

Enviro EV Vibrance

Commercial DC Ultra - Rapid Charging Station

Introducing the Vibrance Enterprise DC charger - a robust solution that combines power, scalability, and cutting-edge technology. Whether you're charging electric vehicles at a commercial facility, fleet depot, or public charging station, the Vibrance charger delivers exceptional performance and convenience.

CONFIGURATION

- Enterprise DC charger with 2 CCS charging points (5m cable), with 120 kW based on 4 x 30 kW power modules
- User-friendly 10 Inch-LCD-Touch-Screen.



KEY FEATURES

- **Dual CCS2 Charging Points:** With two CCS2 charging points, the Vibrance charger enables simultaneous charging for multiple vehicles.
- **Scalable Power Range:** Starting at 60kW, the Vibrance charger can scale up to 240kW. Alternatively, start with 80kW and scale up to 320kW.
- **Patented Programmable Power Controller (PPC):** Our unique PPC technology ensures hassle-free installation and high reliability- the Vibrance charger is designed for simplicity.
- **Certified Precision:** PTB meter
- **Seamless Connectivity:** Stay connected with Ethernet, 4G, and OCPP 1.6 OCA certification. Monitor charging sessions, track usage, and manage your network effortlessly.
- **Over-the-Air Updates:** Progress never stops. The Vibrance charger receives over-the-air updates, ensuring it stays up-to-date with the latest features and improvements.
- **10-Inch Touch Display:** Accessible and intuitive, the 10-inch touch display provides a user-friendly interface. Monitor charging status, adjust settings, and view real-time data with ease.



Power Specification

Input Voltage Rating	400 VAC ±10%, 50/60 Hz
Power Wiring	3P+N+PE
DC Voltage Output	150~1000V DC
Charging Connector	CCS2+CCS2
Charging Cable Length	5 Meters/7.5 Meters Optional
DC Power Output Rating	60kW/80kW
Constant Power Range	300~1000V DC
The Maximum Output Current	300A
PF (Power Factor)	>0.98 (Load≥50%)
THD-I	≤5% (Rating Voltage Input, Load≥50%)
Peak Efficiency	≥96%
Voltage Stabilised Accuracy	≤±0.5%
Current Stabilised Accuracy	≤±1%
Output Voltage Error	±0.5%
Output Current Error	≤±1% (When Output Current≥30A); ≤±0.3A (When Output Current<30A)
Ripple Factor	≤±0.5% (RMS)
Electric Energy Measurement Method	Measuring DC Output Electric Energy
Connector Mechanical Operating Life	≤10000 Times, Without Load

User Interface & Control

Charging Control	RFID; QR Code (Optional); Credit Card (Optional)
Human-Machine Interface	10-Inch High-Contrast Touch Screen
Indicators	High Brightness Multi-Color LED Lights
Network Interface	Ethernet (RJ-45)/4G
Protocol (EVSE & Backend)	OCPP 1.6J; Security Level 3; Upgradable to OCPP 2.0.1 in 2025
Protocol (EVSE & EV)	DIN70121, ISO15118

Environment

Storage Temperature	-40°C to 75°C
Work Temperature	-30°C to 50°C, Derating Output in 55°C
Touch Screen Operating Temperature	-20°C to 70°C
Work Humidity	Up to 95% Non-Condensing
Work Altitude	≤2000m
Cooling Method	Forced Air Cooling

Protection

Protection	Over Voltage Protection; Under Voltage Protection; Over Current Protection; Over Power Protection; Temperature Protection; Surge Protection Device; Short Circuit Protection; Inter Modulation Distortion
Protection Ratings	IP54

Mechanical

Dimension (H*W*D, mm)	1040*580*2200
Net Weight	≤500kg
Enclosure Material	Metal
Colour	RAL 7032(Grey), White labelling optional

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Programmable Power Controller

DC Chargers Adopted a Modularised Design Approach

- PPC (Programmable Power Controller)
- Integrated Smart HMI
- Scalable Power Modules
- Cabinet
- Cable & Connector
- Payment Terminal

PPC Makes DC Chargers Simple and Powerful

Traditional DC Chargers Consist of

- 600 PCS of Terminal Blocks+ 300 PCS Wires
- DC Watt-Hour Meter
- Voltage Detection Transmitter
- Insulation Detector
- Charging Pile Controller
- 24V/12V AC/DC Switching Power Supply (for GB/T Standard)
- AC/DC Power Supply Module
- MCB, Relay, SPD
- MCCB, AC Contactor
- DC Vacuum Contactor

