

bp pulse public lite

Smart, seamless and sustainable public EV charging

Smart

- **AC Charging** – most convenient for locations where vehicles are parked for long periods of time. Charge times 0-100% typically 6-12hrs*
- **bp pulse App** and **RFID** authenticated access control
- **4G/LTE, WiFi, Ethernet** connectivity
- **MID** – charging the exact cost of usage
- **Display** – 4.3" Display allows for easy engagement
- **Over-The-Air (OTA) updateable** allows for the addition of new features as well as security updates.
- **E.V. and Z.E. Ready** - compatible with Renault EVs

* actual charge times vary depending on vehicle.

Seamless

- RFID card provides access to depot/workplace and public bp pulse charge points.

Sustainable

- Cost-effective and enables a net-zero carbon EV charging solution for public.
- Aids in the promotion of Corporate Social Responsibility (CSR) and the public's desire for increased supplier sustainability.





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Secure

- Protected – by advanced overload protection and electric current management software
- A complete service from design, manufacturing, installation to handover
- 24/7 customer support
- Expertly installed by professional, skilled electricians and engineers

Options available

- Single phase AC
7kW output
- Three phase AC
22kW output
- Wall mountable
- Single or dual pole mountable

Main features



Power Consumption

Energy Monitoring

Charging Duration

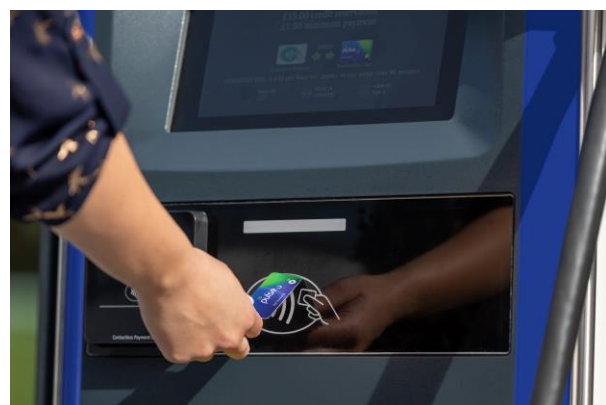
Type 2 socket outlet with flap

ChargeVision Portal



Free access to ChargeVision, our advanced online usage monitoring and reporting system

bp pulse network



Seamlessly access the UK's largest public charging network from bp pulse and your private depot / workplace chargepoints with the same RFID card



General specifications

	Single Phase	Three Phase
Product code	PVG7S2	PVG22S2
Connectivity	4G/LTE, Wi-Fi, Ethernet	4G/LTE, Wi-Fi, Ethernet
Input:	230V AC 50/60Hz	400V AC 50/60Hz
Rated Current	1P + N + E 32A max	3P + N + E 32A max
Power Level Control	10-13-16-20-25-30-32A	
Electrical output to vehicle:	220-240V AC 50/60Hz	400V AC 50/60Hz
Dimensions (W x H x D)	315 x 460 x 135mm	
Shipping weight	Typically, 4.5kg	Typically, 5.0kg
Warranty	Comprehensive three years parts and labour warranty.	

Technical specifications

Output connector socket (Single and Three Phase)	Type 2 IEC 62196
Operating temperature range	-35°C to +55°C
Operating humidity range	5% to 95% non-condensing
Ethernet	10/100BaseTX
4G/LTE operating frequency band, subject to network connectivity	E-GSM 900, DCS 1800, UMTS Band I, UMTS Band VIII, LTE Band 1, LTE Band 3, LTE Band 7, LTE Band 8, LTE Band 20, GPS L1/GLONASS G1/BDS/Galileo E1
Wi-Fi Operating frequency bands, subject to network connectivity	Wi-Fi frequency 802.11 a/b/g/n 2.4GHz and 5GHz
RFID system	ISO 14443A/B and ISO 15693
Communication protocol	Ocpp 1.6J
Mechanical impact protection rating	IK10*
Ingress protection rating	IP54
Display	4.3" TFT LCD Display
Measurement	Built-in MID Meter

* IK08 for display



Technical specifications cont.

