

ORBITIS®

energía inteligente



# VIARIS CONSTELLATION

DC FAST CHARGER UP TO 720 kW

SMART SOLUTION FOR ELECTRIC MOBILITY

# VIARIS CONSTELLATION UP TO 720 kW

At ORBIS we work every day to make possible a more sustainable present and future in terms of e-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.

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 1000V. It can offer a range of up to 100 km for every 2.5 minutes of connection\*.



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

## AVANT-GARDE ULTRA-FAST MULTI-VEHICLE CHARGING TECHNOLOGY

# DC HIGH POWER CHARGING

## 1 ULTRA FAST CHARGING

Dynamic distribution of the total power of 720 kW, ideal for big electric vehicles, such as e-trucks, e-bus, etc.

## 2 REINFORCED WEATHERPROOF STRUCTURE

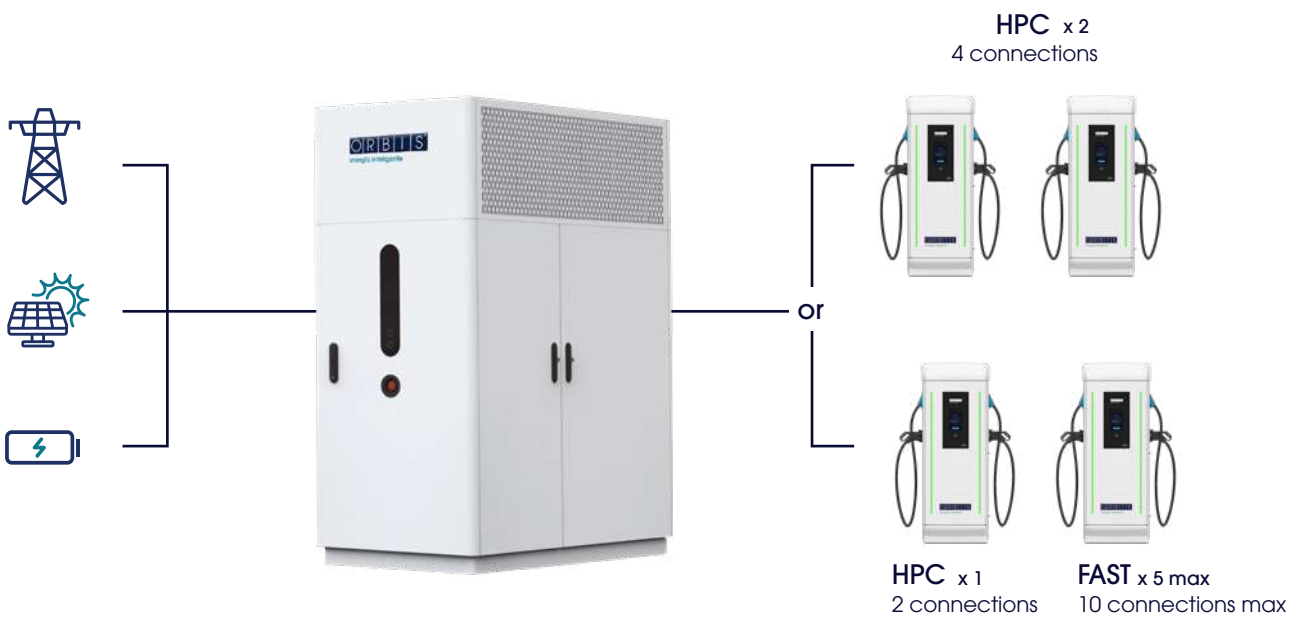
High-strength stainless steel sheet, polyurethane and break-resistant front glass.

## 3 POWERFUL

Dedicated **HPC connectors at 500A** (up to 480kW) **or 250 A in split charge**. In addition, cable management system to make it simple for the user.

## 4 MULTI-VEHICLE CHARGING

Simultaneous charging for up to 12 vehicles, due to the hub that allows up to six VIARIS LANDER 60 kW chargers to be connected, each with two outputs.



# CHARGING SYSTEM MODE 4

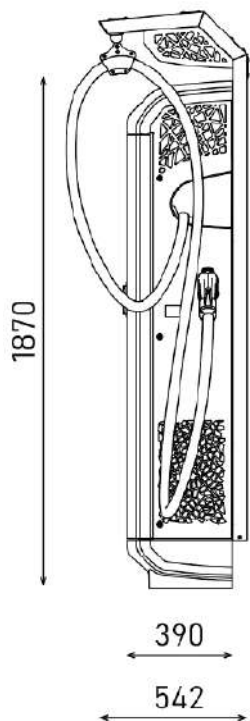
IK10

IP55

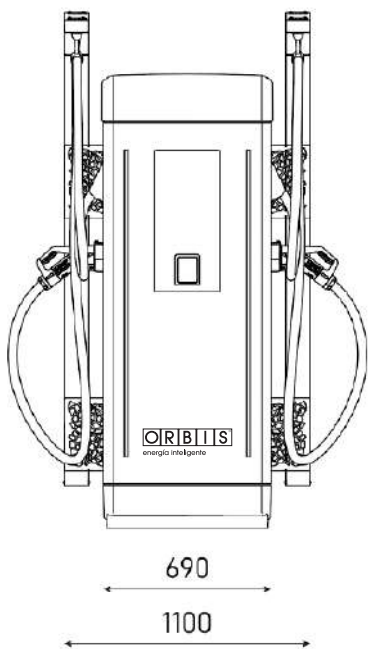
# VIARIS CONSTELLATION UP TO 720 kW

## 720 kW FAST CHARGER

Dimensions (mm)



Fast dispenser / HPC dispenser



Fast Dispenser / HPC Dispenser

### Technical characteristics

Supply voltage	AC: 230 Vac $\pm$ 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
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	2 x 500 A
Output connector	CCS2 + CCS2
Cable length	4,5 m
DC Output	Isolation Monitoring Device + Output Fuse
Weight	234 kg (with Cable Management: 304 kg)
Mechanical impact protection	IK 10
Housing material / colour	Stainless steel and PUR (V0) / Customizable
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	$\leq$ 50 dB (1 m away in all directions)
Altitude (max.)	2000 m
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
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
Max. Output power	600 kW (720 kW BATT.)
Output voltage range	200 - 1000 Vdc
Max Output Current	500 A per connector
Weight	1500 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

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