



Voltempo's HyperCharger

- **Next-generation electric vehicle Megawatt Charging System (MCS)**
- **Futureproofing your charging needs as HGV technology evolves**
- **Flexibility - no need to decide what charger rating to install**

How it works

Instead of multiple charging stations servicing one or two vehicles at a time, Voltempo's HyperCharger has one central charging unit and multiple chargepoints, dynamically sharing the power between vehicles.

Our unique dynamic charging system reallocates power as required to ensure every vehicle gets the right amount.

So, if you need ultra-fast charging of a single vehicle at 1MW, the system can do that, or you want multiple vehicles charging at a slower speed, perhaps overnight...it can do that too.

Providing a charging system fit for today and ready for tomorrow



Our chargers are plug & charge enabled¹ — we've simplified the charging by automating the authorisation and payment process and removing the need for RFID and payment cards.

Voltempo's HyperCharger:

Dynamic, flexible and efficient distribution of power to meet your needs

Get in touch

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¹ Via software update

POD	Input Voltage Range	400-433V, 3 Phase, 50Hz ±1 Hz
	Rated Active Input Power	1225kW
	AC Rated Input Current	1630A rms/Phase
	Earthing System	TN-S
	Input Power Factor	≥ 0.99
	Maximum Rated Output	1000V @ 1000A –1000 kW system
	Output voltage range	150VDC -1000VDC
	Output current range	0 – 1000A
	Maximum output quantity	6 connectors
	IP Rating	IP55
	Dimensions	W5400 x H2500 x D1060
	Efficiency	>96% typical, 95% rated
Chargepoint	Connectors	CCS-2 MCS will be available once the standard is ratified
	Cable Reach	Starting from 5 meters
	Maximum Output Currents	CCS-2 500A continuous liquid cooled x2* CCS-2 375A continuous (with 525A boost) x 4** *one of the two CCS-2 500A output is capable of being upgraded to MCS 1MW once standard ratified **All upgradeable to 500A continuous as required
	Dimensions	W888 x H3020 x D888
	IP Rating	IP65
Power sharing	Power Sharing	Dynamic power sharing between vehicles to optimise charge times via CSMS
	Power Sharing Management	Via Charge Station Management System (CSMS)
Communications	Back Office Integration	Open Charge Point Protocol (OCCP) 2.0.1
	WAN Connectivity	Wi-Fi and 4G/5G cellular communications
Operating Environment	Operating Temperature	Charge Pod -30°C – 65°C Chargepoint -30°C –65°C
	Over Temperature Protection	Power derating above 55°C and below -20°C
	Humidity	<95% RH non-condensing
	Pressure/Altitude	79kPa – 106kPa/2000m
	Maximum Operating Altitude	2000m (6,562 ft)

AS TESTED AND
INSTALLED IN eFREIGHT

Technical Specification
HyperCharger
Specifications subject to change

POD	Input Voltage Range	400-433V, 3 Phase, 50Hz ±1 Hz
	Rated Active Input Power	1000kW
	AC Rated Input Current	1335A rms/Phase @ 433V
	Earthing System	TN-S
	Input Power Factor	≥ 0.99
	Maximum Rated Output	1000V @ 960A – 960kW system
	Output voltage range	150VDC-1000VDC
	Output current range	0 – 960A
	Maximum output quantity	6 connectors
	IP Rating	IP55
	Dimensions	W5400 x H2500 x D1060
	Efficiency	>96% typical, 95% rated
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