

HPC/FAST DISPENSER 480 kW



* Range calculation based on the average consumption provided by EV manufacturers according to the WLTP standard, 15 kWh per 100 km.

VEGA Chargers

VEGA Chargers is a company specialized in the design of DC fast electric vehicle charging stations.

At VEGA Chargers we work every day to make possible a **more sustainable present and future in terms of mobility**, for this we analyze the needs of our customers and provide flexible and scalable charging solutions for electric vehicles, starting with the conception and design, and then passing through manufacturing and distribution.

Less charging time for your electric vehicle

Our HPC ultra-fast dispenser provides **charging power up to 480 kW** in each CCS2 connector of 375 A (boost 500 A) and a **maximum output voltage of 1000 V**. It can offer a range of up to **100 km for every 2 minutes of connection***.

We offer

Experience and knowledge · Commercial network · Technical support · Technical training · Consultancy for mobility

Applications



Service stations



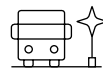
Electric mobility hub



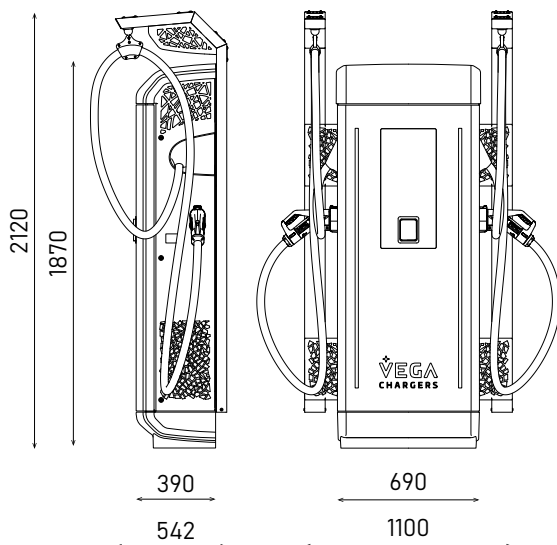
Car park for public or private use



Corporate fleets and carsharing




Service vehicles and public transport



Characteristics

- Two available models: HPC and FAST.
- Dynamic power balancing.
- RGB LEDs of charging status on front door.
- Super silent system.
- Autocharge.
- 10.1" TFT color touch screen.
- Cashless payment terminal (optional).
- DC meter for each connector (optional).
- Cable management (optional).
- Metallic body. High resistance stainless steel.
- Installable against wall, two equipments back to back and in parallel.
- Lateral ventilation.



		FAST DISPENSER		HPC DISPENSER	
ELECTRICAL DATA	INPUT				
	Supply voltage	AC	230 Vac ± 10% (1P+N+PE) 50/60 Hz		
		DC	2 x DC 1000V		
	Nominal input current	AC	16 A		
		DC	2 x 250 A (375 A boost)	2 x 500 A	
	DC OUTPUT				
	Max. Output power	Single charging: 480 kW, (Simultaneous charging: 240 kW each)		480 kW each connector	
	Output voltage range	200 - 1000 Vdc			
	Max. Output current	1 x 500 A (2 x 500 A)		2 x 500 A	
	Output connector	CCS2 + CCS2			
					
Cable length	4,5 m				
ELECTRICAL PROTECTIONS					
DC Output	Isolation Monitoring Device + Output Fuse				
MECHANICAL DATA	Dimensions (H x W x D)	1870 mm x 690 mm x 390 mm (with Cable Management: 2120 mm x 1100 mm x 542 mm)			
	Weight	234 kg (with Cable Management: 304 kg)			
	Mechanical impact protection	IK 10			
	Housing material / colour	Stainless steel and PUR (V0) / Customizable			
	Installation method	On the ground (Anchor bolt or structural foundation) Unloading and installation by forklift or upper eyebolts			
ENVIRONMENT	Ingression protection	IP55			
	Temperature range operation	-10°C to +55°C (-30°C to 55°C with optional heater)			
	Temperature range storage	-35°C to +70°C			
	Humidity	5% to 95% RH non condensing			
	Cooling system	Exhaust fan			
	Operational noise level	≤ 50 dB (1 m away in all directions)			
	Altitude (max.)	2000 m			
GENERAL	User interaction	10,1" TFT colour touch screen			
	Communication protocol	OCPP 1.6J; Modbus TCP; Modbus RTU			
	Communication interface	4G (optional); WiFi (optional); RS485; Ethernet			
	Access and identification	RFID reader (MIFARE Classic; MIFARE DESfire EV1, EV2; NFC Forum Type 4); Internal white list; Activation pin code; Autocharge; QR code; APP			
	Payment terminal	Cashless payment terminal (optional)			
	Status charging lights	RGB LED dedicated for charging connector			
	Metering	DC meter (optional)			
STANDARDS & CERTIFICATIONS	IEC/DIN/ISO	IEC 61851-1 ed 3; IEC 61851-21-2 ed 1; IEC 61851-23 ed 1; IEC 61851-24 ed 1; IEC 62196-1; IEC 62196-2; IEC 62196-3; IEC 61000; DIN70121; ISO 15118-2:2014 ed.1; ISO 15118-3:2015 ed.1			
	EU Directives	LVD 2014/35/EU; EMC 2014/30/EU; RED 2014/53/UE			
	Mark certification	CE			

POWER UNIT

ELECTRICAL DATA

INPUT

Supply voltage	400 Vac \pm 10% (3P+N+PE)
Frequency	50/60 Hz
Max. input current	931 A (600 kW)
Power factor	$>0,99$ (Load > 50 %)
Efficiency	>95 %
THDi	< 5 % (Load > 50 %)
Earthing system	TT / TN - S

DC OUTPUT

Max. Output power	600 kW (720 kW BATT.)
Output voltage range	200 - 1000 Vdc
Max. Output current	2400 A

MECHANICAL DATA

Weight	1.500 kg
Dimensions (H x W x D)	1700 mm x 800 mm x 2150 mm
Power Module Cooling	Liquid Cooling
Max. num. of connectors	12
Operational noise level	< 55 dB (1 m away in all directions)

Diagram illustrating the connection options for the VEGA 600kW power module. The top part shows a single VEGA 600kW unit with a star symbol and a ground symbol. Below it, two connection configurations are shown:

- Configuration 1: Two HPC (High Power Connector) units connected in parallel, labeled "HPC x2" and "4 connectors".
- Configuration 2: One HPC unit connected in parallel with one Fast unit, labeled "HPC x1 + Fast max. 5" and "2 connectors max. 10 connectors".

