



TCHARGE® UAC 50C & UAC 80C AC Charger

UI System (LCD Touch Screen) User Guide



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TUCHONG will not be held liable for any direct, special, incidental, or indirect damage or any economic consequential damages (including the loss of profits).

Important

Before operating or maintaining this unit, please read this manual carefully and pay extra attention to the safety warnings and precautions.

For Service and Support:

Web: <http://www.blueview-usa.com/>

Tel: +1 (317) 772-1526

Email: info@blueviewelectricity.com

Safety Information

For your own safety and the safety of others as well as to prevent damage to the device and vehicles upon which the device is used, it is important that the safety instructions presented throughout this manual be read and understood by all persons operating or coming into contact with the device.

Safety Instructions

The safety messages herein cover situations BLUEVIEW is aware of. BLUEVIEW cannot know, evaluate, or advise you as to all the possible hazards. You must be certain that any condition or service procedure encountered does not jeopardize anyone's personal safety.



SAFETY WARNINGS

- Read all the instructions before you use this device.
- Do not install or use the device near materials, chemicals, or vapors that are flammable, explosive, harsh, or combustible.
- Turn off the power at the circuit breaker before installing or cleaning the device.
- Children around this device should be supervised when the device is in use.
- This device must be grounded through a permanent wiring system or an equipment-grounding conductor.
- Use the device only within the specified operating parameters.
- Do not use the device if it is defective, appears cracked, frayed, broken or otherwise damaged, or fails to operate.
- Do not use the device if the charging cable or charging connector is frayed, broken, or otherwise damaged, or if it fails to operate.
- Do not attempt to disassemble, repair, tamper with or modify the device.
- Handle the device with care during transportation. In order to prevent damage to it and to any of its components, do not subject it to strong force or impacts, pulls, twists, tangles, or drags. Do not step on the device.
- Do not insert fingers or foreign objects into any part of the device.





CAUTION

- Do not use private power generators as a power source for charging electric vehicles (EVs) with this device.
- Do not operate the device in temperatures outside its working temperature range.
- Incorrect installation, operation, or testing of the device could potentially damage the battery or other components of an EV as well as the charger device itself.

Find Other Tools for Your TCHARGE® AC EV Charger!

Scan the following QR codes below to access more useful tools for TCHARGE® AC chargers:

Type	Instructions	
Installation Manual	For the latest version of TCHARGE® UAC 50 / UAC 80 series AC charger installation manual , please scan the QR code to the right to open or download the document.	
Home Charge APP User Guide	For the latest version of TCHARGE® UAC 50H home charging mobile APP using guide, please scan the QR code to the right to download the document.	

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1. Using This Manual

1.1 Purpose

The purpose of this manual is to offer guidance regarding the use of **LCD touch screen system** of **TCHARGE® UAC 50C** and **UAC 80C** commercial AC chargers.

1.2 Applicable Products

This document applies to **TCHARGE® UAC 50C** and **TCHARGE® UAC 80C** AC chargers.

Caution: Injury, death, and/or property damage may occur if you use this equipment in a manner other than as described in this manual or other related documents.

1.3 Definition of Warning Symbols




Symbol	Meaning
	<p>WARNING signs indicate significant dangers.</p> <p>This sign indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury to the operator or to bystanders.</p> <p>Operations after the WARNING sign can only be performed once the indicated conditions are fully understood and met.</p>
	<p>CAUTION signs indicate potential risks.</p> <p>This sign indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to the operator or to bystanders.</p> <p>Operations following the CAUTION sign should only be performed once the indicated conditions are fully understood and met.</p>
	<p>HINT signs indicate tips or useful information.</p> <p>This sign marks tips and useful information worthy of notice.</p> <p>Contents following HINT signs will not contain information that warns of hazardous or harmful functions.</p>

Table 1.1 Definition of Related Warning Symbols

2. Charging Process

TCHARGE® UAC 50C and **UAC 80C** AC chargers are equipped with newly upgraded **TCHARGE®** charging management system and UI (user interface) system. These new systems allow **TCHARGE®** commercial AC EV chargers of the new generation to offer more fluid charging experiences to charging service operators and EV drivers.

Important Note



Since our UI system may be **frequently updated**, you may find designs and functions in your **TCHARGE®** charger's UI system different from descriptions in this guide. For a most updated version of this guide, please scan the QR code below:

Scan this QR code to download our latest commercial charger LCD screen using guide!



2.1 Home Screen

After the **TCHARGE® UAC 50C / UAC 80C** AC charger is correctly installed and connected to the AC input power, its UI system will display the **Home Screen** in standby status by default (while not connected to a vehicle), which is shown in **Figure 2.1** below.



Note

For guides on hardware installation of the **TCHARGE® UAC** series charger, please see the **TCHARGE® UAC 50 / UAC 80 Series Installation Manual** document packed together with the product.

- On top left of the **Home Screen**, you can find the **Turn Off Display** button (marked as **A** in **Figure 2.1**). Clicking on this button allows you to **temporarily turn off the screen display** of the charger to save energy. After turning off the display, you can **re-activate** the LCD screen at any time **by tapping anywhere** on the LCD screen. (The LED strip on top of the screen may suggest the charger's working status when the display is turned off)
- On top of the **Home Screen**, you can find the **Settings** button in the shape of a hexagonal nut (marked as **B** in **Figure 2.1**). Clicking on this button will take you to the **Admin Settings Menu** of the charger's UI system. See **Part 3** below for more details.

- To the side of the **Settings** button, you will see **connection icons** and **OCPP connection status icon** (collectively marked as **C** in **Figure 2.1**). These icons indicate the internet connection status and OCPP platform connection status of the charger.
 - When the **OCPP connection status icon** is crossed out, it means that the charger is not connected to the OCPP platform. Certain functions that require OCPP platform connectivity may not be applicable in this scenario.
 - **Please note that:** normally, not all connection icons depicted in **Figure 2.1** would appear at the same time. For most of the time, only **1 icon** – **Ethernet, Wi-Fi, or 4G** network – will be displayed, suggesting the type of internet connection that is used by the charger at that point.

