



Powered by  tuya

SmartApp 2.0

User Manual

- **Immediate or Delayed** — Charge now, or wait past Peak
- **TOU Rate Plan** — Your real utility prices in the app
- **Smart Schedule** — Charge automatically on cheap hours
- **Dynamic Rate** — Follow live prices where available
- **Solar Only** — Prefer free solar surplus
- **DLB** — Protect the home main breaker
- **Smart Statistics** — Track energy, cost, and savings
- **Safety & Health** — Self-test and event history
- **Charging Approval & NFC** — Control who can start charging
- One app — Modes, tariffs, solar/DLB, and statistics together

Charge Smarter, Pay Less.

Start with what you want to do

This guide starts from a charging goal and takes you straight to the App path. Screens and labels may vary slightly by charger model, firmware, account and market.

Your goal	Start here
Charge as soon as possible	<u>Immediate</u>
Wait a few hours, then charge	<u>Delayed</u>
Use the cheapest fixed-tariff hours	<u>Rate Plan</u> → <u>Smart Schedule</u> → <u>Scheduled</u>
Follow a supported dynamic tariff	<u>Rate Plan</u> → <u>Dynamic Rate / Charging mode</u> → <u>Dynamic Schedule</u>
Prefer surplus solar energy	<u>Smart Meter</u> → <u>Solar Only</u>
Avoid overloading the main supply	<u>Smart Meter</u> → <u>Dynamic Load Balancing (DLB)</u>
Check energy, cost and savings	<u>Statistics</u>

GOLDEN RULE

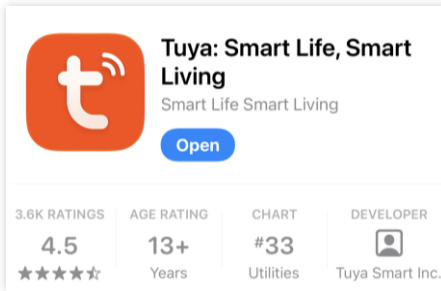
For cost-aware charging, enter your real Rate Plan first. Timeline colors, live estimates and savings depend on it.

Model differences

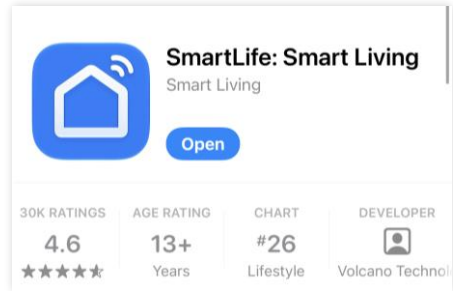
- Maximum current is limited by the charger, cable or power adapter, supply and vehicle. SmartApp cannot override a hardware safety limit.
- Solar Only, Dynamic Rate, DLB, temperatures and Diagnostics appear only on supported, activated products.

Pair the charger once

Use this when the charger has not yet been added to your Tuya account, or the Wi-Fi network has changed.



Install Tuya Smart



Install Smart Life

- Install **Tuya Smart** or **Smart Life** from the official app store and create or sign in to your account.
- Connect the charger to a compatible earthed outlet. Keep the EV connector disconnected and wait for the self-test to finish.
- Hold A key for 8 seconds until the Wi-Fi indicator flashes. This may clear the previous Wi-Fi association.
- Enable Bluetooth on your phone. In Tuya Smart app, tap + → Add Device and select the detected charger.
- Enter the **2.4 GHz Wi-Fi** credentials and follow the prompts until the charger appears on Tuya Home.

IF PAIRING FAILS

Confirm that 2.4 GHz is enabled, move closer to the router, keep the EV disconnected and repeat the hardware pairing sequence.

