



HYDRA GENESIS

7kW/22kW

- Commercial or Public Charging Application
- Dual Type 2 Socket Charging Outlets
- 7kW or 22kW Output's
- No Earth Rod Required (PEN Protection)
- Dedicated Output RCDs
- IP55 Rated
- Anti-UV Protection
- OCPP 1.6J Compliant
- Connectivity (Ethernet/WIFI/4G)
- 5" LCD User Interface
- Fabricated Sheet Aluminium
- Optional Pensio contactless payment module



The Hydra Genesis fast AC EV charger suitable for the workplace, office and any commercial location – available in dual 7kW or 22kW options.

Sleek, aesthetic and minimalistic 'totem' design just 1.5m high with a compact footprint. It comes complete with a 5" LCD user interface to display real-time information about the charge status of connected EVs.

The RFID card-reader will control access to the charger and monitor usage, it is also available with the optional Pensio contactless payment module which allows app-free charging to users outside of your organisation, and a valuable potential additional revenue stream.

The Hydra Genesis is OCPP compliant which allows secure and real-time communications with our unique Nexus Cloud management platform via a wired network or 4G data connection. Nexus Cloud is a complete EV charging network management facility allowing real-time monitoring of your entire network.

The Hydra Genesis dual-output models require a 400v three-phase electrical supply, which can be found in larger industrial premises and office blocks, this is sufficient enough to power the Genesis to deliver dual 7kW, 22kW charging power (for vehicles which can accommodate the higher AC input).

The Hydra Genesis has built-in safety functions which can shut down the charger if it detects input under voltage, input over-voltage, output short-circuit, output over-voltage, output over-current, battery reverse connection, insulation detection, communication failure, etc. Additionally there is a fail-safe emergency stop button fitted to all Hydra EV chargers which can be manually operated in the event of a failure.

The Genesis is designed from the ground up to be a highly efficient and reliable EV charging solution with very low maintenance demand.



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Main Product	Hydra Genesis Lite	Hydra Genesis Pro
Dimensions (mm)	L1200 x W240 x D340 (mm)	
Weight	48kg	
Operating Temperature	-25°C to +50°C	
Storage Temperature	-40°C to +80°C	
Material	ABS Plastic and aluminium alloy	
Certifications	CE/UKCA	
Charing Power	Dual 7.4/22kW	
Charging Current	6-62A (adjustable)	
Voltage	230/400V (1/3-phase, 50-60Hz)	
Charging Mode	Mode 3	
Charging Socket	Type 2	
Fixed Charging Cable	No	
Energy Metering	Integrated MID meter (±1%) accuracy on readings	
User App Configuration	Control charging with the commerical app	
Charging Status	Dynamic LED ring for charging status	
Authentication	Built-in RFID/NFC reader	
Cloud Connection/Network	4G LTE, LAN	
Communications Protocol	OCPP 1.6J, OCPP 2.0.1 (future)	
Installer App and Configuration	Configure with the installer app through Bluetooth Low Energy (BLE 4.2)	
Installation Circuit	80A Circuit Breaker	
Cable Diameter	Max. 25mm	
RCBO	30mA AC + 6mA DC	
Overvoltage Category	III	
Instulation Class	I	
Fire Classification	UL94	
IP Rating	IP54	
Impact Resistance	IK10	
Temperature Monitoring	Internal sensors	
O-PEN Detection	Integrated	
Contactless Terminal	No	Yes