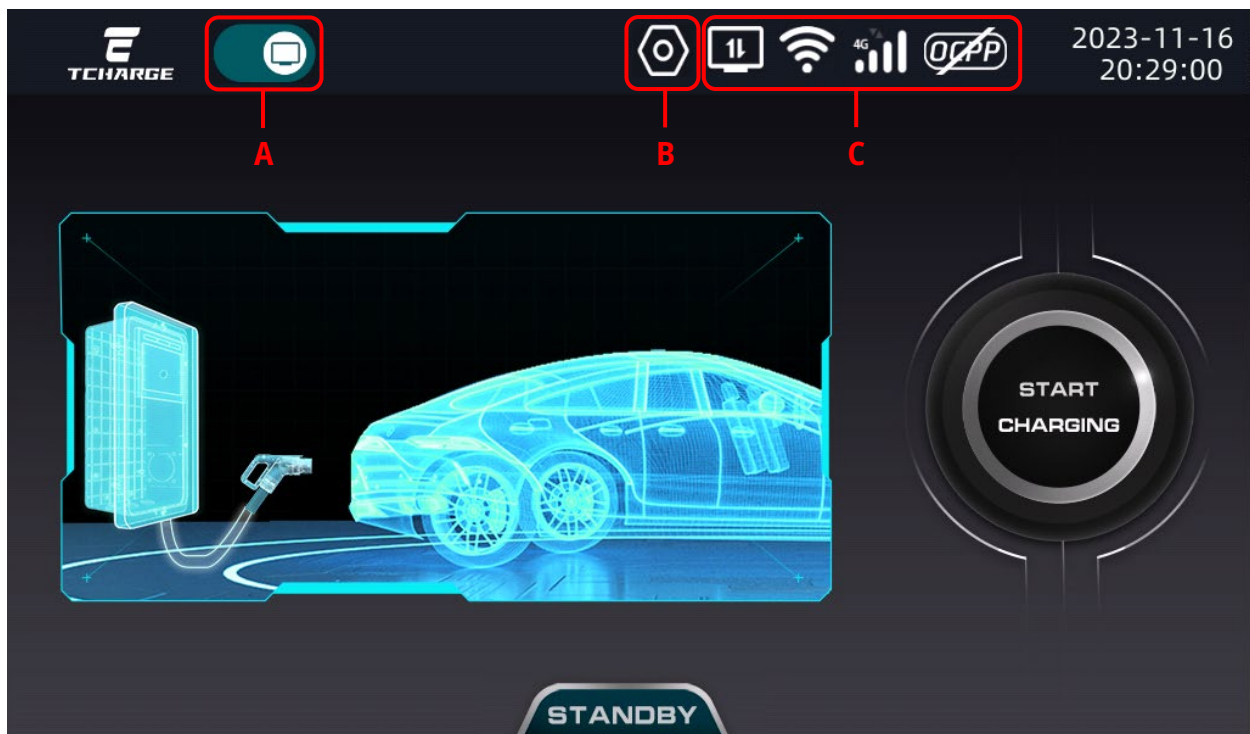


Figure 2.1 TCHARGE® UAC 50C / UAC 80C AC charger Standby Status Home Screen

Notice that the **Turn Off Display** button, the **Settings** button, **connection icons**, and **OCPP connection status icon** **will also present in multiple other screens described by this guide below**. They function the same on all the screens they present just like on the Home Screen. For that reason, this guide would not repeat these descriptions of all these buttons and icons every time.

2.2 Start Charging

When you connect the connector (charging port / charging gun) of **TCHARGE® UAC 50C / UAC 80C** AC charger to a vehicle you want to charge, the UI system will automatically take you to the **Charging Authorization** page (**Figure 2.2**). You may authorize for charging the vehicle when this page displays.

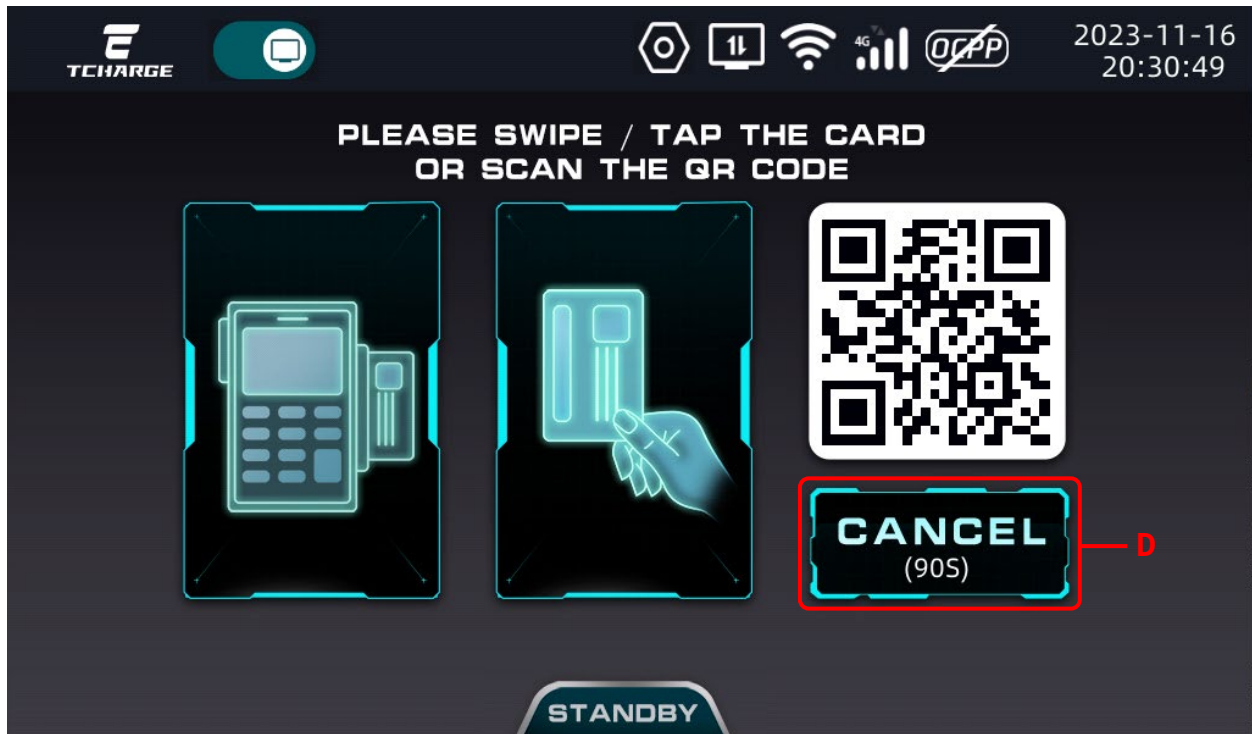


Figure 2.2 Charging Authorization Page

You **would not need to select** which type of authorization you would like to use on the **Charging Authorization** page. You can simply use any type of authorization that is available for the charger – RFID card, POS payment system, and/or **TCHARGE® commercial charger mobile APP**.

- In any case you want to return to the **Home Page**, you can click on “Cancel” button on **Charging Authorization** page (**D** in **Figure 2.2**). If you let the system stay idle for too long, the system may also return to the **Home Page** automatically.
- When a vehicle is connected to the charger, the **Home Page** of **TCHARGE® UAC 50C / UAC 80C** AC charger's UI system will display the image of a vehicle connected, as depicted in **Figure 2.3**. In this scenario, you could click on “Start Charging” button to the right (**E** in **Figure 2.3**) to return to **Charging Authorization** page.

