

Mobile App Guide

1. Installation & Launch

1.1 Download & Installation

Scan the QR code below and select the appropriate app version for your mobile system. Tap the "Install" button, then wait for the download to complete and the installation to succeed. **Note:** For Android devices, if the installation fails, enable "**Allow installation of apps from unknown sources**" in your settings.



[Android APK](#)

Google Play Store coming soon!



[Apple App Store](#)



1.2 First Launch

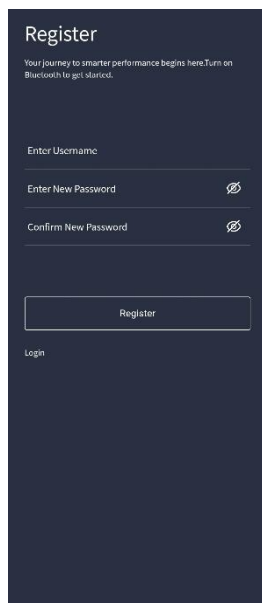
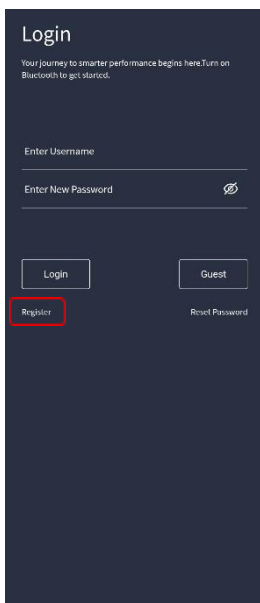


Before connecting to the charger via the app, you must enable Bluetooth, mobile data, and location services on your phone, as well as grant necessary permissions (such as camera, storage, etc.) to ensure proper functionality.

2. Registration and Login

2.1 New User Registration

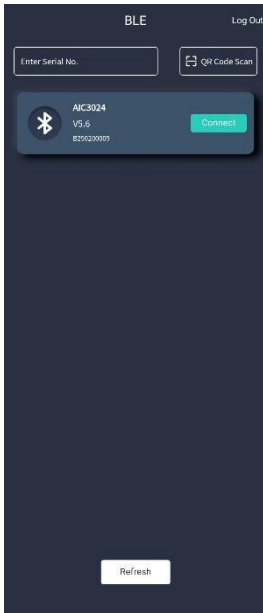
Click the "Register" button, enter a username, set a new password, and confirm the new password. Click the "Register" button to complete registration.



2.2 Account Login

After registration, back at the login screen enter your username and password then click the 'Login' to begin. **Note:** If you forget your username or password, you need to register a new account since we don't collect email or phone number for privacy reasons.

3. Main Function Operations



3.1 Pairing Charger to App

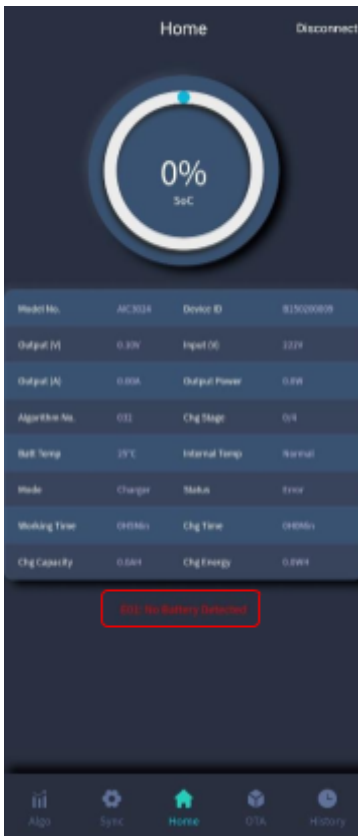
To ensure successful pairing, maintain the distance between your phone and the charger within 10 meters. Make sure the charger's DC is connected to the battery or the AC input is properly connected. The app offers three pairing methods:

- (1) **List Selection:** Choose the charger from the device list.
- (2) **SN Code Connection:** Locate the QR code sticker on the charger containing the product serial number (SN), then input this number to identify the charger.
- (3) **QR Scan:** Tap "Scan QR Code" and align your phone's camera with the QR code sticker on the charger for automatic identification.

