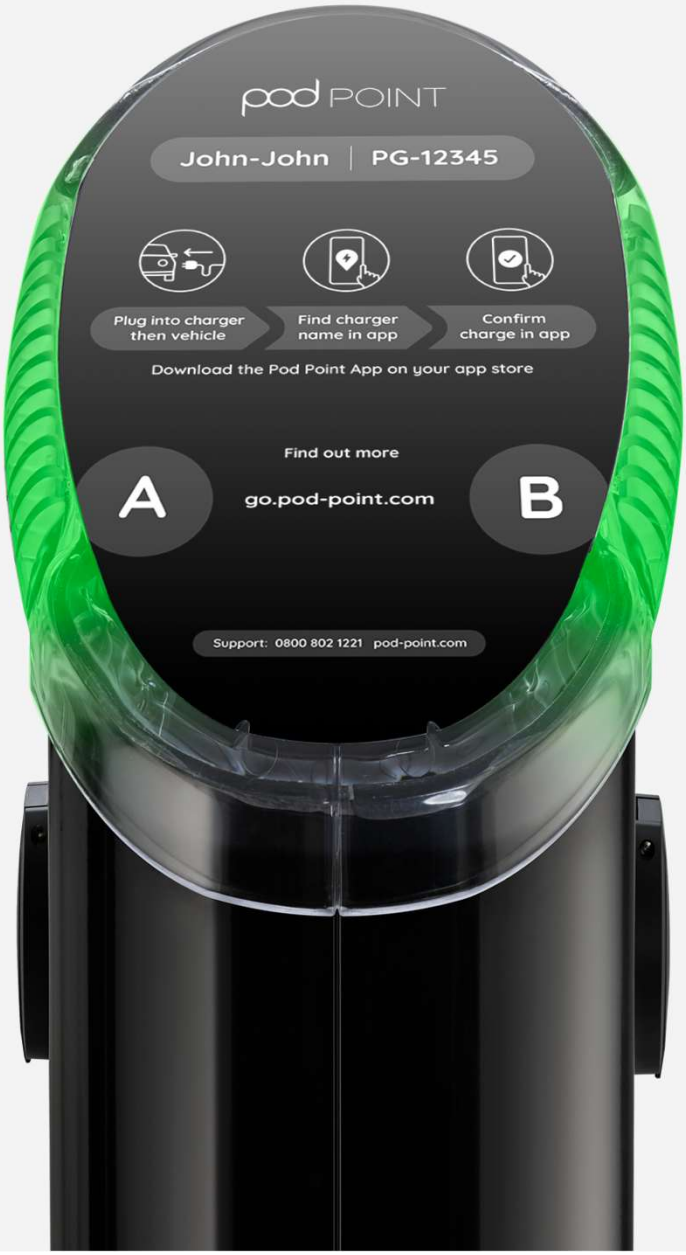
Datasheet
Twin V7 Charger

Hardware

Fast Charging

PDD-2400057-3



www.pod-point.com

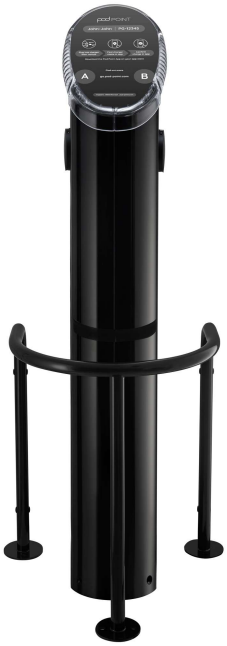
pod POINT

Twin Charger

The Twin Charger is a dual Type 2-socketed vehicle charger suitable for commercial and public installations. The Twin Charger is available for both single & three phase electrical supplies. Each Twin charger comes with a surface mount foundation plate, with signage and guard rails as optional extras.

Speed category	Fast Charging
Charging speed (s)	Up to 7kW (single-phase) Up to 22kW (three-phase)
Product family	Twin

- Dual vehicle charging
- Wi-Fi enabled (3G/4G available)
- Smart Reporting & Pod Point Network enabled
- 3 Year Warranty



Guard rail shown for reference

Model numbering

The variations of the Twin Charger are signified by the model number - this format is detailed to the right.

T7-S-07-XXX*-BLK

Type *Variant Customisation

Model numbers					
Type		**Variant**		**Customisation**	
T7	Twin single-phase (up to 7kW)	AX*B	Standard	BLK	Standard Black
T22	Twin three-phase (up to 22kW)	AX*C	Standard + Router	CUS	Customised

**X denotes internal hardware variant.*

Twin Charger

Technical specifications	T7 Single Phase Models	T22 Three Phase Models
Charge Protocol	EV supply equipment intended for Mode 3 (ac) charging	
AC Operating Voltage	230v AC 50Hz (per socket)	400v AC 50Hz 3P+N (per socket)
Rated Insulation Voltage	500VAC	
Rated impulse Voltage	4kV (CAT III)	
Nominal Current	32A (per phase per socket) 64A (per phase combined)	
Rated short-circuit current	10kA	
Let-through energy withstand (I^2t)	≤ 75 000 A^2s	
Power Output	Up to 7kW* (per socket)	Up to 22kW* (per socket)
Power Consumption (standby)**	10Wh - (12Wh with 4G router)	
Earthing system	TT, TN-S, TN-C-S	
Internal RCD Protection	Type A 30mA (BS EN 60947-2) per socket	
Internal DC Leakage Protection	Internal 6mA DC detection (IEC 62955) per socket	
Internal Overcurrent Protection	Internal C40A, 10 kA, 2/4 pole MCB (BS EN 60898) per socket	
User Cable Over-current protection	Dynamic (dependant on cable rating used)	
Upstream RCD Protection	Recommended (Required in some circumstances)	
Protection against electric shock Pollution Degree Overvoltage category	Class I* Pollution degree 3 Category III	
EMC classification	Class B (residential emissions, non-residential immunity)	
Cable Terminal Capacity	Copper Cable Min 6mm^2 - max 25mm^2	
Connectivity		