Rated current of a circuit	32A	
Additional requirements	Type A RCD, over-current protection	
Type of earthing system intended for the installation	TN-C-S and TT	TN-C-S
Intended for use by ordinary persons or skilled persons?	Ordinary	
EMC classification	Class B	
Special service conditions	4G/LTE, Ethernet, Wi-Fi	
Nature of short circuit protection devices	External over-current protection	
Measures for protection against electric shock	External 30mA AC current leakage protection and over-current protection, built-in 6mA DC current leakage protection	



<p>EU EMC Directive 2014/30/EU</p>	<p>Harmonised Standards: IEC 61851-21-2: EMC requirements for off board electric vehicle charging systems IEC / EN 61000-6-2: Immunity standard for industrial environments IEC / EN 61000-6-3: Emission standard for equipment in residential environments IEC / EN 61000-4-2: Electrostatic discharge IEC / EN 61000-4-3: Radiated RF immunity IEC / EN 61000-4-4: Electrical Fast transient burst immunity IEC / EN 61000-4-5: Surge immunity IEC / EN 61000-4-6: Conducted RF immunity IEC / EN 61000-4-8: Power frequency magnetic field immunity IEC / EN 61000-4-11: Voltage dips, short interruptions and voltage variation immunity CISPR 32 / EN 55032: Conducted emissions CISPR 16 / EN 55016: Radio disturbance and immunity IEC / EN 61000-3-2: Harmonic current emissions IEC / EN 61000-3-3: Voltage fluctuations and flicker</p>
<p>EU Low voltage directive 2014/35/EU</p>	<p>Harmonised Standards: IEC / EN 61851-1</p>
<p>EU Radio Equipment Directive (RED) 2014/53/EU</p>	<p>Harmonised Standards: EN 301 489-1 Radio EMC EN 301 489-3 Radio EMC EN 301 489-17 Radio EMC EN 301 489-52 Radio EMC EN 300 330 Radio Spectrum EN 300 328 Radio Spectrum EN 301 908-1 Radio Spectrum EN 301 511 Radio Spectrum EN 50364 Radio RF Safety</p>
<p>EU RoHS Directive 2015/863/EU</p>	<p>Harmonised Standards: EN 50581 EN 62321-1</p>

Certification Markings



Order codes

Chargers

	SKU	Description
Single	PVG7S2	EVC04-AC7SWLDMID Public 7kW Single
	PVG22S2	EVC04-AC22SWLDMID Public 22kW Single
Single + post mount	PVG7S2RE1	EVC04-AC7SWLDMID Public 7kW Single post
	PVG22S2RE1	EVC04-AC22SWLDMID Public 22kW Single post
Dual + post mount	PVG7S2RE2	2xEVC04-AC7SWLDMID Public 7kW Single post
	PVG22S2RE2	2xEVC04-AC22SWLDMID Public 22kW Single post

Further descriptions

Single Phase (7kW)

230V AC, 16A (3kW), 32A (7kW)

Three Phase (22kW)

400V AC, 16A (11kW), 32A (22kW)

Internet connected via Wi-Fi, wired LAN ethernet or 4G/LTE

Provides required connectivity between EVSE and the Charge Point Management System (CPMS)

LED status indication

Status of the charger is indicated on the front of the charger with a multi-function LED ring (visible when powered): Blue indicates idle, the unit is ready to deliver a charge. Green indicates that a charge is being delivered. White indicates that the unit is disabled a connected EV will not charge without being enabled by and authorised user (via the app or portal). Red indicates that a fault may be present.

Display

Effortless engagement thanks to the 4.3" screen. The charging session information are clearly displayed to users on the screen.

Chargevision portal

Our cloud-based management platform is accessible to site and fleet managers via a web portal for real-time monitoring, reporting, and historical usage data.

Over-The-Air updates

New features, bug fixes, security updates and critical configuration updates can be done by OTA.

Load Management

This feature automatically distributes available power evenly across sockets within a defined cluster of up to 32 chargers on a site whilst maintaining a minimum charge current of 10A (2.3kW). This allows up to 3x the number of sockets to be installed without the cluster ever exceeding its supply limit, avoiding the need for costly infrastructure upgrades. Furthermore, the feature helps avoid costly demand penalty charges.