



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



THE 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

Model		HD-20-DC-BLK	HD-30-DC-BLK	HD-40-DC-BLK
AC Input	Input Rating	AC380V(±15%) 3ph	AC380V(±15%) 3ph	AC380V(±15%) 3ph
	AC Input Connection	3P+N+PE	3P+N+PE	3P+N+PE
	Rate Input Current	3Ø33A	3Ø50A	3Ø66A
	Frequency	50/60Hz	50/60Hz	50/60Hz
	Power Factor	≥ 0.99	≥0.99	≥ 0.99
	Efficiency	≥ 95%	≥ 95%	≥ 95%
DC Output	Output Voltage Range	200V-1000V	200V-1000V	200V-1000V
	Max Output Current	66A(system)	80A(system)	133A(system)
	Max output Power	DC20kW	DC30kW	DC40kW
	Voltage Accuracy	≤ ±0.5%	≤ ±0.5%	≤ ±0.5%
	Current Accuracy	≤ ±1%	≤ ±1%	≤ ±1%
COMPONENT SPECIFICATIONS	Dimensions	20 & 30kW = 500(H)mm x 370(W)mm x 290(D)mm 40kW = 790(H)mm x 580 (W)mm x 29 (D)mm		
	Weight	64-70kg		
	Cable length	4.5m		
	Shell material	Metal		
	Screen	10.1" LCD touch screen		
POWER CHARACTERISTICS	Input voltage	Three Phase AC 380 ±15% (3P+N+PE)		
	Input frequency	50hz/60hz ±1Hz		
	Rated power	20kW & 30kW models (One output) 40kW model (Two outputs, single 40kW or double 20kW)		
	Measurement accuracy	≤±0.5%		
	Output voltage	DC 150~1000V		
	Output current	100A		
	Input Current	50A per phase		
	Efficiency	≥94%		
	Factor	≥0.99		
DESIGN FEATURES	UI	Emergency stop button, LED indicator		
	Charging Method	RFID Plug and charge, APP (timed start and stop) 17		
	Charging Cable	CCS2		
COMMUNICATION	Web interface	WiFi, Wired Ethernet, 3G/4G		
	OCPP	OCPP 1.6J		

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WORKING ENVIRONMENT	Use	Indoor/Outdoor
	Operating temperature	-30°C ~ +55°C
	Operating humidity	5% to 95%
	Elevation	<2000m
	Protection level	IP55
	Enclosure Protection	IK10
	Cooling method	Ambient air cooling
	Ground detection	30mA
	Sound level	≤50db (normal input/output power at ambient 25°C)
	RoHS	Meets the R5 requirements of the RoHS directive

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