After tapping the "Connect" button, the charger's "BT" indicator will illuminate green, confirming successful pairing.

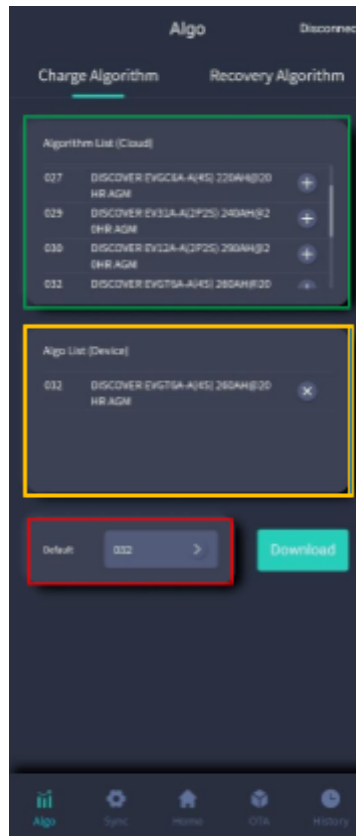
Note: Android users can tap the "Refresh" button to rescan nearby chargers in the list; iOS users may pull down the screen to trigger rescanning.

3.2 Main Interface Navigation



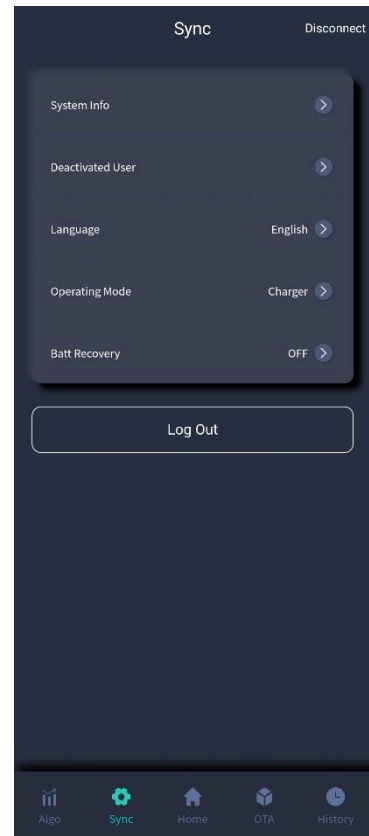
Home:

Displays the charging status as shown in the above figure. Abnormal conditions will be displayed in **red** text at the bottom of the interface.



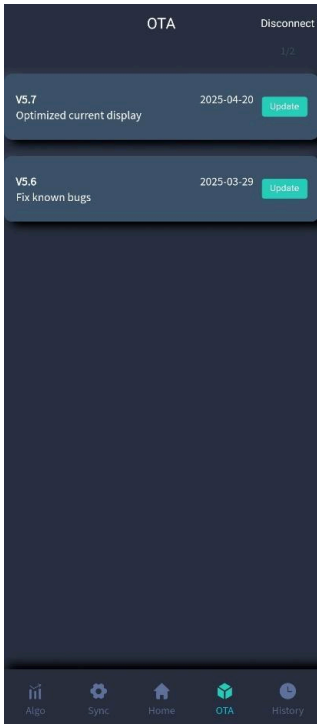
Algorithm (Aka. Curve Line):

Green area shows the Algo available from the server.
Orange area represents the Algo downloaded to the app.
Red area indicates the Algo currently running in the charger.



Sync:

Besides common setting functions, changing Languages, Battery Operating Mode, and Battery Recovery are enabled here.