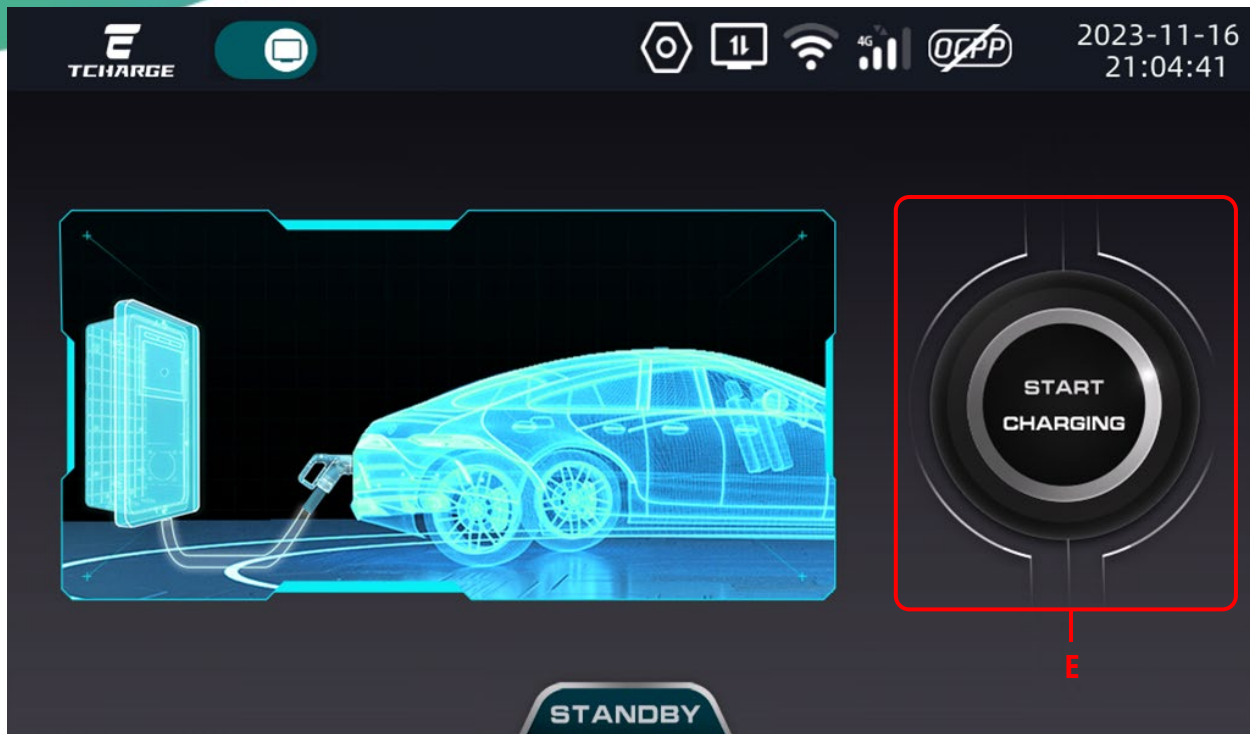


Figure 2.3 Connected Status Home Page

2.3 Charging Process and Finishing

Once charging is successfully authorized, the charger will automatically launch the charging process. A start-up indicating page (Figure 2.4) will display briefly before the charging process kicks off, with the UI system switching to **Charging in Progress** screen (Figure 2.5).

- On top of the **Charging in Progress** screen, real-time charging statistics including charging current, charging voltage, charging power rating (in kW), timelapse of the charging process, and total amount of electricity (in kWh) supplied to the vehicle will be shown (marked as F in Figure 2.5) and get updated from time to time.

If you want to stop charging when the charging process goes on, you can click on the **“Stop”** button on the **Charging in Progress** screen (marked as G in Figure 2.5). The charging process will also **stop automatically** when your **vehicle is fully charged** (charged to the upper limit as set on the vehicle).

When the charging process comes to a stop, a processing screen will first briefly appear (Figure 2.6). Then, the system will take you to the **Charging Finished** screen (Figure 2.7), showing the time length of the charging process and total amount of electricity received by the vehicle. Click on **“End”** button on the **Charging Finished** screen (marked as H in Figure 2.7) to end the charging process.

