



VELOX

FLEET CHARGING SYSTEMS

INTRODUCING THE VELOX C RANGE

The Velox Compact ultra rapid charging system can provide up to 480kW of charging power.

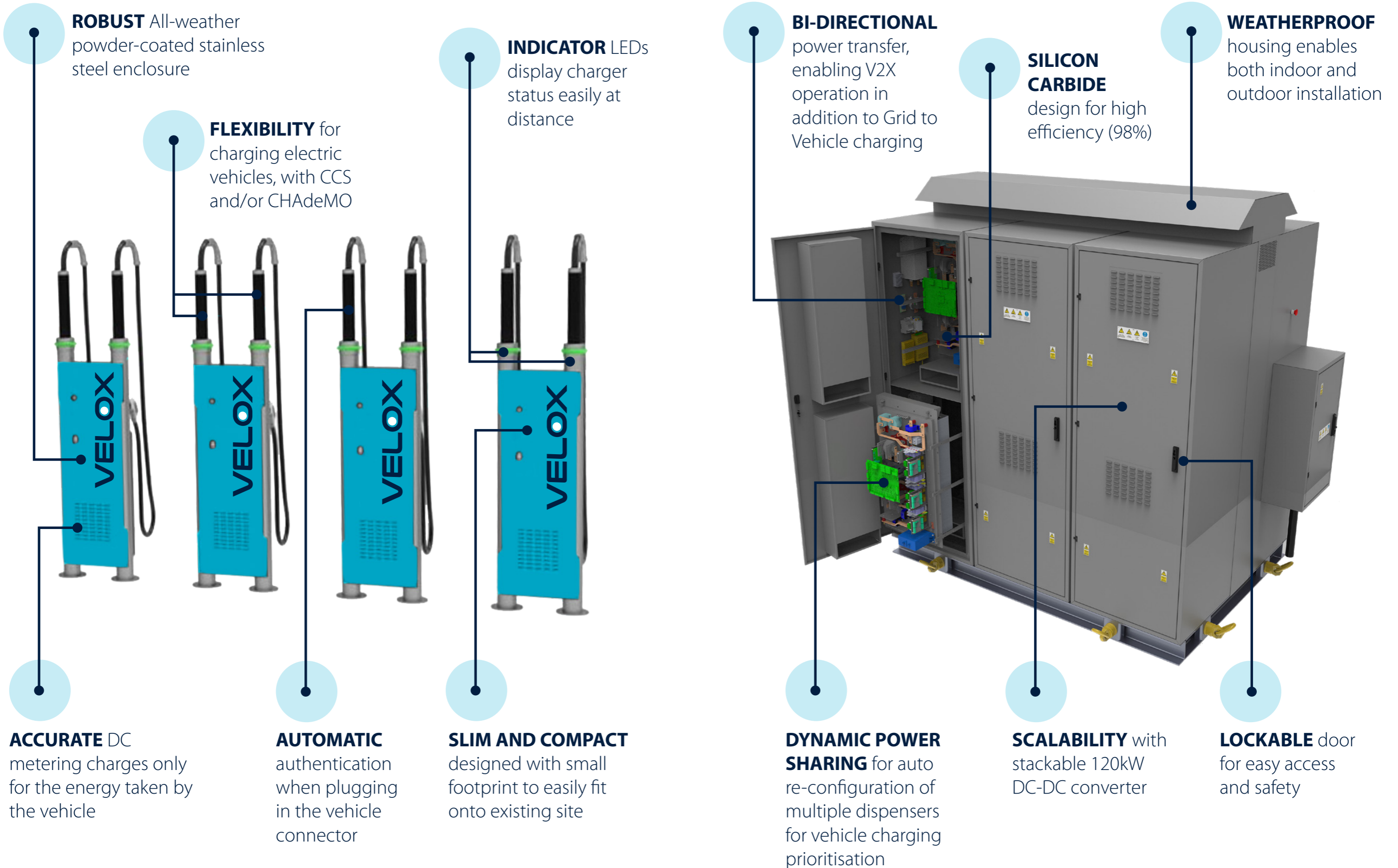
Our TPS developed DCDC power module is housed separately to the dispenser, enabling multiple modules to feed the dispenser, and shift power between vehicles for smart charging fleet operations.

The dispenser can be custom designed for the application depending on the number of charge ports, customer installation and interface requirements.

The Velox C range can be connected direct to the AC grid with the TPS



Distributed Generation Inverter to complete a Smart Fleet system solution. This can be highly flexible and efficient for high speed fleet vehicle charging schemes with reduced requirements for electricity distribution and network upgrade with a simplified single point of network connection to avoid delays.



ROBUST All-weather powder-coated stainless steel enclosure

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

INDICATOR LEDs display charger status easily at distance

BI-DIRECTIONAL power transfer, enabling V2X operation in addition to Grid to Vehicle charging

SILICON CARBIDE design for high efficiency (98%)

WEATHERPROOF housing enables both indoor and outdoor installation

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

AUTOMATIC authentication when plugging in the vehicle connector


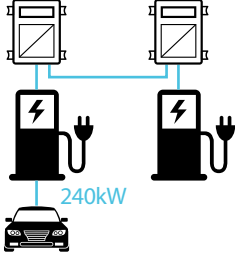
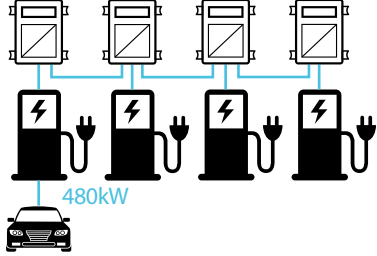
SLIM AND COMPACT designed with small footprint to easily fit onto existing site

DYNAMIC POWER SHARING for auto re-configuration of multiple dispensers for vehicle charging prioritisation

SCALABILITY with stackable 120kW DC-DC converter

LOCKABLE door for easy access and safety

CHARGE DISPENSER

Setup			
Power rating	up to 120kW	1 charger: up to 240kW 2 chargers: up to 120kW each	1 charger: up to 480kW 2 chargers: up to 240kW each 4 chargers: up to 120kW each
Output voltage	150-920V		
Output current	500A liquid cooled 200A air cooled		
User interface / HMI	7" high brightness full color touchscreen display (option)		
RFID system	ISO / IEC14443-1/2/3 MIFARE Classic (option)		
Network connection	GSM/3G/4G modem; 10/100 Base-T Ethernet		
Connectors (Configuration example)	1x CCS or 1x CHAdeMO	1x CCS + 1x CHAdeMO or 2x CCS	
Charge cable length	4.5m standard - longer length optional		
Operational noise level	<56 dBA		

POWER MODULE

Number of Modules	1	2	4
Power rating	120kW	240kW	480kW
DC Input voltage	800VDC		
Nominal Battery Voltage	400V or 800V		
Output current	200A	400A	500A
Efficiency	> 97.5% at full load		
Power factor	≥ 0.97		
THDi	≤ 8%		
Switching frequency	>20kHz		
Audible noise	< 56 dBA @ 5m		
Cooling	Air (forced)		
IP Rating	IP55 for enclosed electronics		
Dimensions (H x W x D)	1 cabinet: 580 (w) x 520 (d) x 1000 (h)		
Compliance (Selection)	BSEN 61000, 50178, 50160. IEC 62477. ISO 15188		



TPS HEADQUARTERS

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