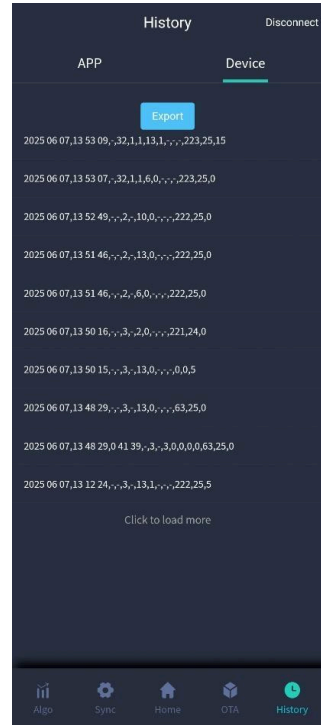
OTA:

Displays the current charger's firmware information and allows for firmware updates as needed.



History:

Includes both app operation logs and charging records. Pressing the **Export** button will generate a charger history data in excel format for download



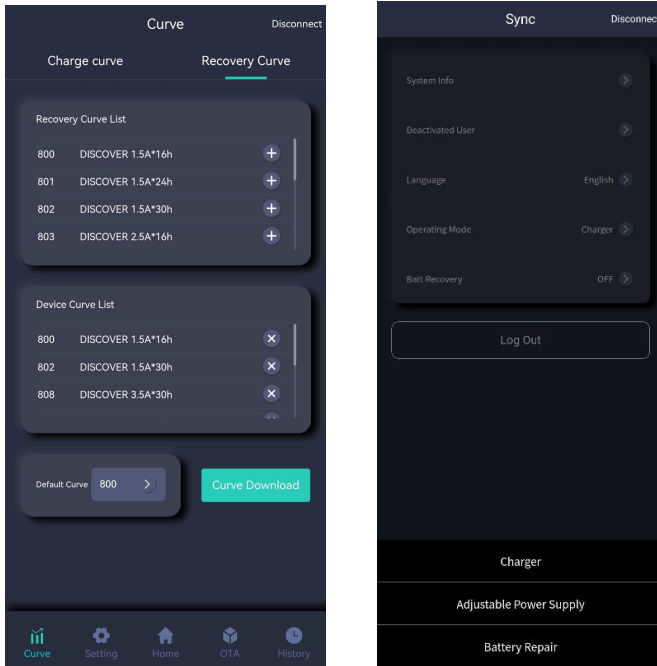
4. Operating Functions



4.1 Charging Algorithms

- (1) **Download Charging Algo:** Select a battery's algo from the cloud server list, click the "+" button on the right to add it to the device's charging algo list (support up to 8 algos). To remove an unwanted algo, click "X" in the device's algo list to delete. **IMPORTANT:** Remember to click "Download" to transfer the algo to the charger.
- (2) **Set/Changing Algos:** Click the Default algo dropdown menu, select the desired algo number, then the charger's LED display will show the corresponding algo number to confirm the change was successful.
- (3) **View Charging Algo:** There are three ways to check what is algo number running on the device:
 - a. **App > Home:** View the **Algorithm No.** on the Home screen status.
 - b. **Charger Panel (with DC):** When the charger DC is connected to the battery, by pressing the panel button once, it will display the battery voltage and default algo number.
 - c. **Charger Panel (with AC):** When the charger is connected to AC power, the default algo number will appear on display during charger startup.

4.2 Recovery Algo Operations



- (1) **Download Recovery Algo:** Click Recovery Algo tab at the top. Choose the algo number from the Recovery Algo List and click the "+" button on the right to add it to the bottom Device Algo List. Click "Download" to transfer the algo to the charger.
Note: Refer to 4.1.1 to add/remove algo
- (2) **Set Repair Algo:** Click Default Algo dropdown menu, select the desired algo number, and the charger's LED display will show the corresponding algo number to confirm the change.
- (3) **Activate Battery Recovery Mode:** Enable B.R. mode by navigating to: Settings > Operating Mode > Battery Repair. ***This mode setting persists after restarting the device.***
- (4) **Restore Charging Mode:** To resume normal charging mode, remember to change the Work Mode back to **Charger**.

