



TECHNICAL DATA SHEET

COMMERCIAL CHARGING STATION

Model TC

Sustainable and certified charging solutions, designed to withstand Quebec's climate and optimize facility management.

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TECHNICAL DATA SHEET CHARGING STATION – COMMERCIAL

Product Identification

Manufacturer: TechnoVE Inc.

Address: 7804, rue Maurice-Guillemette, Bécancour (QC) G9H 4Y7, Canada

Commercial Model: TC Station (commercial)

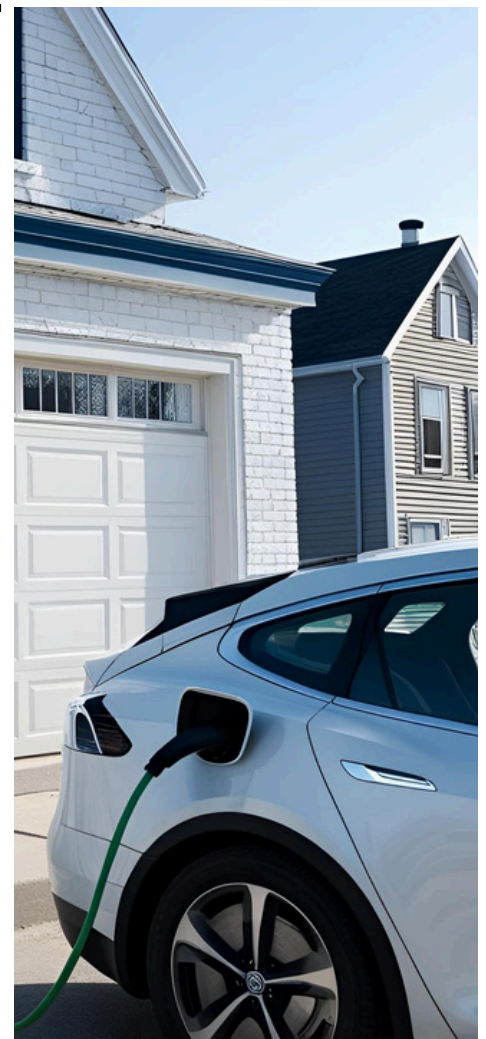
Product Type: AC charging station for electric vehicles

Connector Standard: SAE J1772 and NACS (North American Charging Standard)

General Description

The TC commercial station by TechnoVE is a Level 2, 240 V charging station designed for corporate parking lots, condominiums, municipalities, and fleets. It is based on the certified BR240V-x48 / BR240V-x32 hardware platform, and offers:

- 48A power output
- Indoor or outdoor use, adapted to Canada's climate (-40 °C to +40 °C)
- Smart management via OCPP 1.6j, web portal and TechnoVE mobile app
- Dynamic power sharing
- 3-year warranty
- Lifetime warranty on the aluminum enclosure



Charging Station

Model TC (commercial)



Typical Applications

- Apartment buildings and condominiums
- Offices, industrial parks, retail, hotels
- Corporate fleets and service vehicles
- Public or private parking with user management and billing

ELECTRICAL SPECIFICATIONS

Parameter	Value / Specification
Input Voltage	208–240 VAC, 60 Hz
Connection Type	Hardwired connection
Output Current	12 A to 48 A (adjustable depending on installation)
Maximum Power	11.5 kW (240 V) / 10.0 kW (208 V)
Charging Protocols	SAE J1772 / NACS - SAE J3400
Cable Length	7.5 m (25 ft) – EVE / EV AWG #10 or #8 type
Amperage Configuration	Programmable via mobile app or DIP switch
Power Sharing	Up to 4 chargers on a single circuit (40A–60A)
Charging Stability	Automatic load adjustment based on supply voltage (208–240 VAC)
Operating Range	Optimized for indoor and outdoor environments
Communication	Wi-Fi 2.4 GHz (IEEE 802.11 b/g/n)
Wiring Compatibility	Compatible with copper conductors, 6 AWG gauge



Mechanical & Environmental Characteristics

Parameter	Specification
Enclosure Material	Industrial-grade aluminum, thickness \pm 3.8 mm
Enclosure Dimensions	H: 230 mm \times W: 150 mm \times D: 75 mm (9.06 \times 5.91 \times 2.95 in)
Installation Type	Wall-mounted or pedestal-mounted
Protection Rating	IP65
Impact Resistance	IK08
Enclosure Sealing	NEMA 3R / NEMA 4X (indoor & outdoor) compliant with CSA/UL humidity testing
Operating Temperature Range	-40 °C to +40 °C
Available Connector	SAE J1772 / NACS - SAE J3400
Cable Length	7.5 m (25 ft) – EVE type EV cable / AWG #8 or #10
Cable Management	Wall-mounted holder or pedestal support (optional)
Weight	Depending on configuration (approx. 4–6 kg / 8.8–13.2 lb)



SAFETY & PROTECTIONS

Protection	Description
5 mA CCID	Integrated ground fault protection compliant with UL 2231
Ground Fault Monitoring	RCMB121 monitoring module
Overtoltage / Undervoltage Protection	Compliant with EVSE CSA-C22.2 No. 280 / UL 2594 standards
Relay / Contactor Protection	Automatic diagnostic system
Thermal Management	Internal temperature monitoring
User Safety	Low-voltage circuit integrated into the connector

User Interface & Visual Signaling

The commercial S station is equipped with a status LED that clearly indicates the different operating states (ready, charging, error, power sharing).