Wi-Fi	(IEEE 802.11bgn) @2.4 Ghz	Station addressing scheme	Dynamic
Connection security	Secure data encryption HTTPS	3G/4G	Optional router available
TCP	Port 443	Pod Point App	Pair via Wi-Fi
Channel Mask	1 to 13	Smart charging	Enabled
Scan RSSI Threshold	-95dB		

*Twin chargers may be remotely de-rated if required

Twin Charger

Physical Properties	T7 Single Phase Models	T22 Three Phase Models
Socket type	Universal Type 2 [1]	
Socket height	1000mm	
Finish	**Anti-graffiti**	
Standard colours	**RAL9005** **RAL9003**	
Operating temperature	**-25°C to 40°C**	
Operating humidity	**95% Max**	
Environmental use	**Indoors and Outdoors with non-restricted access**	
IP and IK (Ingress/Impact) Rating	**IP54 IK10**	
Height / Width / Depth	**1330mm / 241mm / 295mm**	
Shipping dimensions	**1480mm/340mm / 370mm**	
Weight	**16.9kg (17.2kg with router)**	**18.8kg (19.1kg with router)**
Shipping weight	**24kg**	**30kg**
Surface Mount (details)		
Height / Width / Depth	**400mm / 370mm / 60mm**	
Weight	**2.5Kg**	

[1] *User provides the suitable charging cable, supplied with the vehicle or purchased separately in accordance with IEC 62196.*

Standards & Compliance	
Socket compliance	IEC62196-2:2016 (with lock & lock status)
Standards compliance	Radio Equipment Directive (2014/53/EU) / Radio Equipment Regulations 2017 EN IEC 61851-1 and -21-2 EN IEC 62196-2:2016 ETSI EN 301.489-1 ETSI EN 300.328 ETSI EN 301.908-1 and -13 RoHS, REACH, WEEE Electric Vehicle (Smart Charge Points) Regulations 2021

.

Twin Charger

Access

- For full user guide details please see the Twin charger user guide on our technical documents page via pod-point.com
- Each charging socket is protected by a hinged flap.
- Users begin charging by connecting their charging cable with the Twin and their vehicle.
- Authenticate and confirm a charge via the Pod Point mobile application.

Data & fees

- To connect and communicate to the Pod Point Network a data contract must be maintained.
- Data costs will vary alongside contract duration and feature requirements.
- All of our Twin Chargers use the industry standard Mode 3 charging protocol.

Installation

- For full installation details please see the Twin charger installation guide document on our technical documents page via Pod Point.com
- All Twin chargers are designed for either open air or protected environments.
- Each Twin is supplied with a Surface Mount foundation plate
- Ancillaries such as feeder pillars, protective guards, signage and more are all available from Pod Point.
- Pod Point can provide a turn-key service for the installation and commissioning of Twin Chargers.
- Pod Point chargers are not put into service or valid for their warranty until installation is in accordance with Pod Point's protocols and local regulations have been verified.
- Our on-board 6mA DC Leakage protection is fully compliant with BS 7671:2018 - regulation 722.531.2.101. This can be used safely in conjunction with a Type A RCD/RCBO, instead of requiring a more costly Type B RCD.
- All Pod point charging units include the Pod Point PME fault protection system, which provides complete earthing protection in compliance with BS 7671 regulation 722.411.4.1(v) with the option to use 722.411.4.1 (iv) on single phase units. There is no need to install an additional earth rod for protection against PME faults.

After sales service

- We will not undertake any repairs for any out-of-warranty failures without first receiving acceptance of our quotation for related costs. Refer to the Twin installation guide for further details of supply requirements.

Smart charging

- Charging may at our discretion briefly be interrupted or rate-limited for brief periods to facilitate grid management in periods of peak local, regional, national demand or for other reasons. We may use data generated by or connected to your charger for such purposes. If utilised, Pod Point will manage these limits to mitigate any significant effect on vehicle charging times overall.

Limitations of use

- Pod Point do not authorise the use of charging cable adaptors and "smart" cables due to their impact on safety.* Our chargers must only be used with European certified vehicles and cables (damaged or non-approved cables should not be used with any EVSE or vehicles).

**BS EN61851-1 forbids the use of in cable adaptors and cables that change the operational state of the EVSE (smart cables).*

Warranty and support

- To maintain our thirty-six-month limited warranty, installation shall be in accordance with Pod Point's guidance and all relevant legislation and installed by a certified electrician.
- Any hardware failure should be promptly reported to us, ideally by email to support@pod-point.com or by calling our support team on 0207 247 4114. You must quote the serial number and location of the product with a brief description of the failure.
- Our support team will then investigate and attempt to remotely resolve the issue. They may ask you to provide additional information to assist in this.
- If the issue cannot be resolved remotely, and the product is within warranty, we will arrange for one of our team to visit. If the issue is a result of any shortcoming in design or manufacture it will be made good free of charge or at our option, exchanged for a replacement product. If we attend site and the fault is not a result of a design or manufacture issue of our product, we will make reasonable attempts to diagnose the issue and propose a resolution which may have a fee associated with it. A call out fee will be applicable where our product is not at fault.

Limitation of liability

- In no event will we accept any liability for any loss, costs or damages consequential of the use and/or misuse of our hardware products, except and only to the extent that this is caused by our negligence.

pod POINT