



## HYDRA DION

### 20kW / 30kW / 2x20kW

- Wall-mounted design (optional pedestal mount available)
- Single/ Dual CCS2 Charging Connectors
- 10" digital user interface
- Single/Dual 20kW or 30kW DC Charging
- RFID access or simple Plug and Charge
- Fabricated from sheet metal
- Three-phase (260-530v AC) input
- Integrated with Hydra Cloud or Hydra Nexus for complete cloud based monitoring and management.
- OCPP 1.6J compliant. Compatible with other platforms
- Anti-UV protection and IP55 rated
- Ethernet or 3G/4G connectivity
- No earth required (PEN Protection)
- Smart air cooling
- Optional PENSIO contactless payment solution



**T**HE HYDRA DION FAST DC EV CHARGER provides dynamic, load balanced power distribution for two vehicles each receiving 20kW or one EV being charged at 30kW DC.

The Hydra Dion is fitted with a single or double CCS2 charging cables, according to customer requirements. It can be connected to any three-phase AC input.

A lower powered DC charger can be a very cost-effective way to achieve faster charging times as it bypasses the onboard AC charger (which could be limited to 11kW) in your EV. This means an average 60kWh family EV could be fully recharged in under 3 hours instead of over 8 hours on a domestic 7kW chargepoint.

With an IP55 rated dust and waterproof design it is both suitable for outdoor use or inside a parking garage. The sleek and compact DION EV charger is perfect for installations where space is limited as it can be wall-mounted but can also be supplied with an optional pedestal mount.

Access to the charging functions can be

controlled by the built-in RFID card reader allowing only authorised users or staff members to start and stop the charging process. We also offer an optional **PENSIO CONTACTLESS PAYMENT SOLUTION** allowing simple, app-free charging functions giving you the opportunity to generate revenue from the EV charger by allowing other users to pay on demand.

The Hydra Dion can self-detect the specification of the vehicle being charged – car, van, HGV or public transport vehicle - as well as its battery charge status and displays the information on the external 5" data screen in real-time.

Like all Hydra EV charging products the DION is OCPP compliant for data transfer and communications and can be fully managed and monitored in real time via our **Hydra Cloud** or **Hydra Nexus** platforms which can monitor and manage a single device or an entire nationwide network. The Dion can connect via wired ethernet (standard) or by 3G/4G data network (optional).



## HYDRA DION 20kW/40kW

<b>Features</b>	Installation (Hanging plug wire and plug head)	Wall-mount/Floor-stand
	Rated Power	20kW / 30kW or Dual 20kW
	Charging Mode	Plug andcharge, RFID Card
<b>Input characteristics</b>	Input voltage	Three phase AC 380V±15%(3P+N+PE)
	Grid frequency	50Hz/60Hz±1Hz
	Input current	20kW – 33A 30kW – 50A 40kW – 66A
	Power-on input impulse current	≤ Maximum input current 120%
	Input protection	Overvoltage, undervoltage protection, lightning protection, phase loss detection
	Input micro break	With Type A leakage micro-break
<b>Output characteristics</b>	Output current	100A
	Output voltage	DC 150V~1000V
	Output current limit protection	Yes
	Output short circuit protection	Yes
	Stable current accuracy	≤±1%
	Stable voltage accuracy	≤±0.5%
	Ripple factor	≤±0.5%
	Effectiveness	≥95%
	Power factor	≥0.98
	Working temperature	-30°C~+50°C
<b>Structural electrical</b>	IP protection level	IP55
	Size	760 x 500 x 280mm
	Wind tunnel	Bottom in top out
	cooling method	Smart air cooling
	Altitude	≤2000m
	Noise	≤60dB

V0003 21/08/2023



## HYDRA DION 20kW/40kW

<b>Connection method</b>	Connection method	Type C
	Plug standard	CCS2
	Standard	EN IEC-61851-1:2019; EN61851-23:2014; EN 61851-24:2014; EN IEC 61851-21-2:2021
	Cable Length	4m
<b>User Interface</b>	LCD	High-definition highlight industrial touch screen
	LED	Charging green, fault red
	Button	EPO(Emergency stop detection)
<b>Detection function</b>	Emergency stop detection	Emergency stop cuts off DC output
	DC voltage sampling	DC+, DC- output DC voltage sampling
	BAT battery sampling	BAT+, BAT- battery voltage sampling
	DC current sampling (Front end of DC contactor)	DC output current sampling
	Measurement accuracy	Level 1
	Battery reverse connection detection	Prevent the gun tip or battery from being reversed
	Connection temperature	Plug temperature detection
	Ambient temperature	Temperature check inside the case
	Insulation detection	DC+ and PE, DC- and PE impedance
	Leakage current detection	30mA leakage protection switch
	Protective function	Output short circuit protection, output over voltage protection, output over current protection, fan failure alarm
<b>Maintenance</b>	USB upgrade	Firmware upgrade
<b>Other</b>	Welding inspection	1 second discharge below 60V

V0003 22/08/2023