

# 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 – 500V 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 touchscreen 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 61851-2 2, IEC 61851-11 annex A, IEC 62196



# Ultracharge

rapid charging the future

## Ultracharge 500S

Product information & data sheet



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# Welcome to the Future of Rapid Charging

**Compact and easy to install; our Ultracharge units offer convenient and innovative rapid charging.**

Perfect for when you're on the go or when speed is paramount, our new generation of rapid chargers are designed and built in the UK, and offer advanced and state-of-the-art 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, modern 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

## Why choose BP Chargemaster?

We work with four guiding principles:

### Innovation

We believe in the value of innovation. We design and create quality products that answer the needs of the future. We strive to being progressive, groundbreaking and making positive changes through better technology and new ideas.

### Pride

Our status as UK leaders is a source of pride. We are building a better world, and we are achieving great things through British design and manufacturing, world-class service, a diligent approach to our work and integrity as a business.

### Integrity

We respect our customers and staff and value their relationships with us, so we maintain a reliable and stable company that is responsible at all times. We aim to fulfil their needs today and tomorrow through convenient, best-value technology and service.

### Openness

As a company, we aim to be approachable and accessible. Our ideas are our greatest resource and power the next generation of our products. Our network and servicing are always open to customers, and we believe in being just as frank and open about our business aims as well.



## The BP 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.

**Complete maintenance and service package options** – you have the freedom to choose what's right for you, ensuring you always receive the very highest levels of service and support.

To find out more about the future of rapid charging:

**Call us: +44 (0)1582 399 413**

**Email us: [sales@bpchargemaster.com](mailto:sales@bpchargemaster.com)**

**Visit: [www.bpchargemaster.com](http://www.bpchargemaster.com)**