



## **WIFI-APP USER'S GUIDE**

### **EV CHARGING STATION 240V**

cLCus





## 2 TABLE OF CONTENTS

WIFI-APP USER’S GUIDE .....	1
1 LIST OF CHANGES .....	2
2 TABLE OF CONTENTS.....	3
3 OBJECTIVE .....	5
4 UPDATES.....	5
4.1 To come.....	5
4.2 Version 1.4 .....	5
4.3 Version 1.3.2 .....	5
4.4 Version 1.2 .....	5
5 FEATURES .....	6
5.2 Requirements.....	6
5.2.1 WIFI network opened .....	6
5.2.2 Port 5353, MDNS protocol opened .....	6
5.2.3 NTP protocol compliant.....	6
5.3 Data visualization.....	6
5.2 Stations management.....	7
5.3 Statistics .....	8
5.4 Dynamic load sharing.....	8
5.5 Local or stand-alone network mode .....	8
5.5.1 Local network mode .....	8
5.5.2 Stand-alone network mode .....	9
6 INSTALLATION ET CONFIGURATION.....	10
6.1 Installer l’application.....	10
6.2 Local or stand-alone network mode .....	10
6.2.1 Local network .....	10
6.2.2 Stand-alone network mode .....	10
6.3 Launch the application « TechnoVE ».....	10
6.3.1 Giving a name to your terminal .....	11
6.3.2 Memorize the PIN and Confirm .....	11
6.3.3 Connect to the station network .....	11
7 USE.....	12
7.1 Main page.....	12
7.1.1 Horizontal scrolling .....	12
7.1.2 Display of charging data and charging cost.....	12
7.1.3 Automatic or on demand mode.....	12
7.1.4 Activate high tariff periods, if defined.....	12
7.1.5 Stop or start the charge .....	13
7.2 "Bornes" button.....	13
7.2.1 Station name.....	13
7.2.2 Maximum current.....	13
7.2.3 Wifi .....	13

# TECHNOVE

7.2.4	Update .....	13
7.2.5	PIN .....	14
7.2.6	Date .....	14
7.2.7	Charging times and high tariff periods .....	14
7.2.8	Charging schedule and activation periods .....	14
7.2.9	Factory reset.....	14
7.3	« Stats » button.....	14
7.4	« Batterie » button.....	14
7.5	« Partage » button.....	15
8	TROUBLESHOOTING AND ERROR MESSAGES.....	16
8.2	Automatic configuration does not work.....	16
8.3	You see the "technove_stations" network but it is not possible to connect to it	16
8.4	If you try to connect the station to your local network, and you do not see your network in the list.....	16
8.5	Connection shows red and sometimes yellow, so your network signal is not strong enough at the station .....	16



### **3 OBJECTIVE**

This guide provides all the information for configuring and using interfaces and applications via WIFI.

### **4 UPDATES**

#### ***4.1 To come***

Multi-user management.  
INTERNET access.

#### ***4.2 Version 1.4***

Dynamic load sharing function.  
Manual configuration mode.

#### ***4.3 Version 1.3.2***

Bug corrections and optimization.

#### ***4.4 Version 1.2***

New simplified configuration procedure.  
Monthly and annual statistics.  
Costs of your load and real-time cost.

# TECHNOVE

## 5 FEATURES

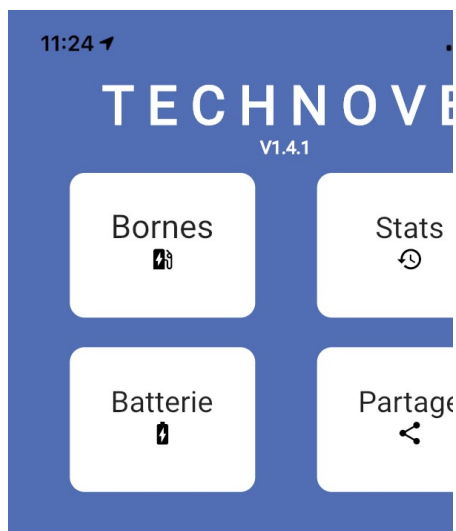
### 5.2 Requirements

5.2.1 WIFI network opened

5.2.2 Port 5353, MDNS protocol opened

5.2.3 NTP protocol compliant

### 5.3 Data visualization



**869Hallee**

Véhicule en charge

119 V  
11 / 12 A **1.3** kW  
25.6 kWh **2.71** \$

SUR DEMANDE



HAUT TAUX



APPLICATION : TECHNOVE  
V1.41

- Station's name : **869Hallee**
- Charging status : **Véhicule en charge**
- AC Voltage : 119V
- Charging current / target current :  
**11 / 12 A**
- Power delivered : **1.3 kW**
- Energy consumption : **25.6 kWh**
- Cost : **2.71 \$** (setup in « Stats »)
- Automatic mode or On-demand :  
**SUR DEMANDE**
- High price : **désactivé**
- Command button : **Arrêter la charge**
- Stations scroll right / left