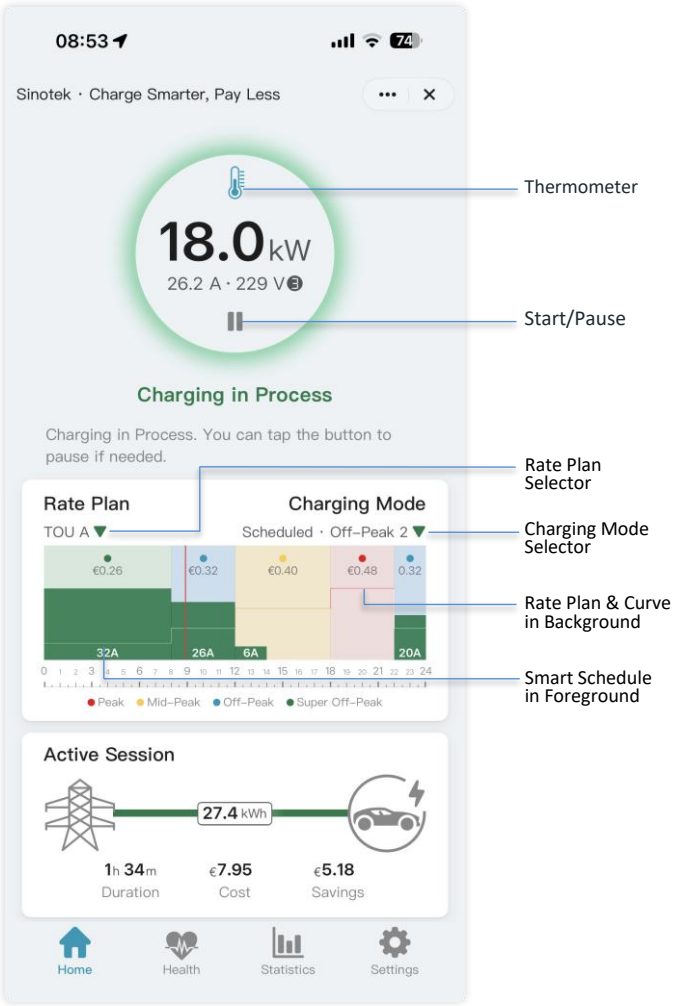
Read Home at a glance

Home answers three questions:

1. What is the charger doing?

2. Which plan and mode are active?

3. How much energy is this session using, and how much is it costing?



cOn Home	What it tells you
Gauge	Status, live power, current and voltage
Background colors	Active Rate Plan periods
Foreground bars	Scheduled, delayed or Solar Only window
Thermometer	Plug, control-box and EV-connector temperatures, where supported
Active Session	Energy, duration, estimated cost and savings

Charge now or after a short wait

Immediate — power as soon as the EV is ready

Use this when you need energy before leaving and price optimization is not the priority today.

- Connect the charger to your EV.
- **Home** → **Charging Mode** → **Immediate**.
- Set Delay to 0 and choose a permitted charging current.
- Tap **Confirm**.

The screenshot shows the 'Choose a Charging Mode' screen with three tabs: 'Immediate' (selected), 'Scheduled', and 'Solar Only' (marked as Beta). Below the tabs, the 'Charging Delay' is set to 'Immediate' with a slider from 0 to 8, where the knob is at 0. The 'Charging Current' is set to 32 A with a slider from 6 to 32, where the knob is at 32. At the bottom are 'Cancel' and 'Confirm' buttons.

Delayed — simple countdown

Use this when the expensive period ends soon and you do not need a repeating weekly schedule.

- Connect the charger to your EV.
- **Home** → **Charging Mode** → **Immediate**, set the delay > 0 to enter **Delayed** mode.
- Choose the countdown and charging current.
- Tap Confirm. Charging begins when the countdown ends.

The screenshot shows the 'Choose a Charging Mode' screen with three tabs: 'Delayed' (selected), 'Scheduled', and 'Solar Only'. Below the tabs, the 'Charging Delay' is set to '2h 30m' with a slider from 0 to 8, where the knob is at 2.5. The 'Charging Current' is set to 32 A with a slider from 6 to 32, where the knob is at 32. At the bottom are 'Cancel' and 'Confirm' buttons.

