



# VELOX

## STAND ALONE CHARGER

### INTRODUCING THE VELOX I RANGE

Our Velox Integrated stand alone system serves vehicle charging up to 120kW and has its charging electronics built into the dispenser unit. Velox chargers are uniquely DC supplied to facilitate connection of the charger to a DC microgrid and enable maximum system flexibility with this bi-directional design facilitating also V2G and V2X possibilities.

The charger is available for AC input installations and with CCS and CHAdeMO dispensers. Activation of charging can be done with either RFID tag or through contactless payment, with payment module provided with the charger.



# VELOX STAND ALONE CHARGER

**EASY** installation thanks to the improved design allows to connect and start-up the charger

**DOWNLIGHTS** LEDs for increased visibility

**SILICON CARBIDE** design for high efficiency (98%)

**FLEXIBILITY** for charging electric vehicles, with CCS and/or CHAdeMO

**AUTOMATIC** authentication by plugging-in the CCS connector in the vehicle

**HIGH POWER MODULE** 120kW DC-DC Converter

**ACCURATE** DC metering charges only for the energy taken by the vehicle

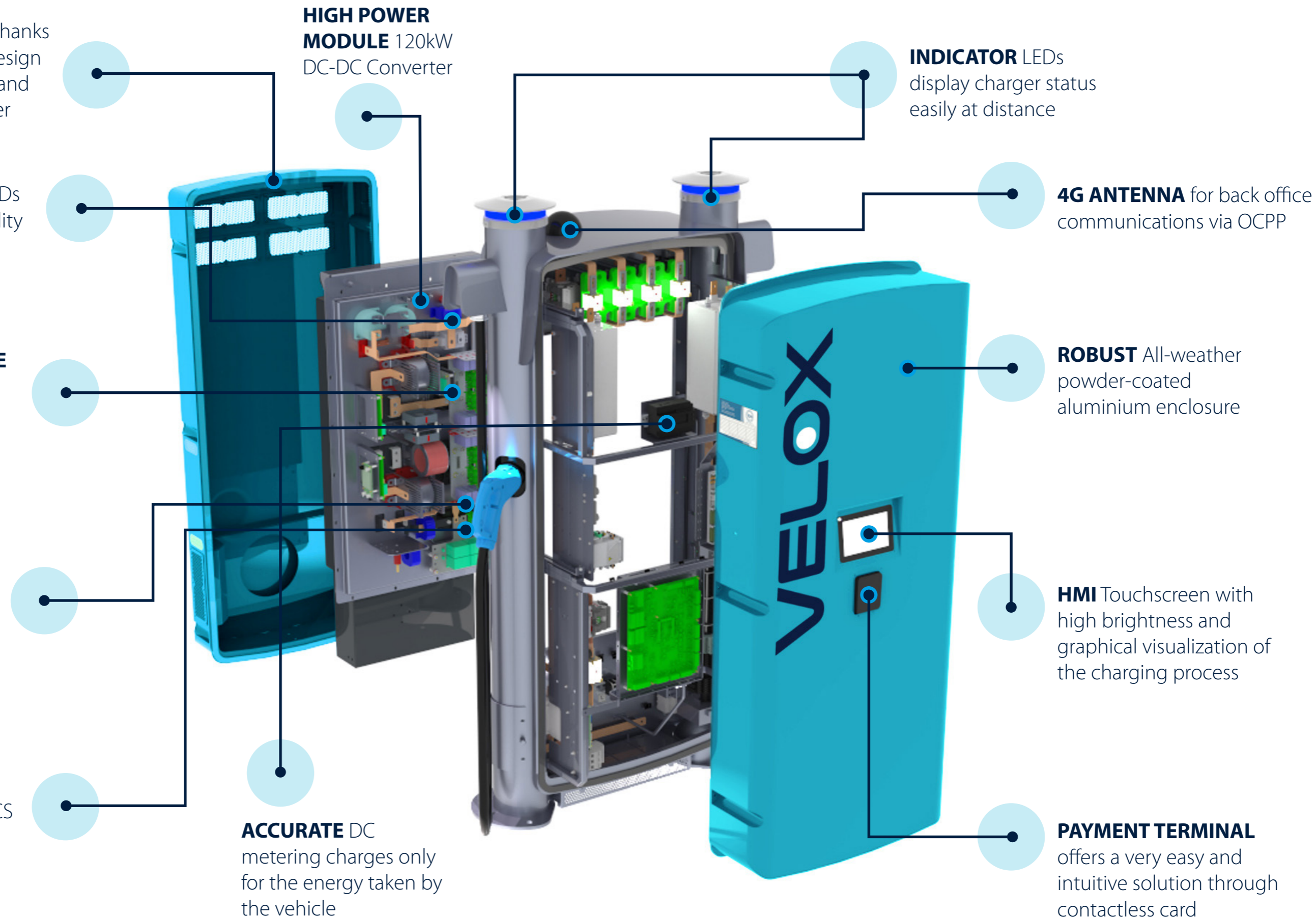
**INDICATOR** LEDs display charger status easily at distance

**4G ANTENNA** for back office communications via OCPP

**ROBUST** All-weather powder-coated aluminium enclosure

**HMI** Touchscreen with high brightness and graphical visualization of the charging process

**PAYMENT TERMINAL** offers a very easy and intuitive solution through contactless card



## ELECTRICAL

Max output power	80kW @ >400V, 120kW @ >600V vehicle battery
DC Input voltage	775-850VDC
AC Input	230VAC, 50Hz
Nominal input current	125 A
Power rating	up to 120kW
Isolation	Galvanically Isolated
Electrical Protections	Main breaker disconnection
Switching Frequency	20kHz
Output voltage	200-920V
Output current	200A
Efficiency	>97%

## INTERFACE AND CONTROL

Connectors / Charging protocols	CCS and/or CHAdeMO with single port operation
User interface / HMI	7" high brightness full color touchscreen display
Status indication LED	LED Ambient and charging indicators
RFID system	ISO / IEC14443-1/2/3 MIFARE Classic
Network connection	GSM/3G/4G modem; 10/100 Base-T Ethernet
Communication Protocol (backend)	Payment module and OCPP v 1.6 / 4G
Communication Protocol (EV)	ISO15118, DIN 70121, CHAdeMO 1.2
Lifting Eyes	M16 Thread

## ENVIRONMENT

Operating temperature	-20 to +40 °C
Storage temperature	-20 to +40 °C
Protection / IP RATING	Power electronics/control area IP56, Rear ventilated area IP22 (containing IP56 fan)
Operating Altitude	1000 m
Enclosure material	Stainless steel
Cooling	Air
Operating Humidity	<95%
Storage Humidity	<95%
Operational noise level	<56 dBA

## GENERAL

Charge cable Length	4.5m standard, longer lengths optional
Dimensions (H x W x D)	1070 (w) x 622 (d) x 1813 (h)
Weight	370kg
Compliance and safety	CE conformity according to EMC and LV Directives / IEC 61851-23



### TPS HEADQUARTERS

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