## 5.2 Stations management



- List of configured terminals
- "+" button to add other terminals
- ">" button to go to details
- Current symbol, green, red or yellow for connection status



- "Trash" button to delete the configuration
- Name: 869Hallee
- Maximum current: 12.0 or to be configured in increments of 4
- Wifi: "network name" or Local, to configure
- Update: Available or up to date
- PIN: Identification number
- Date
- Charging schedule to be defined
- Automatic mode: on or off
- Activation period: depending or not (period of time for activation)
- High tariff period: on or off (non-operating time period)

## 5.3 Statistics

Month	Consumption (kWh)	Cost (\$)	Number of sessions
Mars	52.40 kWh	5.55 \$	4 sessions
Février	1634.46 kWh	173.25 \$	23 sessions
Janvier	1814.26 kWh	192.31 \$	34 sessions
Années			
2021	17172.18 kWh		100 sessions

Date	Consumption (kWh)	Cost (\$)	Duration
6 mars à 16:43	25.60 kWh	2.71 \$	Durée: en cours
6 mars à 12:53	4.10 kWh	0.43 \$	Durée: 2h 58
6 mars à 08:11	4.10 kWh	0.43 \$	Durée: 2h 50

- "Export report" button
  - Selected station
  - Last 3 months
    - Consumption in kWh
    - Cost
    - Number of sessions
  - Last 2 years
- 
- Month details
  - For each session
    - Date and time
    - Consumption in kWh
    - Cost
    - Duration

## 5.4 Dynamic load sharing

Dynamic load sharing function allows you to control the maximum power of a set of TechnoVE charging stations.

Example: You have two stations installed and you do not want to overload your electrical installation at all times or during winter. Your maximum power is 32A in total and you have two vehicles that each consumes 30A. If you permanently reduce the power of your stations to 16A, you will have a recharge time almost doubled. With dynamic load sharing, you use maximum power at all times and thus reduce recharging time.

## 5.5 Local or stand-alone network mode

### 5.5.1 Local network mode

In this mode, the charging station will be connected to your local WIFI network. Thus, when your device (phone, tablet) is connected to your network, you have access to the terminal with the technove application.





### **5.5.2 Stand-alone network mode**

Another interesting possibility is the fact that the terminal can be used in stand-alone mode. In parking lots far from the building or in sub-buildings, networks are often non-existent. You can add the connection to the terminal's wifi network. And if there is no known network nearby, your device will automatically connect to the charging station when you approach it. The application is functional as soon as the connection is established.



## **6 INSTALLATION ET CONFIGURATION**

### ***6.1 Installer l'application***

- Android : Accéder à Google Play Store et effectuer l'installation de l'application « TechnoVE ».
- IOS : Accéder à AppStore et effectuer l'installation de l'application « TechnoVE ».

### ***6.2 Local or stand-alone network mode***

#### **6.2.1 Local network**

In this configuration, the terminal will be connected to your local WIFI network. Thus, when your device (phone, tablet) is connected to your network, you have access to the terminal with the technove application.

Note 1: Your local network must be accessible where your charging station is located. Use your phone by placing it exactly where your terminal is located and check if you have a network. Otherwise, you can install a local network WIFI booster inexpensively.

Note 2: Your network must not be in AP Isolation (or Client Isolation) mode. You must disable this option if your network has this configuration. This is normally used for guest networks.