A DELAY IS NOT A CLOCK TIME

In the LCD screen of the charger, 02:30:00 means start after 2 hours 30 minutes—not start at 02:30.

Set your Rate Plan first

Edit plan name

Edit Rate Plan

Plan Name: **TOU A**

Weekdays **Weekends**

Define Rates

TOU rates help you plan smarter charging and estimate costs and savings. Estimates are for reference only, not for billing.

- Peak: €0.48 /kWh
- Mid-Peak: €0.40 /kWh
- Off-Peak: €0.32 /kWh
- Super Off-Peak: €0.26 /kWh

Hold & drag to adjust time

Drag to change rate type

Tap to define start time

Tap to change rate type

Start Time	Rate	Price (€/kWh)
00:00	Super Off-Peak	0.26
06:00	Off-Peak	0.32
09:00	Mid-Peak	0.40
18:00	Peak	0.48
22:00	Off-Peak	0.32

Edit name

Edit Schedule

Schedule name: **Off-Peak 2**

Weekdays **Weekends**

Define both weekdays & weekends

Drag to adjust time & current

Start Time

Set current

Delete

Add

Save & exit

Start Time	Charging Current	Est. kWh	Est. Cost
00:00	32 A	50.8	€14
07:00	20 A	22.7	€6.36
12:00	Off		
22:00	26 A	11.8	€3.31
Total		85.3	€17.81

Use this when you have a Time-of-Use (TOU) tariff contract and want accurate timeline colors, cost estimates and savings.

- **Settings** → **Rate Plan**. Select a profile and open its editor.
- Rename it if useful. Enter the real price for each tariff tier used by your utility.
- Hold and drag a boundary left or right to adjust the time. To change the rate type, hold the period's top edge and drag up or down. Alternatively, tap › in the table to set the start time and rate type.
- Tap blue + to add a row or red – to remove one if necessary.
- Configure both **Weekdays** and **Weekends**.
- Review the 24-hour timeline and tap **Confirm**.
- Back on the plan list, select the rate plan you want active and confirm again.

ESTIMATE ONLY

Use the Rate Plan to create Smart Schedules and save on charging. Cost estimates are for reference only and cannot be used for billing.

Build a Smart Schedule inside the cheap hours

Use **this when** you want the charger to wait every evening and run automatically during Off-Peak or Super Off-Peak hours.

- **Settings → Smart Schedule**. Select a schedule profile to edit. Your active Rate Plan appears in the background for reference.
- Tap the blue + to add a row or the red – to remove one.
- Select a **start time** within a lower-rate period, choose **Turn ON**, and set a suitable charging current. Repeat to add more charging events or current changes.
- Select an **end time** and choose **Turn OFF**.
- Drag a timeline boundary left or right to fine-tune the event time. Also, you can drag the top edge to adjust the charging current.
- Configure both **Weekdays** and **Weekends**.
- Tap **Confirm** to save the schedule.

USE ONE SCHEDULER

Use SmartApp Scheduled mode or the vehicle's own scheduler—not both. If both are active, charging can occur only when their time windows overlap.

Use the schedule every day

- **Home → Charging Mode → Scheduled**.
- Select the circle for the saved schedule, then tap **Confirm**.
- When you arrive home, connect the EV and leave the charger powered.
- The charger waits and starts automatically in the selected low-price window.