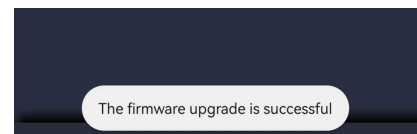
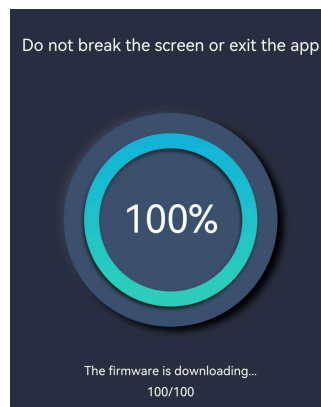
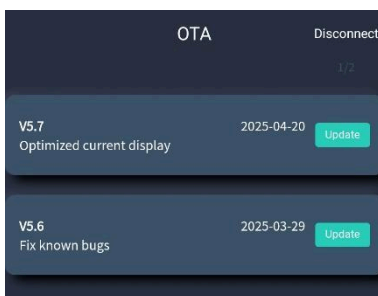
Note: (1) BR mode is a customized Recovery mode designed for specific battery brands. To perform battery repairs using this mode, technical support from the battery manufacturer is required. (See: **Appendix-A for Discovery EV-Battery recovery**); (2) BR mode is currently available on specific models only, consult your account manager for more details.

4.3 OTA Update Instructions

Note: Firmware updates are optional or for bug fixing, please advise your distributor before commencing updates

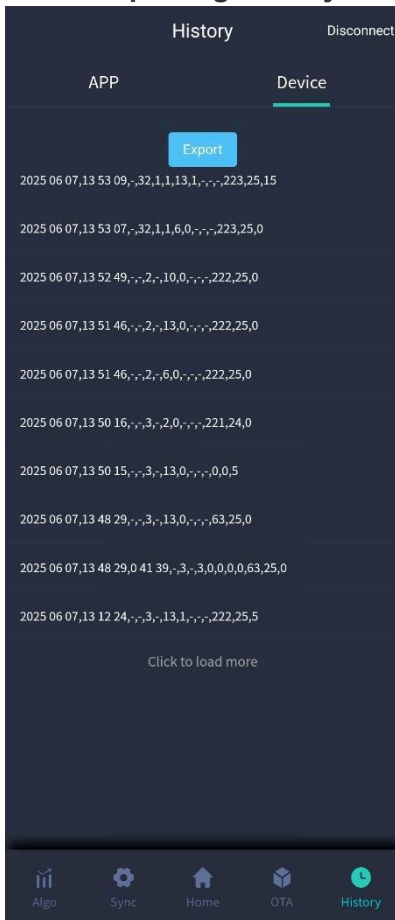
The charger can perform firmware updates when either the AC input or DC output is connected to a power source. Simply connect the charger to the APP, navigate to the "OTA" section in the bottom bar, select the firmware to be updated, and click the "Update" button.

- Wait until the update reaches 100%, then a prompt will appear saying "The firmware upgrade is successful." The charger display panel will show "UPT" and then turn off, indicating a successful firmware update.



- After the charger is powered on again, the firmware version will be displayed. Alternatively, you can check the firmware version by going to the bottom bar → Settings → System Information.

4.4 Exporting History



- (1) **Power The Charger:** Either the AC input or DC output side of the charger to a power source is required to download and export historical data.
- (2) **Access To History:** Connect to the targeted charger via the app, go to History. Choose between App or Device tab at top, then click the "Export" button to trigger the download. After the download is completed, an Excel file will be generated which contains data of the charging histories.
- (3) **Reading The Data:** The records are viewed from bottom to top. Current charging records are logged after charging ends or when the AC plug is disconnected. The content includes:
 - **Date:** Year/Month/Day when the record was generated
 - **Start Time:** Specific time when charging began
 - **Duration:** 24-hour format (Hour/Minute/Second), recording the time from charging start to end, including AC plug removal time
 - **Algo/Curve Number:** The algo number used by the current charger
 - **Working Mode:** Charging mode (e.g., BMS)
 - **Battery Type:** The battery type corresponding to the current algo
 - **Event:** Event status (e.g., E01, E02, etc.)
 - **Start Battery Voltage:** Battery voltage (V) at the start of the event
 - **End Battery Voltage:** Battery voltage (V) at the end of the event
 - **Charging Capacity:** Total capacity (AH) charged during this session
 - **Charging Energy:** Total energy (WH) charged during this session
 - **Mains Voltage:** AC input voltage (V) during charging
 - **Battery Temperature:** Battery temperature (°C) at the end of charging