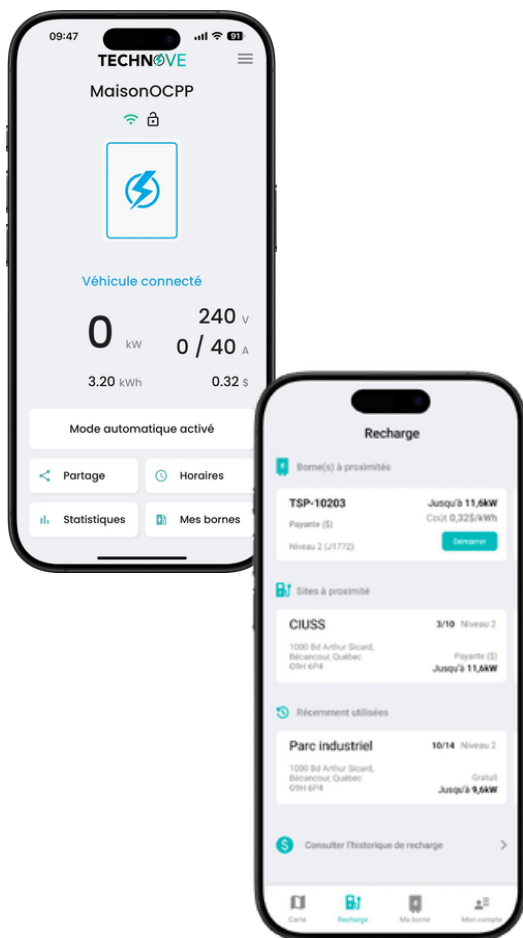
Status	Color
Initialization / Error	Red
Ready to Charge	Green (not used in load-sharing mode)
Vehicle Connected	Blue
Charging in Progress	Flashing Blue
Load Sharing Mode	Yellow (replaces green when load sharing is active)

STANDARDS & CERTIFICATIONS

Standard / Certification	Details
CSA C22.2 No. 280 / UL 2594	EV charging equipment
CSA C22.2 No. 281.1 / UL 2231-1	User protection
CSA C22.2 No. 281.2 / UL 2231-2	Additional safety testing
FCC Part 15B Class A	Electromagnetic compatibility
ICES-003 Class A	Digital devices
LabTest Listing (official report)	BR240V-x48 / x32 platform

The inspection, testing and certification processes associated with the product comply with ISO 17020, ISO 17025, ISO 17065 (ISO/IEC 17067) standards, while the RFID system complies with ISO 14443A.

Advanced Features



The TC commercial station integrates a complete suite of smart features for optimal charging infrastructure management, for both small installations and large-scale or multi-service sites. With its wireless connectivity, open protocol and TechnoVE digital ecosystem, it offers a modern, flexible and fully centralized charging experience.

Compatible with OCPP 1.6j, it can be integrated into an existing charging network or connected to the TechnoVE portal for real-time monitoring, remote configuration and access to detailed statistics.

The station can also dynamically adjust its amperage based on available electrical capacity, and enables power sharing between multiple units installed on the same circuit, ensuring optimal power distribution without grid overload.

Wi-Fi connectivity allows the station to be integrated into a management network and configured remotely, including communication with the portal or application. This connectivity also facilitates technical adjustments, diagnostics and access to advanced settings by the manager or technical support, when required.

A 4G/LTE cellular connectivity option is available through a separately installed gateway, depending on the chosen configuration.

The TechnoVE digital ecosystem also includes a mobile application for users. It allows them to locate compatible stations, view their specifications, start a charging session, track progress and review their charging history and associated payments. Users thus have access to a simple, fast and intuitive experience, both at home and in commercial environments.



For managers, the TechnoVE client portal provides a professional interface to view stations in real time, manage multiple sites, create user groups, manage access, adjust operating parameters and view detailed statistics.

The portal also facilitates billing, energy management and report generation, providing a comprehensive tool for operational and commercial needs.

Thanks to this combination of hardware and software features, the TC commercial station is a flexible, high-performance and scalable solution, meeting the modern requirements of commercial and institutional environments.