Before walking away

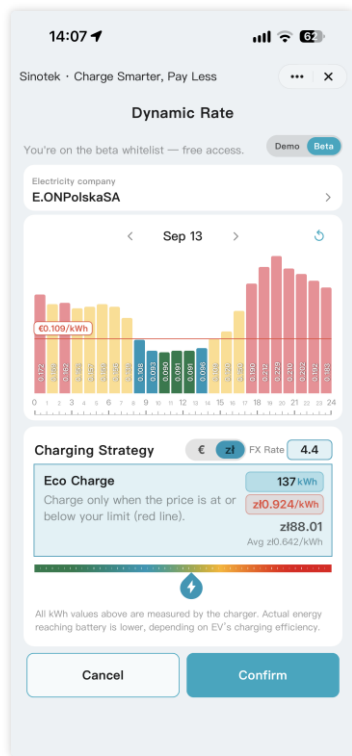
- The **Rate Plan** matches the utility tariff for both weekdays and weekends.
- The intended **Rate Plan** and **Smart Schedule** are selected.
- **Scheduled** mode is active and the EV's own scheduler is off.
- The EV is connected and the charger remains powered.

Follow a supported Dynamic Rate

Use this when your electricity contract uses live or day-ahead prices and Dynamic Rate is available for your market and account.

Note: This feature is under Beta test now, and only available to invited users currently.

- Connect the charger to your EV.
- Open **Rate Plan** and select **Dynamic**. This is a paid subscription feature, and currently is available to selected beta testers.
- Follow the on-screen instructions to enter your country, city, and postal code. Select your electricity provider and Dynamic Market, then tap Save to load the latest rates onto this screen.
- Set your charging strategy by dragging the red price threshold, then tap **Confirm**.



IMPORTANT

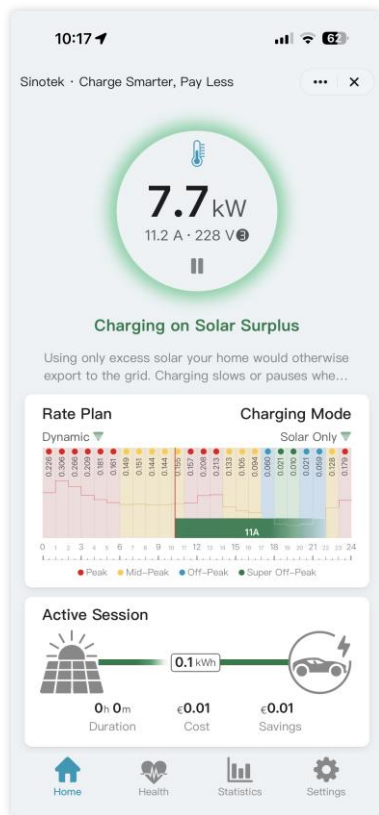
The data is integrated by Tuya's Conow Labs from third-party sources. Check the rates and currency regularly, enter correct exchange rate to ensure accuracy.

Dynamic Rates and Eco Charge provide estimates to help you choose the cheapest charging times. For actual charges, refer to your electricity provider's bill.

Charge from solar surplus (Smart Meter needed)

Use this when you have rooftop PV and want to charge with surplus solar power instead of following a fixed schedule.

- Install a specified Smart Meter on the home's main incoming supply—NOT just the solar circuit.
- Add the Smart Meter to your Tuya account and check that it is online and reporting correctly.
- **Settings → General → Smart Meter.** Bind the Smart Meter with the charger.
- **Home → Charging Mode → Solar Only.** Check that the meter is working correctly, then tap **Confirm**.
- Plug the connector into your EV. Charging starts automatically once enough surplus solar power is available.
- If the surplus falls below the minimum required for three-phase charging (6 A per phase), the charger automatically switches to single-phase charging, using a higher current to make the most of the available solar power.
- Solar Only charging stops automatically if insufficient solar surplus causes the system to draw 3 A or more from the grid for over 30 minutes, or if the Smart Meter remains offline for 10 minutes.



Protect the main breaker with DLB (Smart Meter needed)

Use this when EV charging plus household loads could together exceed your home's supply limit.

