



# TECHNICAL DATA SHEET

## RESIDENTIAL CHARGER

TS

Reliable and certified residential charging solutions, designed to withstand the harsh Quebec climate and deliver a simple, safe, and high-performance home charging experience.

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# TECHNICAL DATA SHEET

## CHARGING STATION – Residential

### Product Identification

Manufacturer: TechnoVE Inc.

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

Residential model: TS Charger

Product type: AC charging station for electric vehicles

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

## General Description

The TechnoVE TS residential charger is a Level 2, 240 V charging station designed for private residences. Based on the certified BR240V-x48 / BR240V-x32 platform, it provides simple, fast, and safe home charging, even in Quebec's most demanding weather conditions.

- Power output of 40A or 48A
- Indoor or outdoor use, adapted to Canada's climate (-40 °C to +40 °C)
- Smart management via the TechnoVE mobile app through OCPP communication
- Dynamic power sharing
- 5-year warranty
- Lifetime warranty on the aluminum enclosure



# Charging Station

## Model TS



## Typical Applications

- Single-family homes and private residences
- Multiplexes and small residential buildings
- Condominiums with individual parking spaces
- Electric vehicle owners seeking simple and reliable home charging

## ELECTRICAL SPECIFICATIONS

Parameter	Value / Specification
Input Voltage	208–240 VAC, 60 Hz
Connection Type	Hardwired connection or NEMA 14-50 / 6-50 plug
Output Current	40A / 48A
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 TS charger is equipped with a status LED that clearly indicates the different operating states (ready, charging, error, load sharing).

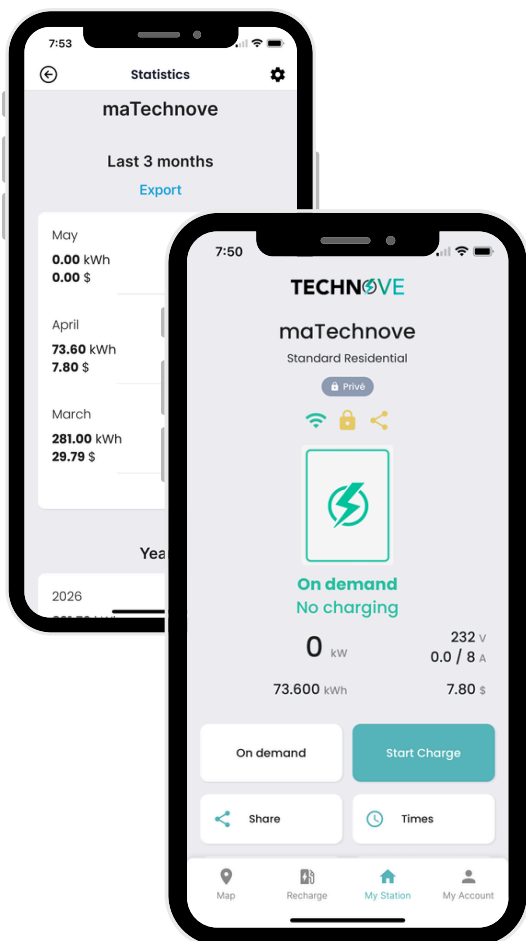
Status	Color
Initialization / Error	Red
Ready to Charge	Green (not used in load-sharing mode)
Vehicle Connected	Blue
Charging in Progress	Flashing Blue
Load Sharing Mode	Yellow (replaces green when load sharing is active)

## 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 TechnoVE residential TS charger offers a complete, intelligent charging experience perfectly suited to home life.

Thanks to its intuitive and user-friendly mobile application, the user has full control over their charger and can easily manage charging based on their needs, habits and available electrical capacity.

It thus optimizes energy usage while ensuring simplicity, comfort and peace of mind on a daily basis.

Through the TechnoVE application, it is possible to precisely adjust the charger amperage according to the electrical installation, view detailed charging statistics including consumption and history, and schedule charging times to take advantage of favorable rate periods.

The application also allows configuring power sharing between multiple chargers installed on the same circuit, ensuring intelligent energy distribution and preventing any overload of the residential electrical network.