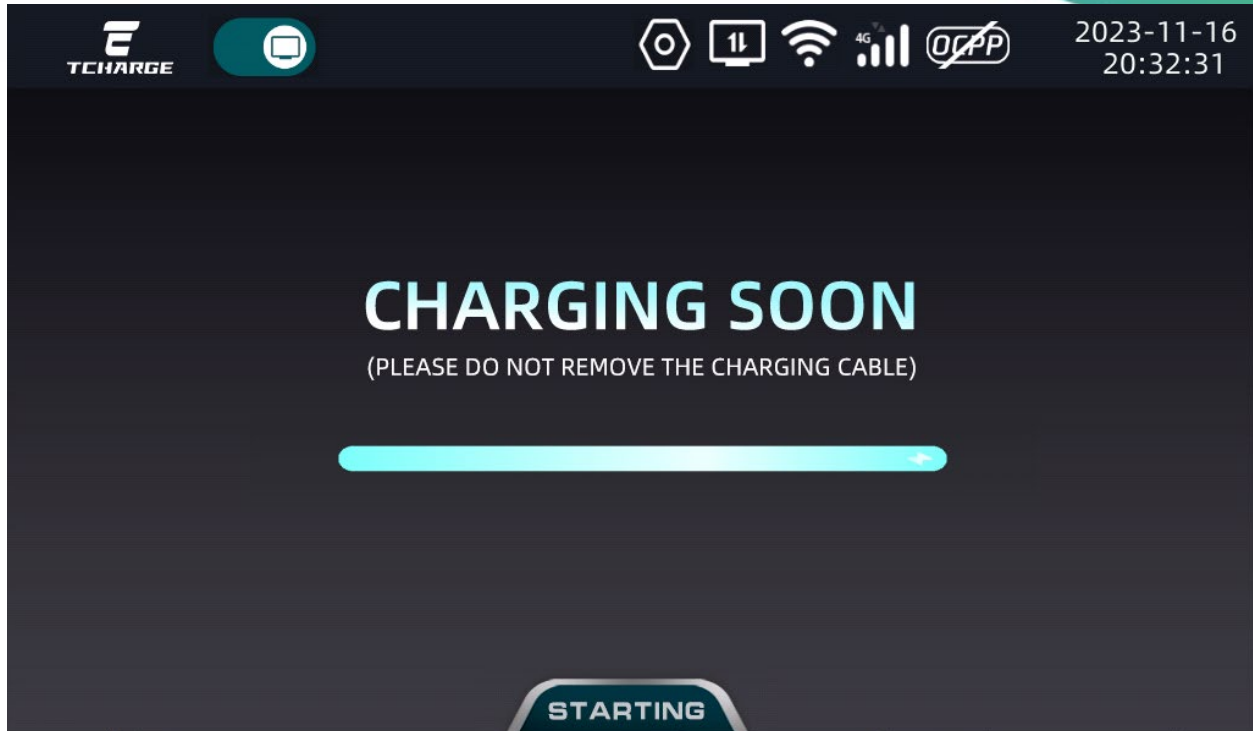


Figure 2.4 Start Charging Page

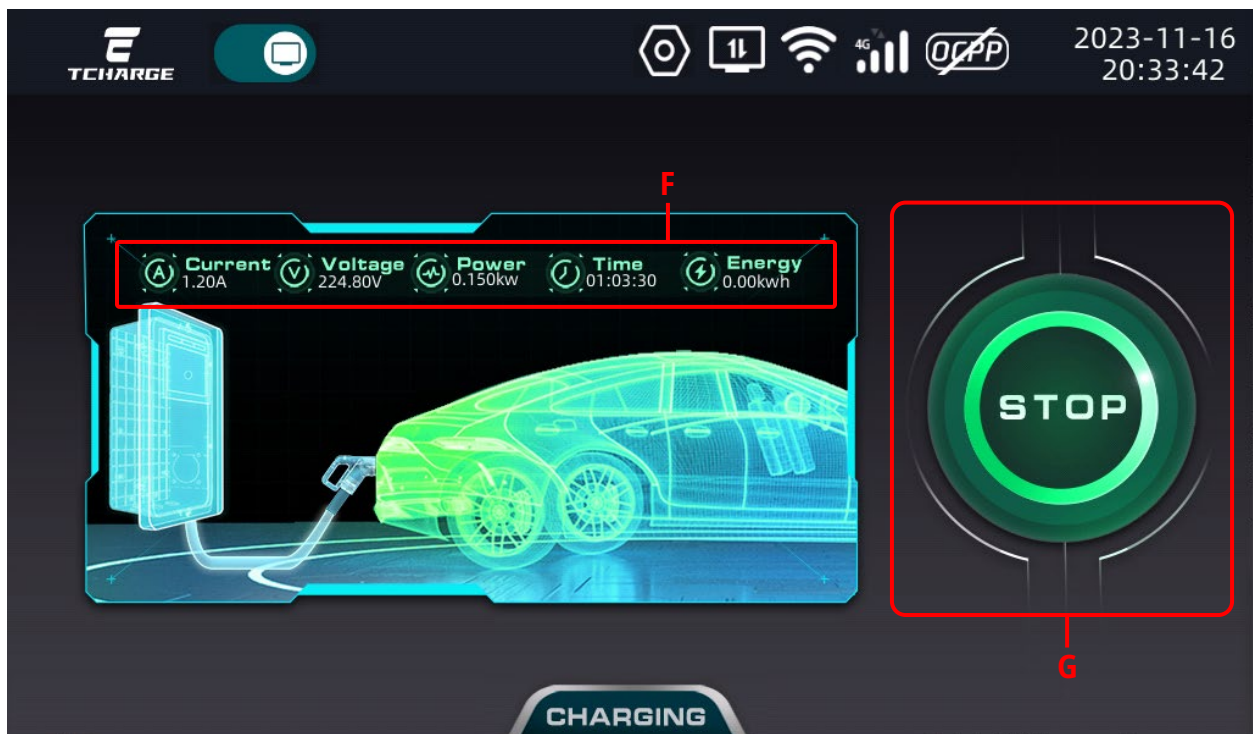


Figure 2.5 Charging in Progress Page

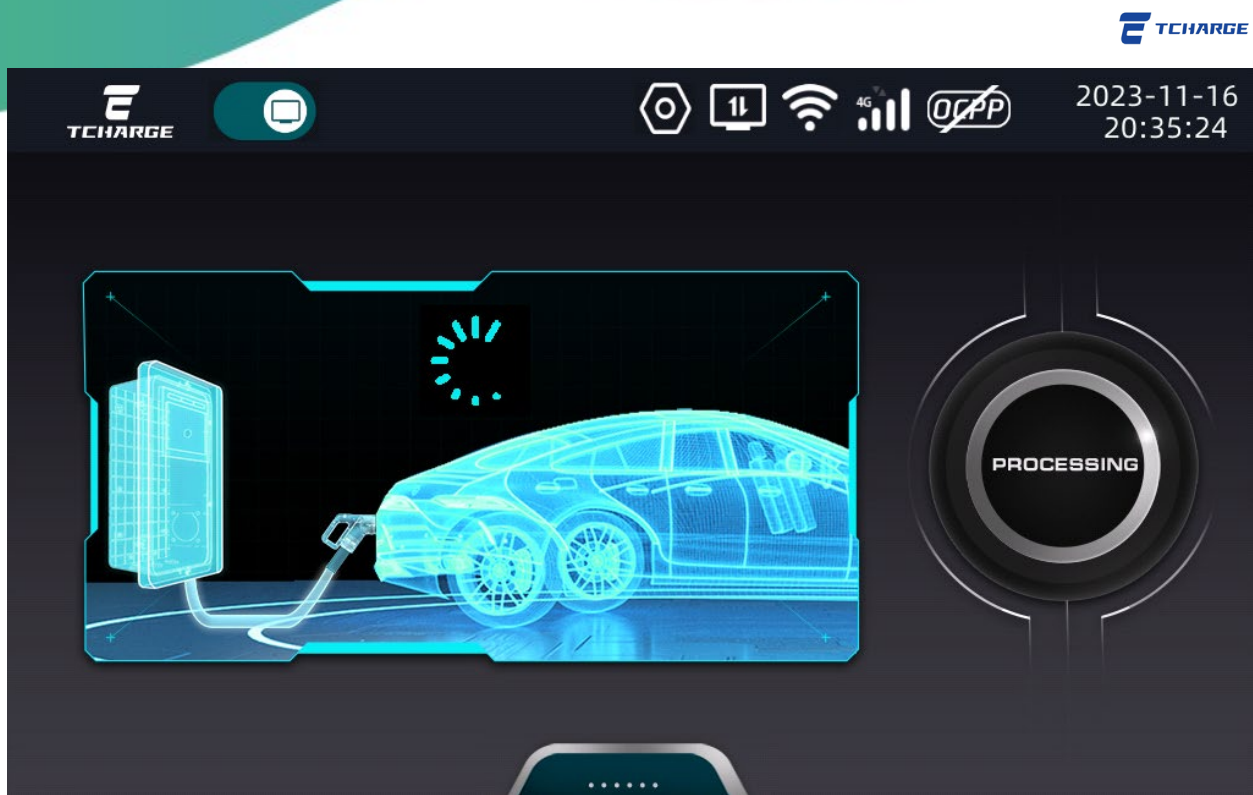


Figure 2.6 Finish Processing Screen

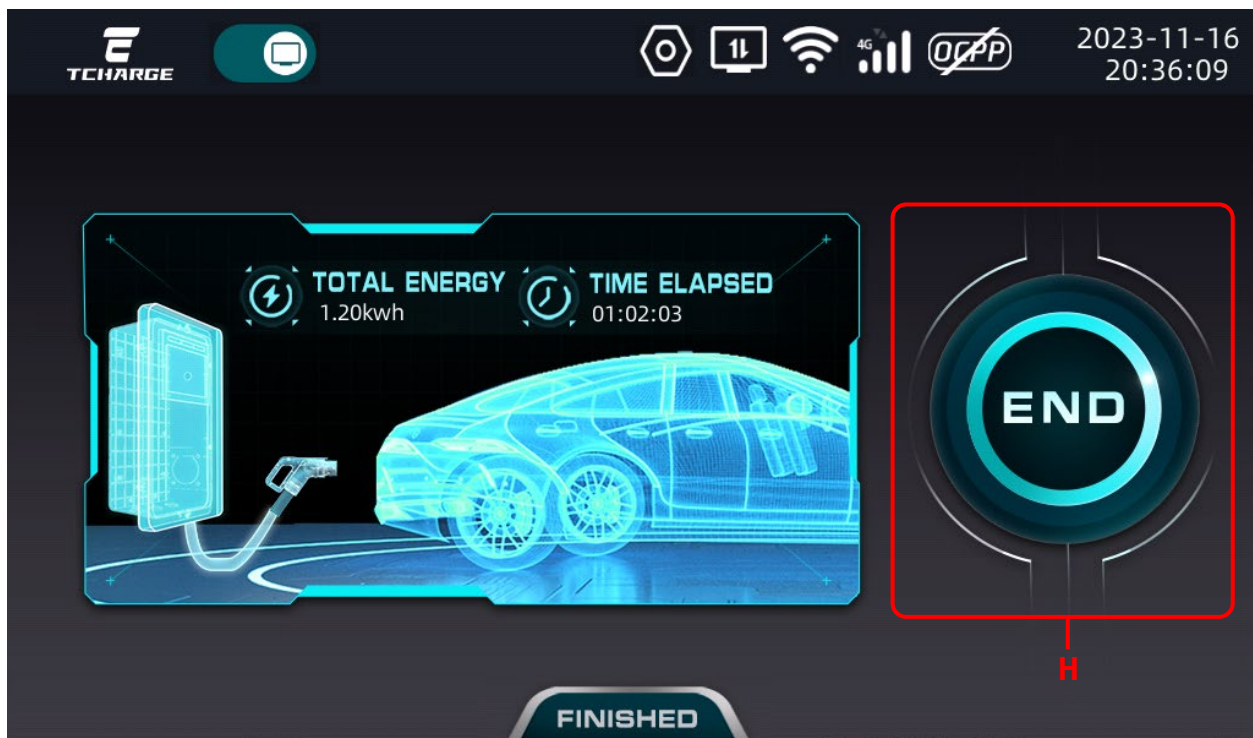


Figure 2.7 Charging Finished Screen

3. Admin Settings Menu

To access the **Admin Settings Menu** of **TCHARGE® UAC 50C / UAC 80C AC charger**, click on the **Admin Settings Menu** button (see **Part 2.1** above) on any page where the button is available.