- Install a compatible Smart Meter on your home's main incoming supply, then go to **Settings** → **General** → **Smart Meter** to link it to your charger.
- Go to **Settings** → **Dynamic Load Balancing (DLB)** and enter your main breaker's current rating. The system automatically applies a safety margin.
- For multiple chargers, assign one **Master** and up to two **Slaves**. Set the main breaker's current rating on the Master; the Slaves automatically share this setting.
- Tap **Confirm**.
- Each charger automatically adjusts its charging current as household demand changes, helping prevent overloads while making the most of the available capacity.

ELECTRICAL INSTALLATION STILL MATTERS

DLB manages available site current. It does not replace correct wiring, breaker sizing or required protective devices.

Share access and approve charging

Use this when family members or other permitted users need App access, or you want to approve each charging request.

- Use the Tuya device-sharing controls to invite the intended account. The original account remains the host for most settings.
- To require authorization, open **Settings** → **Charging Approval** and turn it on.
- When a vehicle requests charging, respond **Allow** or **Deny** in the host App.
- On charger models with NFC support, an NFC card can also be used to authorize charging.
- Under Settings, press and hold the Charging Approval card for 3 seconds to open the NFC card management page, where you can add or remove cards.



CHARGING ACCESS & BILLING

Approval controls who may use the charger. Electricity is billed to the premises supplying the charger; it is not assigned to the user's app account.

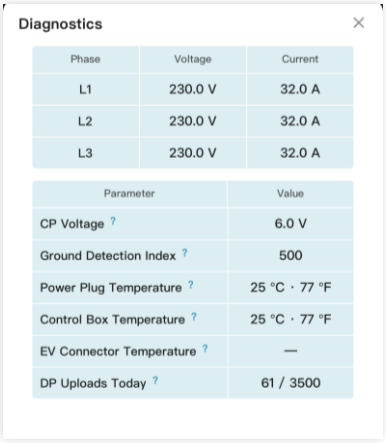
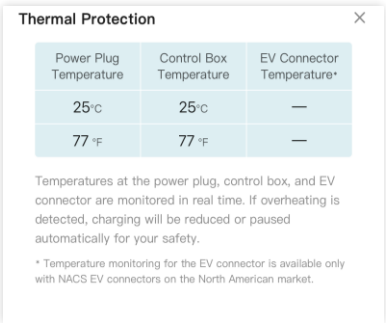
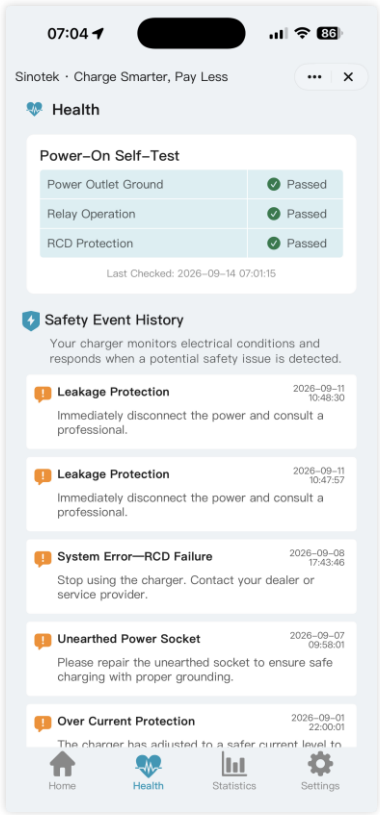
Check Health, temperatures and Diagnostics

Health

Review the latest power-on self-test report and safety-event history.

Thermal Protection and Diagnostics

Tap the thermometer on Home for monitored temperatures. Diagnostics in Settings may show phase voltage/current, CP voltage, ground information, temperatures and upload status. These readings are for observation and support—not for bypassing protection or user repair.



SAFETY FIRST

If a protection warning repeats, stop charging and follow the charger hardware manual. Do not repeatedly reconnect to force charging.

Finish a session and keep its record

Use this when you want the completed session to appear promptly in **Statistics**.