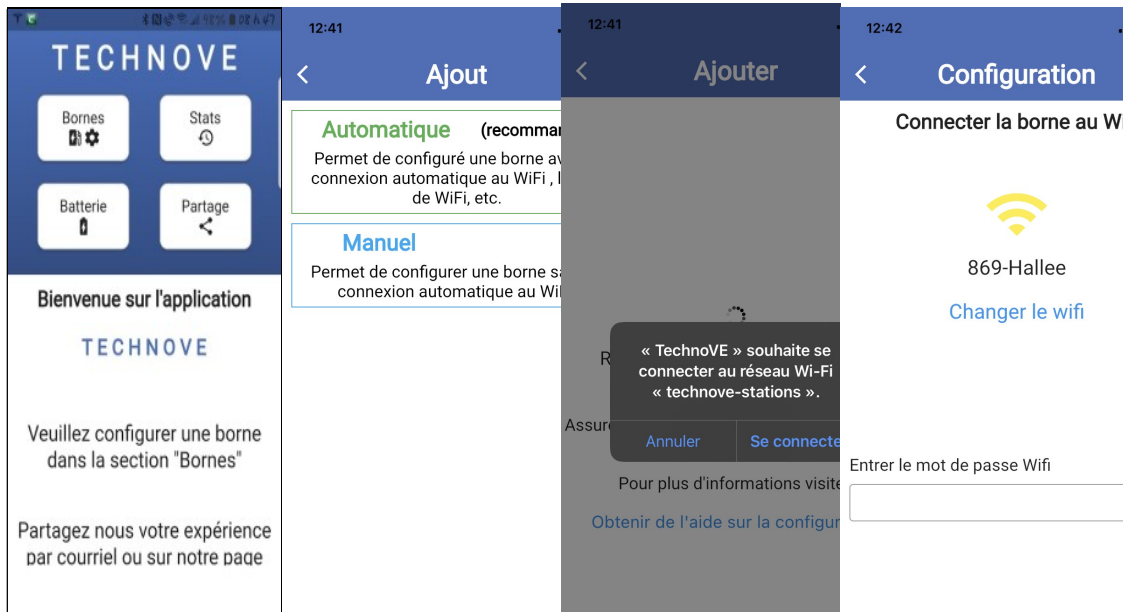
#### **6.2.2 Stand-alone network mode**

In this configuration, the charging station is not connected to your network and you can access it directly by logging in first.

This configuration is possible in places where no network is accessible. Once your network connection with the terminal is established, your device will automatically connect to the terminal when you approach it. The application is functional as soon as the connection is established.

### ***6.3 Launch the application « TechnoVE »***

# TECHNOVE



- Go to the “Terminals” section and select “+”.
- Automatic configuration mode: This mode is recommended.
- Manual configuration mode: Beforehand, you must connect your device directly to the network of the “technove\_stations” terminal. The password is "abcde12345".
- Follow the instructions.

### 6.3.1 Giving a name to your terminal

This name will appear in the list of stations but also as a network name.

### 6.3.2 Memorize the PIN and Confirm

Before confirming, you must memorize the PIN and write it down. This code will allow you to give access to other users, but also you will need it when installing the application in certain situations.

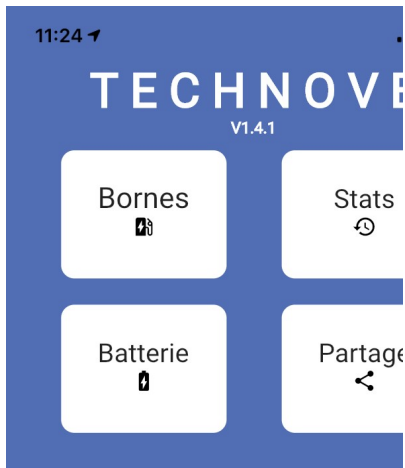
### 6.3.3 Connect to the station network

If you do not have any network available nearby, you can choose to connect to the terminal's network. Once configured, the network name will be "technove\_stationname". The password is "abcde12345". Your PIN is important and unique to you.

# TECHNOVE

## 7 USE

### 7.1 Main page



869Hallee

Véhicule en charge

119 V  
11 / 12 A

**1.3** kW

25.6 kWh      2.71 \$

SUR DEMANDE

HAUT TA



#### 7.1.1 Horizontal scrolling

You can switch from one terminal to another by sliding the display window from right to left or vice versa.

#### 7.1.2 Display of charging data and charging cost.

You can configure the kWh price in the STATS parameter section window.

#### 7.1.3 Automatic or on demand mode

Specify the "automatic" or "on demand" mode by clicking on the round button for this purpose. You can also make this selection in the "Terminals" window.

#### 7.1.4 Activate high tariff periods, if defined

Specify the "high tariff" mode if you have defined high tariff periods. The terminal will be deactivated during these periods of time.