3.1 Admin Account and Password

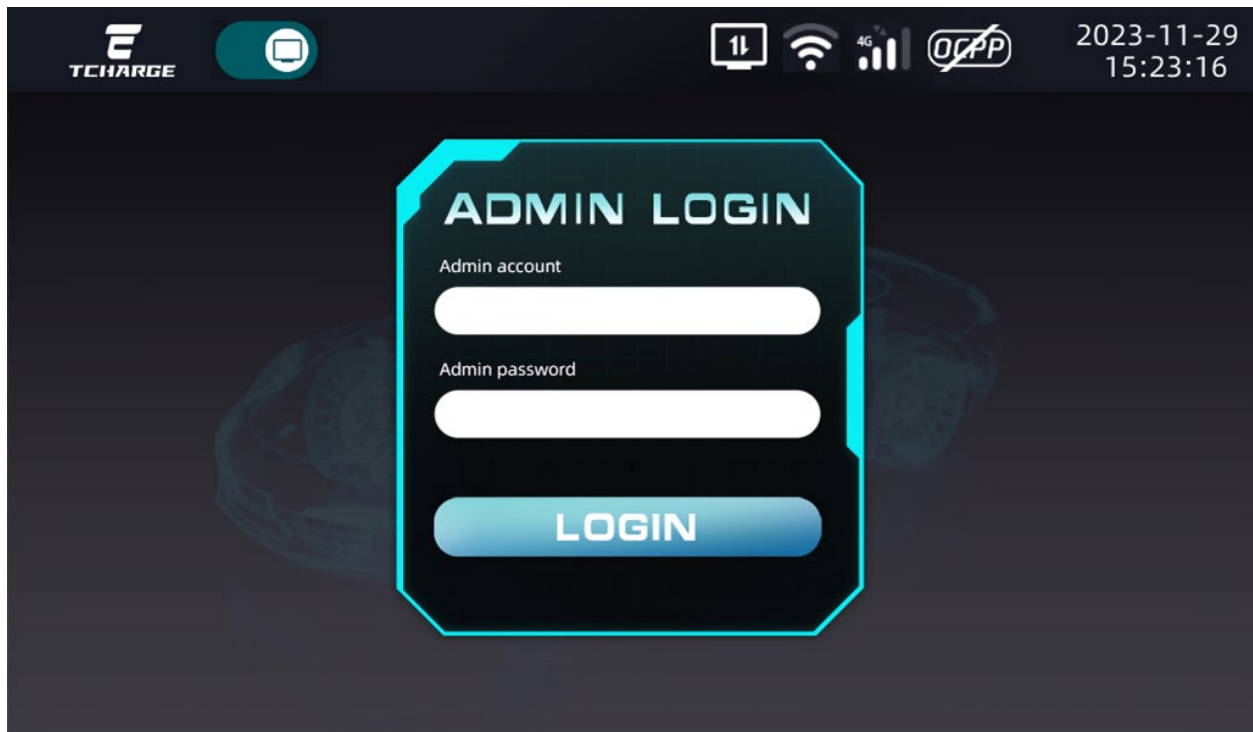


Figure 3.1 Admin Login Page

In order to access the **Admin Settings Menu**, you will need to enter the **Admin Account** and **Admin Password** on the **Admin Login** page, which is opened immediately after you click on the **Admin Settings Menu** button (Figure 3.1).

Default **Admin Account** and **Admin Password** for **TCHARGE® UAC 50C / UAC 80C AC charger** are:

- **Admin Account:** **TCHARGE** [all capital letters]
- **Admin Password:** **1234**

Note that you will need to press on “**upper case**” button in the UI system keyboard to key in **capital letters**, and to press on “**shift**” button to key in **numbers and special characters**. If both buttons are pressed, function of “**shift**” button will prevail. (That is to say, pressing on keyboard will result in inputs of numbers and special characters instead of capital letters.)

After accessing **Admin Settings Menu**, you can change the **Admin Password** in the menu. See [part 3.2.4](#) below for details.

3.2 Setting Pages in Admin Settings Menu

See below for a list of setting pages found in **TCHARGE® UAC 50C / UAC 80C AC charger's Admin Setting Menu** and their respective functions.

3.2.1 Max Charging Current Setting Page

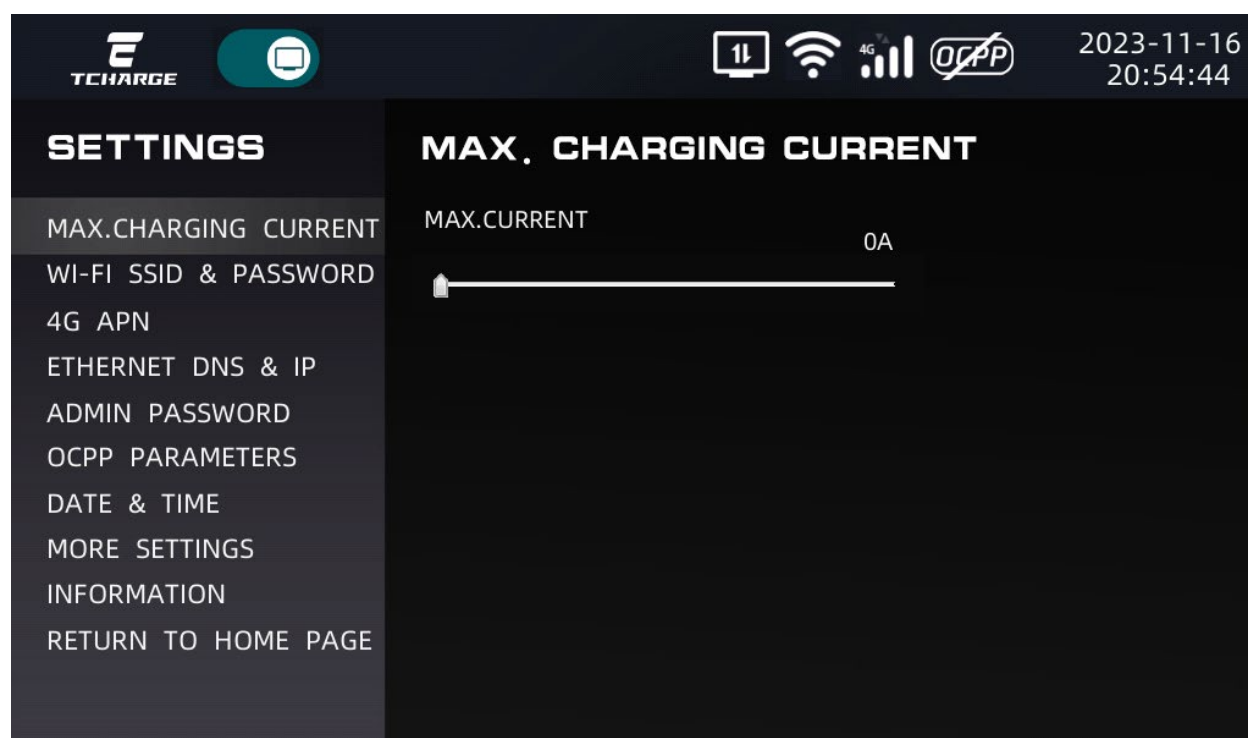


Figure 3.2 Max Charging Current Setting Page

You can scroll the control bar on this page to set up a **maximum charging current** value for the charger to deploy during charging processes. For instance, if you set the value as 32A, the charger will not charge vehicles with any output current greater than 32A.

This function can satisfy certain technical needs when the electric infrastructure supporting the charger cannot handle electricity flows of large volumes.

For a **TCHARGE® UAC 50C AC charger**, the greatest **maximum charging current** value possible will be **48A**. Setting up an upper limit over 48A for a **UAC 50C** charger will not be successful, as the system will indicate on the screen.

3.2.2 Wi-Fi SSID & Password Setting Page

Enter or change the Wi-Fi hotspot name and password on this page to connect the charger to a Wi-Fi hotspot nearby. Changes will be saved automatically once you leave this page. A reboot is **normally not required** for the charger to set up Wi-Fi connection, but if your initial attempts fail, please restart your charger to troubleshoot the issue (see [part 3.2.3](#) below).

