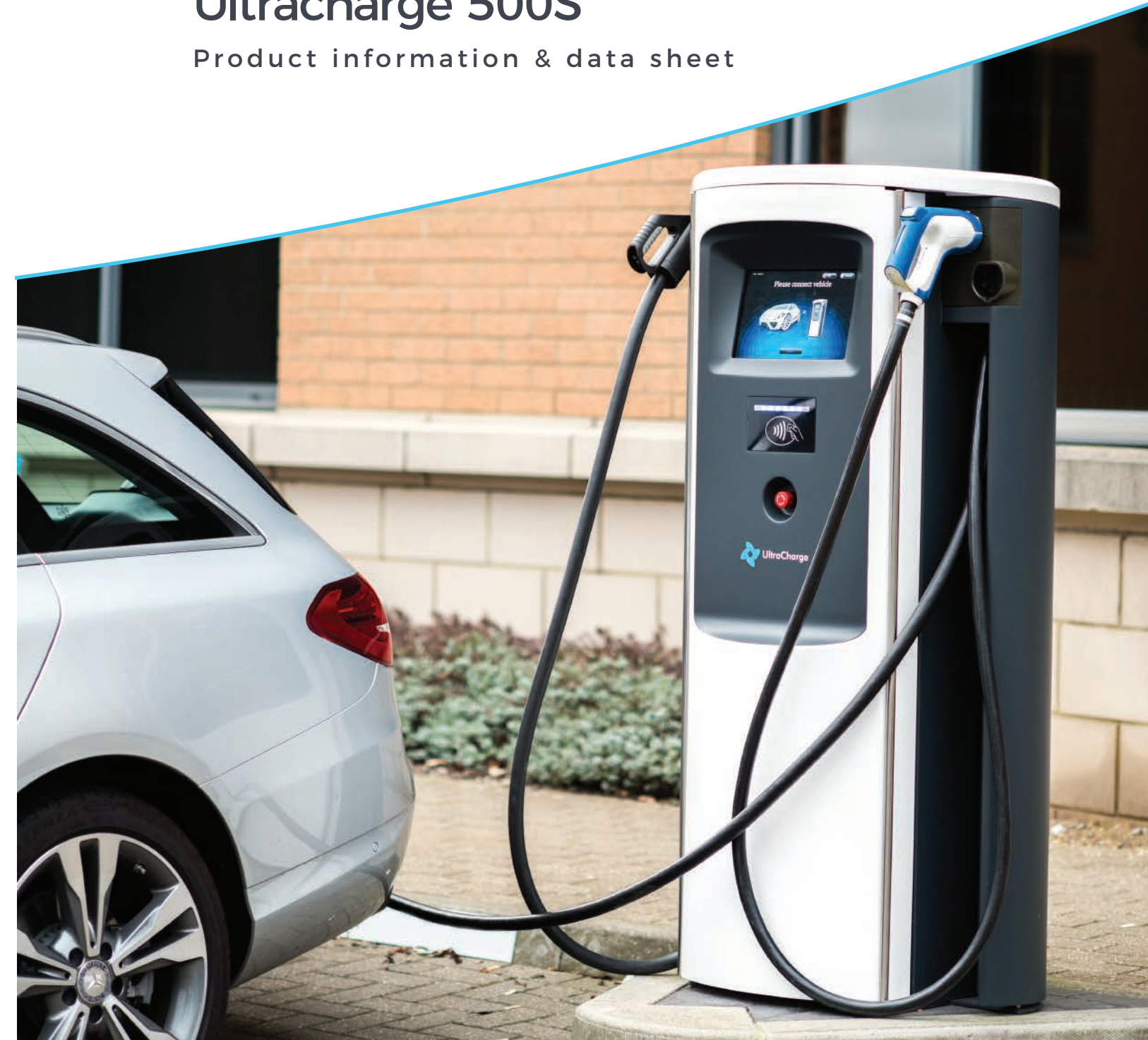
CCS	IEC 61851-1, IEC 61851-23 annex C, ISO 15118, DIN 70121
CHAdeMO	CHAdeMO V1.0, IEC 61851-1, IEC 61851-23 annex A
AC 43kW	IEC 61851-1, IEC 61851-22, IEC 61851-11 annex A, IEC 62196



rapid charging the future

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Product information & data sheet



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Welcome to the Future of Rapid Charging

Compact, stylish, easy to install and a pleasure to use; our new Ultracharge revolutionises rapid charging.

Perfect when speed is paramount, rapidly charging EVs to extend their range and continue their journey. Designed and built in the UK, packed with innovative features:

- Smaller, lighter and quieter than 'first generation' rapid chargers.
- Easier to install; usually requiring no planning permission.
- 'Triple-standard'; charges most vehicles to 80% in only 30 minutes.
- Fully integrated tethered cables with 50kW CHAdeMO, 50kW CCS and 43kW AC connections.
- Intuitive, state-of-the-art touchscreen user interface.
- Runs from a 3 phase 400V / 80A supply per phase.
- Connects to all OCPP compliant back-office systems.
- Powder coated stainless steel shell and chassis with RIM polymer panels, for outstanding durability.
- 3 years' electronics warranty and 10 years' chassis and housing warranty as standard.

The Chargemaster difference:

End-to-end support - we don't just send you a charging unit. We work with you at every stage to ensure you find the best possible charging solution for your needs.

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