

# Onecharge

## Electric Vehicle Charging Unit

Intelligent Single Outlet



Designed for destination charging, this stylish and unobtrusive charging unit is our quickest and most cost effective charger to install. Perfect for providing longer-stay or overnight charging.

- Fitted with one 'Type 2' socket for charging one vehicle at a time.
- Choose from 3.6kW & 7kW charging capacity.
- Intelligent units offer users charging sessions controlled via RFID card or mobile app access. They communicate to our back-office server via GPRS, enabling access to data usage.
- Smartcharge feature offers dynamic load-limit control via charge point management system, allowing integration with energy provider back offices.
- Integrated DC fault current detection.
- Free access to chargevision, our advanced online usage monitoring and reporting system.
- Exclusive access via personalised RFID card for the unit.
- Reliability you can trust, thanks to precision engineering, rigorous testing and quality controls.

### The BP Chargemaster difference

We're the UK's biggest name in electric vehicle charging, trusted by thousands of owners, businesses and councils, with over 50,000 customers across the UK and Europe.

We make the future of electric motoring possible with a range of products for business, commercial and public use. All of our charging points are developed and manufactured in the UK and carefully designed to match your needs.

### Comprehensive three year warranty

Included as standard on all our products to give you the confidence and peace of mind you need.

### Complete maintenance and service package options

You have the freedom to choose what's right for you, ensuring you receive the very highest levels of service and support.

## Onecharge Wall Mounted Charging Range (Intelligent Single Outlet)

Charging Unit Model	O3 3.6kW Single Phase	O7 7kW Single Phase
AC Charging Output	3.6kW 16A @230v	7.36kW 30A @230v
Input Voltage	230v AC	
Input Current	16A	30A
Outlet EV Sockets	Type 2 (EN62196) socket	
Safety Protection (RCD)	30A Type B RCD and integrated DC fault current (compliant with BS 7671:2018)	
Environmental Protection	IP54 (EN60529:1992 + A2:2013)	
RFID Access Tag Standard	ISO / IEC 14443A	
Control	'Mode 3' SELV DC & PWM control signalling, conforming to ISO/IEC 61851-1 Annex B, validated by Mercedes, BMW, Nissan, Renault, Mitsubishi, Toyota, Kia, PSA, Jaguar Land Rover, VW, Tesla, Smart, Ford, Volvo	
Wireless Communications	GPRS Cellular Data Network Radio Equipment Directive	
Network Communications Protocol	TCP/IP 2 way communication with secure central server	
Network Security	HTTPS, 128 bit encryption	
Min Operating Temperature Range	-20°C to +40°C (LCD Display remains fully operational at -20°C but may have a slower response below 0°C)	
Operating Humidity	To 95% RH Non-condensing	
EMC Compliance	EN 61000-6-3:2007, EN 61000-6-2:2005	
Safety Compliance	Low Voltage Directive (LVD)2014/35/EU, EN 60950-1:2006 + A11 + A1, EN 60950-22:2006	
EV Charging Compliance	EN 61851-1:2001, EN 61851-21:2002, EN 61851-22:2002, IEC 62196-1, BS 7671:2018 (IEE 18th Edition)	
ZE READY	ZE 1.2 ready, which must be specified at time of ordering	
Pay As You Go Service	See the additional service description document	
Warranty	Comprehensive three years' parts and labour warranty included as standard	
Dimensions (H x W x D)	214mm by 354mm by 120mm	
Colour	Grey	
Smartcharge Feature	Server-controlled variable load limit	



All BP Chargemaster products are designed and manufactured in the UK.

Call: +44 (0)1582 399 413  
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 Visit: [www.bpchargemaster.com](http://www.bpchargemaster.com)

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 500 Capability Green, Luton, LU1 3LS, United Kingdom

## BP Chargemaster Onecharge Specifications

**Tethered Type 1 J1772, Tethered Type 2 or Type 2 socket available in 16A and 30A versions**

**Size of Housing:**

Max width - 354mm ; Max height - 204mm  
Depth - 120mm

**IP Rating:** P54 EN 60529

**Tethered Charging Lead:**

Length – 4.7 meters  
Charging Gun - Type 1: SAE J1772 or Type 2

**Socket Version:** Type 2

**Charging Specification:**

EC 61851 "Mode 3"; Compliance to IEC 62196-2

**Charging Output:**

6A Unit - Max 16A @ 230V ; 30A Unit - Max 30A @ 230V

**Upstream Safety Protection:**

Overcurrent Protection:  
16A Unit - 20A Curve Cor D MCB  
30A Unit - 40A Curve Cor D MCB

**Residual Current Protection:**

30mA RCD Type A ; Regulatory Compliance to EN 61009  
6mA DC fault current detection; Regulatory compliance to BS 7671:2018

**User Access:**

Key orientated "on / off" switch. Unit is only live when connection is established between the EV and connector through 'mode 3'

**Operating Temperature Range:** -25°C to +40°C

**Operating Humidity:** To 95% RH non-condensing

**Unit Material:** Triloy Polycarbonate ABS composite

**Communications:**

GPRS connectivity option  
GPRS communications are linked with BP Chargemaster's software which enables data to be collated and accessed by users.  
Non-Communicating key operated options.  
Smartcharge feature: server-controlled variable load limit

BP Chargemaster  
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**Tethered Type 1 J1772**



**Tethered Type 2**



**Type 2 Socket**



## Wall mounted single 22kW charger **ONC22**

Wall mounted single type 2 socket three phase output providing up to 22kW charging rates. Suitable for all mode 3 enabled vehicles. These units are managed with a key to start and end the charging session. Ideal for home or business use where pay per use or carbon reports are not required.

- 3 Phase
- Key operated
- Charging Cable Locked to Socket while Charging
- Colour: White
- Charge up to 22kw



Outlet Sockets	1 x EV Socket, Type 2, (EN62196)
Input Voltage	400v 3-Phase
Input Current	32A per Phase
AC Charging Output	22kW 3 Phase
Safety Protection (RCD)	1 x 30mA Type B RCDs
Environmental Protection	IP54 (EN60529:1992 + A2:2013-08)
Control	'Mode 3' SELV DC & PWM control signaling, Conforming to ISO/IEC 61851-1 Annex B, validated by Nissan, Renault, Ford, BMW, PSA and Mitsubishi
Min Operating Temperature Range	- 20°C to + 40°C
Operating Humidity	To 95% RH Non-condensing
EMC Compliance	EN 61000-6-3:2007, EN 61000-6-2:2005
ESD Compliance	EN 60950
Safety Compliance	EN 61851-1:2001, EN 61851-21:2002, EN 61851-22:2002, IEC 62196-1, Low Voltage Directive (LVD) 2006/95/EC, EN 60950-1:2006 + A12, BS 7671 (IEE 17th Edition)
Warranty	See the BP Chargemaster standard warranty statement