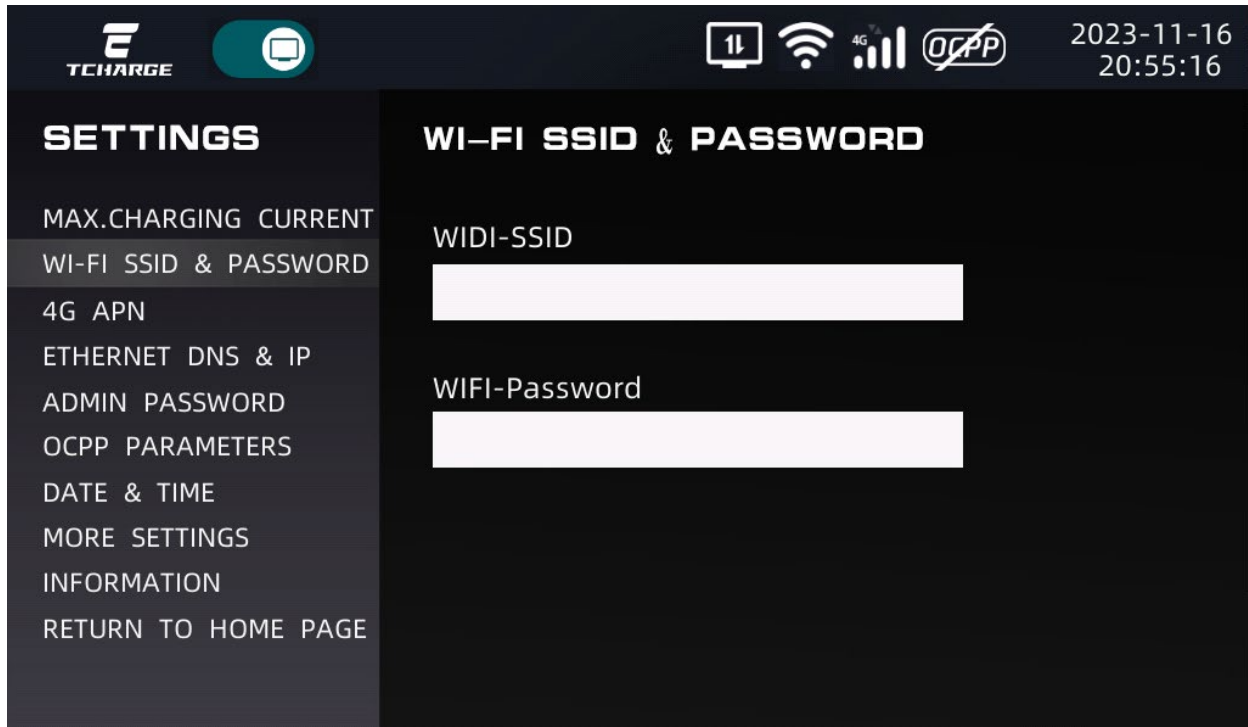


Figure 3.3 Wi-Fi Parameters Setting Page

3.2.3 4G APN Setting Page & Ethernet DNS and IP Setting Page

On these two pages (Figure 3.4 and Figure 3.5), you can enter or adjust the parameters regarding **4G connection** and **Ethernet connection** to set up the charger's connectivity. Contents entered in the text boxes will be saved once you leave the page.

Changes of parameters in 4G setting and Ethernet setting **may require the charger to be rebooted to take effect**. To do this, shut off the power supply to the charger temporarily, then restore.



Important Note

Because of the possible requirement of cutting off the power supply to your charger, it is recommended to **install the charger on a circuit with its own circuit breaker, or in proximity to your home electric panel**. Please refer to the installation manual for more information.

SETTINGS

- MAX.CHARGING CURRENT
- WI-FI SSID & PASSWORD
- 4G APN**
- ETHERNET DNS & IP
- ADMIN PASSWORD
- OCPP PARAMETERS
- DATE & TIME
- MORE SETTINGS
- INFORMATION
- RETURN TO HOME PAGE

4G APN

4G-APN

4G-USER

4G-Password

2023-11-16 20:55:58

Figure 3.4 4G APN Setting Page

SETTINGS

- MAX.CHARGING CURRENT
- WI-FI SSID & PASSWORD
- 4G APN
- ETHERNET DNS & IP**
- ADMIN PASSWORD
- OCPP PARAMETERS
- DATE & TIME
- MORE SETTINGS
- INFORMATION
- RETURN TO HOME PAGE

ETHERNET DNS & IP

Static IP

Static Gateway

Static Mask

DHCP

OFF

2023-11-16 20:56:27

Figure 3.5 Ethernet DNS and IP Setting Page

3.2.4 Admin Password Setting Page

This page allows changing for a new Admin password.



Important Note

To protect our users' privacy, at **TCHARGE** team we would **not** be able to retrieve admin passwords set for **TCHARGE®** chargers once they leave our factory. Please keep good track of the passwords by yourself! Our team would recommend taking notes each time after you set a new password for a charger.

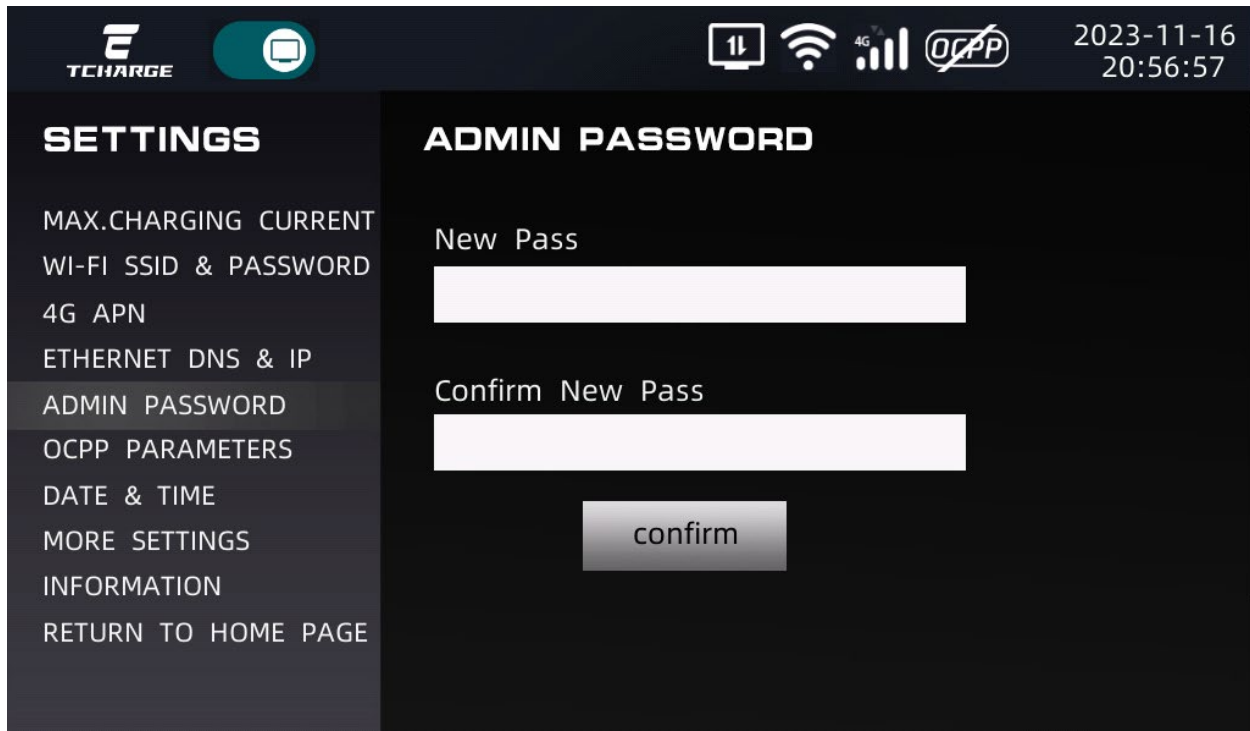


Figure 3.6 Admin Password Setting Page

3.2.5 OCPP Parameters Setting Page

OCPP parameters setting page (Figure 3.7) is used for configuration of the charger's backend OCPP platform connections. Please note that OCPP setup **always requires internet connections**.