Below is a sample screenshot of the downloaded data

Index	Date	Start Time(H:M:S)	Duration(H:M:S)	Curve No.	Working Mode	Battery Type	Event	Start Volt(V)	End Volt(V)	Charging Capacity(AH)	Charging Energy(WH)	AC Volt(V)	Battery Temp(°C)
1	2025/4/25	8:04:03	16:35:08	'103	Charge	AGM	AC plug out	51.3	54	123.6	449.8	48	25
2	2025/4/25	2:30:56	11:02:01	'103	Charge	AGM	Charging end	51.3	55.1	123.6	449.8	237	25
3	2025/4/24	15:28:55	-	'103	Charge	AGM	Charging start	51.3	-	-	-	228	25
4	2025/4/24	15:28:29	-	'103	Charge	AGM	AC plug in	51.3	-	-	-	226	25
5	2025/4/24	15:27:38	-	'103	Charge	AGM	Working curve change	51.3	-	-	-	0	25
6	2025/4/24	15:27:36	-	'027	Charge	AGM	Charging curve change	51.3	-	-	-	0	25
7	2025/4/24	8:38:50	13:46:20	'027	Charge	AGM	AC plug out	51.3	53.9	131.9	902	45	25
8	2025/4/24	3:19:17	8:26:47	'027	Charge	AGM	Charging end	51.3	57.6	131.9	902	233	25
9	2025/4/23	18:52:30	-	'027	Charge	AGM	Charging start	51.3	-	-	-	232	25
10	2025/4/23	18:52:04	-	'027	Charge	AGM	AC plug in	51.3	-	-	-	230	25
11	2025/4/23	18:51:53	-	'027	Charge	AGM	Working curve change	51.3	-	-	-	0	25
12	2025/4/23	18:51:38	-	'027	Charge	AGM	Charging curve change	51.3	-	-	-	0	25
Total : 12													

Appendix-A – Discovery Battery Recovery Mode

We partnered with [Discover Battery](#) to develop the corresponding Recovery Codes to their EV-series battery.

Note: The maximum charging voltage is 48V system, and the minimum is 6V system. When charging a single battery, pay attention to the battery temperature, If the battery temperature is found to be higher than 55°C, stop charging.

Below is a guide on the Recovery Code & hours required to recondition a flat battery:

Discover Battery	Less than 1 year old		1-2 years old		2+ years old	
Battery Model	Current* Hour	Recovery code	Current* Hour	Recovery code	Current* Hour	Recovery code
EVU1A-A	1.5A*16h	800	1.5A*24h	801	1.5A*30h	802
EV22A-A/EV34A-A	2.5A*16h	803	2.5A*24h	804	2.5A*30h	805
EV24A-A/EV27A-A	3.5A*16h	806	3.5A*24h	807	3.5A*30h	808
EV31A-A/EV12A-A/EV512A-150/EVGC8A-A/EVGT8A-A	5.0A*16h	809	5.0A*24h	810	5.0A*30h	811
EV512A-210FT/EV627A-A/EV4DA-B/EVGC6A-A/EV185A-A/EV506A-230/EV4DA-A/EV805A-A/EVGTGA-A/EV8DA-A	8.0A*16h	812	8.0A*24h	813	8.0A*30h	814
EV305A-A/EVL16A-A	12.0A*16h	815	12.0A*24h	816	12.0A*30h	817