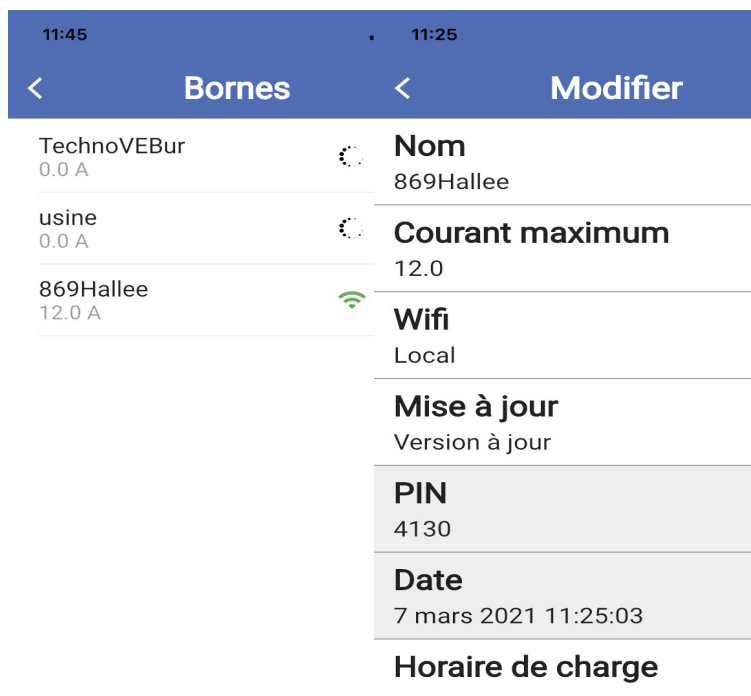
### 7.1.5 Stop or start the charge

The button at the bottom of the window allows you to control the load if the "on demand" mode is activated.

## 7.2 "Bornes" button

### 7.2.1 Station name

The name of the terminal is displayed there. This value is not editable. If you wish to modify it you must carry out a reset of the terminal.



### 7.2.2 Maximum current

By selecting this value, you can specify the maximum charge current. Please note that the current cannot be greater than the capacity specified at installation.

### 7.2.3 Wifi

It displays of the configured network name. Otherwise, the word LOCAL is displayed for local to the station. You can configure the Wifi network with selecting this value.

### 7.2.4 Update

An update is available or not.



### **7.2.5 PIN**

The identification number of the station is displayed. This value cannot be changed.

### **7.2.6 Date**

The current date and time are displayed.

### **7.2.7 Charging times and high tariff periods**

This option allows you to define periods of time in a week for which recharges are prohibited. For example, you would prefer not to charge during specific times to avoid overloading your power supply, or for your utility company to charge extra charges during certain times. To activate this option, you must define these periods and activate the option.

### **7.2.8 Charging schedule and activation periods**

This option allows you to define time periods in a week. During these periods, the charging station will be activated and will allow charging. This option must be activated in addition to automatic mode.

### **7.2.9 Factory reset**

If you need to reset the terminal configuration, you have this option at the end of the list of terminal characteristics, under "Charging schedule".

## **7.3 « Stats » button**

In this window, monthly and annual statistics are displayed. And you can export this data for a year by any method you want.

You can see the details of the current month by selecting the month.

## **7.4 « Batterie » button**

You can activate a battery protection mode. In this mode, you must specify the threshold of the charge current in percent. At this threshold, the terminal will stop charging. For example, 80% capacity equals  $0.8 \times 32 = 26$  Amps. For example, if you charge at 30 Amps, the charge will stop at 26 Amps, when the current declines towards the end of the charge.

Check if the battery charge percentage matches your request and adjust the application percentage as needed.

Improvements will be made to this option in future updates.



### **7.5 « Partage » button**

Dynamic load sharing allows you to control the maximum power of a set of TechnoVE charging stations.

Example: You have two terminals installed and you do not want to overload your electrical installation at all times or during winter. Your maximum power would be 32A in total and you have two vehicles that each consume 30A. If you continuously reduce the power of your stations to 16A, you will have a recharge time almost doubled. With dynamic load sharing, you use maximum power at all times and thus reduce recharging time.

- The stations must be configured and visible.
- Select the PARTGAGE button and activate 50% sharing. The percentage is adjustable and you can adjust it according to the priority of the recharge you want.
- The LED indicator on the terminal turns "yellow" for 2021 models.

Once the sharing has been transmitted to the stations, you can connect your vehicles.



## 8 TROUBLESHOOTING AND ERROR MESSAGES

### ***8.2 Automatic configuration does not work***

If the application is not able to see the station, then

- Approach the terminal and resume the process
- Check if the “technove\_stations” wifi network is present, if so connect with the password “abcde12345”. Then close the application and resume configuration with the application in manual mode.

### ***8.3 You see the "technove\_stations" network but it is not possible to connect to it***

- Disconnect the terminal or close the circuit breaker of the terminal, then reconnect.
- Try again. If none, call the support service.

### ***8.4 If you try to connect the station to your local network, and you do not see your network in the list***

- Perform a factory reset and start the configuration again.

### ***8.5 Connection shows red and sometimes yellow, so your network signal is not strong enough at the station***

- This sometimes happens when the terminal is outside. Simply add a WiFi signal repeater indoors as close as possible.