The default **OCPP version** parameter for **TCHARGE®** UAC 50C / UAC 80C AC charger is "OCPP 1.6-J", and the server will be **TCHARGE's** own OCPP server. You may **change the address of the server on this page to connect to another OCPP server** run by another operator if needed.

Like in the cases of 4G setting and Ethernet setting, changes in OCPP setting **may require the charger to be rebooted to take effect**.

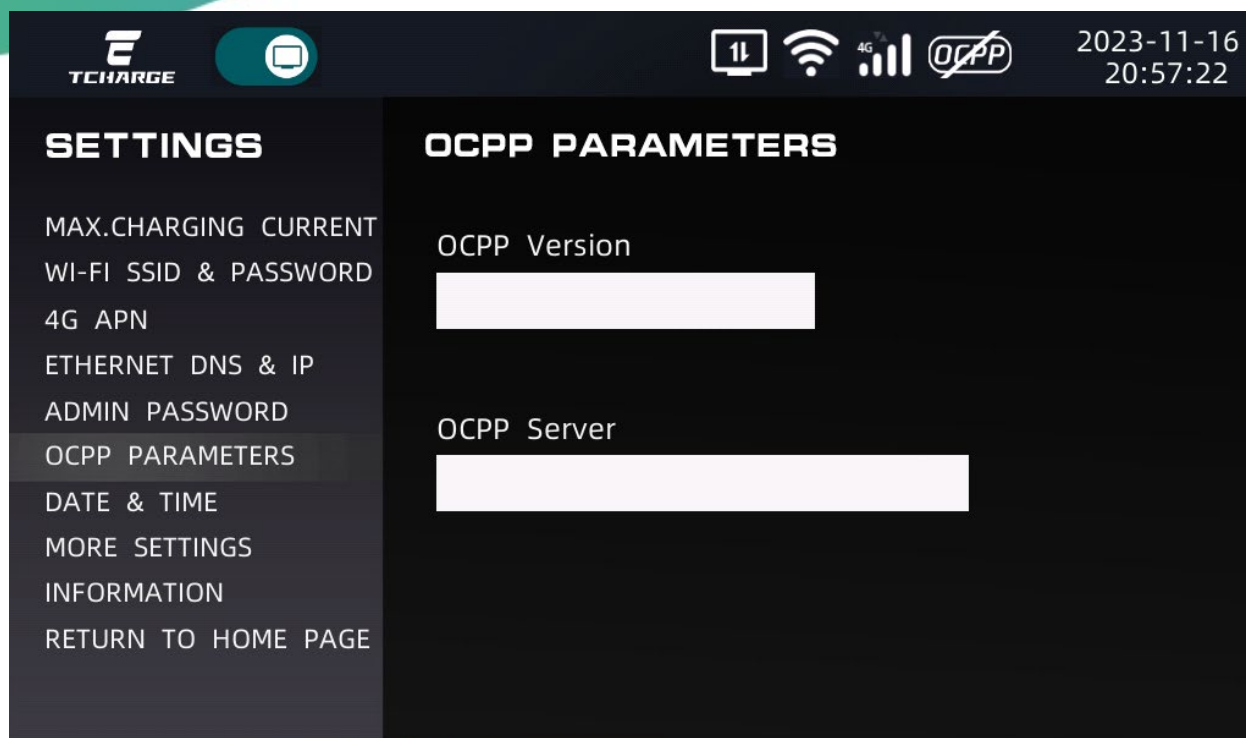


Figure 3.7 OCPP Parameters Setting Page

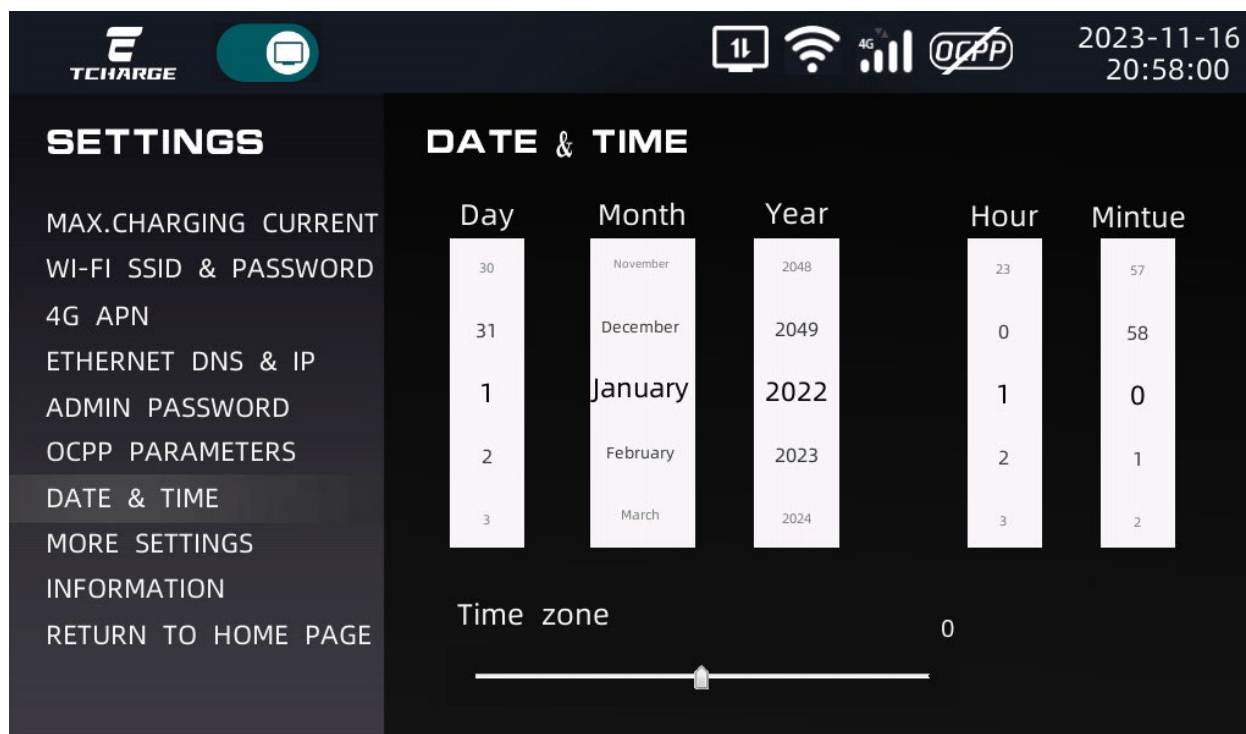


Figure 3.8 Date & Time Setting Page

3.2.6 Date & Time Setting Page

Change the date, time, and time zone set for the charger's UI system on this page.

Scroll up and down with the scroll bars on this screen to adjust respective values.

Negative values on the **Time Zone** scroll bar refer to time zones in the **western hemisphere**. For correspondences of North American time zones and values, see **Table 3.1** below.

No.	Time Zone	Standard Time	Daylight Saving Time
A	Atlantic (AST / ADT, Atlantic Canada)	-4	-3
B	Eastern (EST / EDT)	-5	-4
C	Central (CST / CDT)	-6	-5
D	Mountain (MST / MDT)	-7	-6
E	Pacific (PST / PDT)	-8	-7
F	Alaska	-9	-8
G	Hawaii-Aleutian (HST)	-10	-9

Table 3.1 North American Time Zones References

3.2.7 More Settings Page

You can find some more system setting options on this page (**Figure 3.9**): the screen light adjustment (**A**), checking for software updates (**B**), returning all settings to default ("**Factory Reset**", **C**), etc.

3.2.8 Information Page

This page offers **general information regarding the charger itself**, for example the charger's model, its firmware version, and its product serial number.

Please note that content shown in **Figure 3.10** is more of a concept. **With updates of the system, actual information available on this page may be different** from content of **Figure 3.10**.

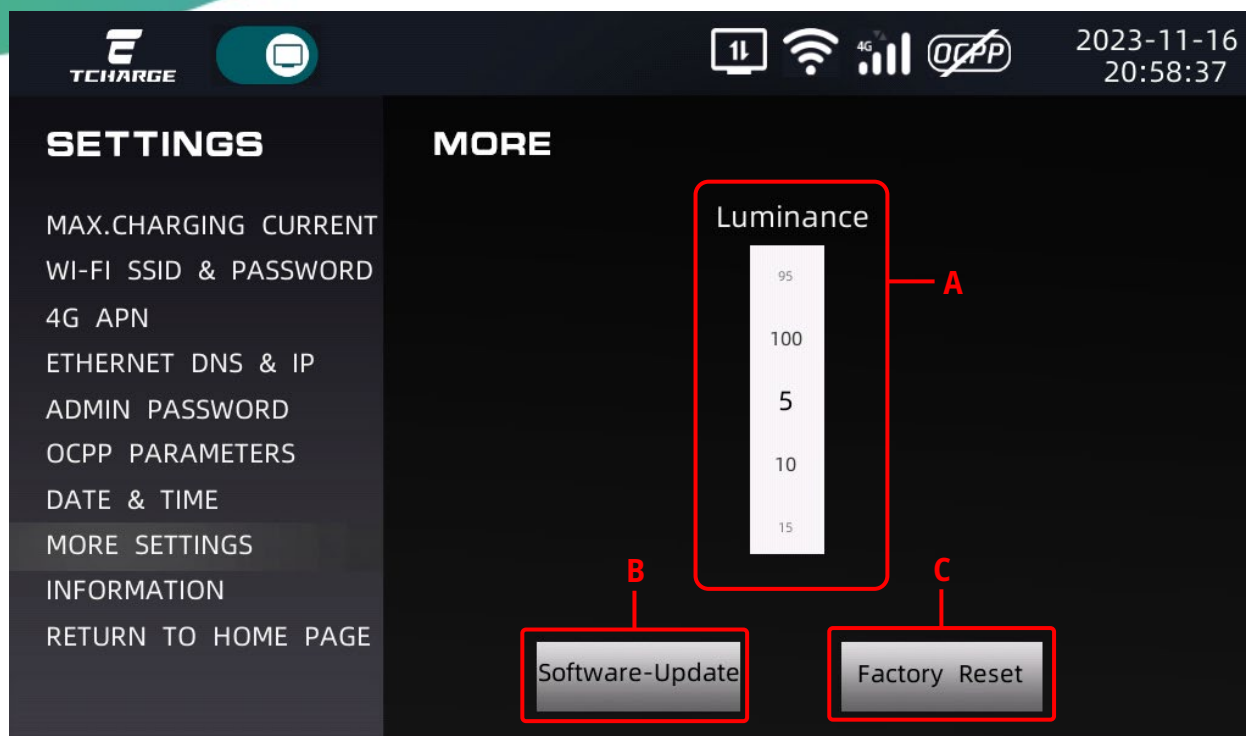


Figure 3.9 More Settings Page

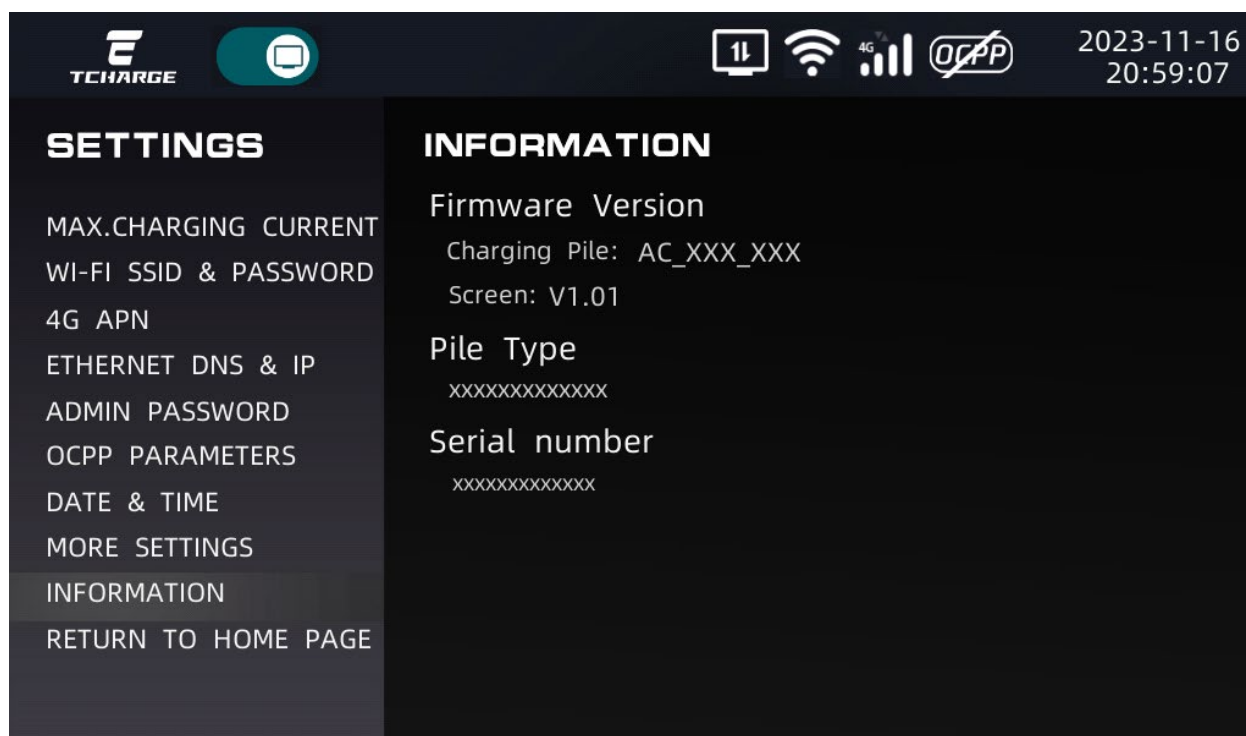


Figure 3.10 Information Page

4. Service and Support

If you encounter problems while installing, configuring, or using the charger, please reach out to our technical support team.

For services in U.S. or Canada, please contact **BLUEVIEW** with the following information:

Web: <http://www.blueview-usa.com/>

Tel: +1 (317) 772-1526

Email: info@blueviewelectricity.com







5. Compliance Information

The product is in conformity and certified with the following technical standards:

- UL2594
- UL2231-2
- UL2202
- SAE J1772

Search for Other TCHARGE® Product Documents!

Use the following tips and QR codes to access more useful tools and documents for TCHARGE® EV charger products.

Type	Instructions	
UAC Series AC Charger Installation Manual	For the latest version of TCHARGE® UAC 50 & UAC 80 series AC charger's installation manual , please scan the QR code to the right to download the document.	
Home Charge APP User Guide	For the latest version of TCHARGE® UAC 50H home charging mobile APP using guide, please scan the QR code to the right to download the document.	
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