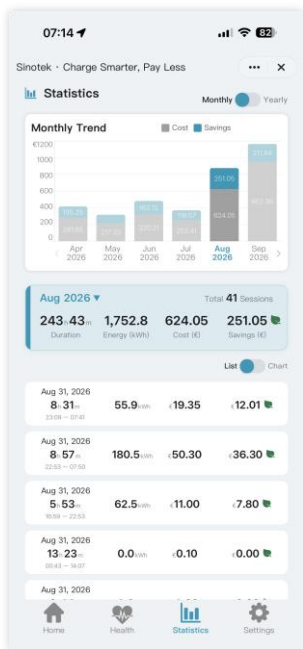
- When ready to leave, unlock the vehicle inlet and physically remove the EV connector while the charger is still powered.
- Wait for the charger to return to standby and complete the cloud upload. The charging record will then appear in **Statistics**.
- Only then remove supply power if you need to unplug the charger.

DO NOT UNPLUG THE SUPPLY FIRST

Physical EV-connector removal triggers the upload while Wi-Fi and supply power are still available.

Review Statistics

- Switch between **Monthly** and **Yearly** views.
- Swipe a chart or summary card left/right to browse periods; tap a bar to open it.
- Use **List** or **Chart** for session detail and export CSV where available.
- Update the Rate Plan after a tariff change. Earlier records may not recalculate.



All kWh values are measured by the charger. Actual energy reaching the battery is lower, depending on the EV's charging efficiency.

Settings at a glance

DEVICE & CONNECTION

Charger Information — device & session summary

Charger Network — Wi-Fi status and network

CHARGING & COST

Rate Plan — tariff prices and time periods

Smart Schedule — automatic ON/OFF periods

SOLAR & LOAD MANAGEMENT

Smart Meter - Required for Solar Only and DLB

Dynamic Load Balancing — protect the site supply

ACCESS & SAFETY

Charging Approval — allow charging / manage NFC

Preset Max Current — cap charger current

APP PREFERENCES - General Settings

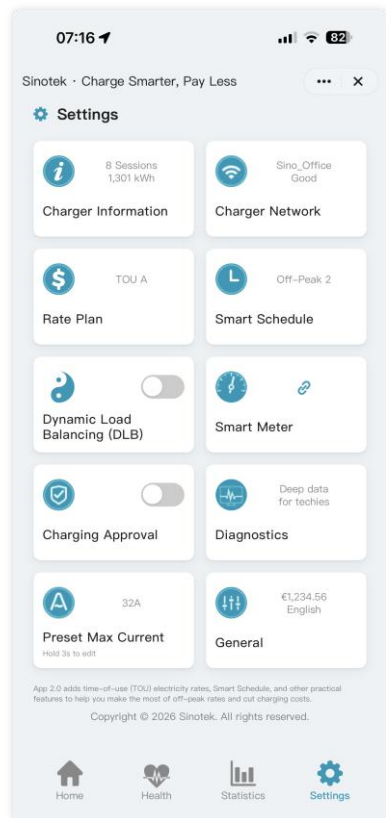
Language, Theme, Currency, Number Format

Icon & Name, Reboot and Factory Reset

IMPORTANT

Dynamic Rate currencies vary by country. If you choose a local currency other than EUR, check the rates and currency carefully and enter an exchange rate if needed for accurate conversion.

If you don't use Dynamic Rate, feel free to choose your local currency.



If something does not work

What you see	Check first
Pairing fails	2.4 GHz enabled; Bluetooth on; EV disconnected; charger in pairing mode; move closer to router
Cost or savings looks wrong	Currency; Rate Plan prices/hours; active plan; tariff-change date
Schedule misses cheap hours	Schedule vs Rate Plan; correct schedule selected; vehicle scheduler off
Charging will not start	Hardware status; vehicle lock; mode; delay/schedule; Charging Approval
Solar Only cannot enable	Primary meter bound correctly and online; sufficient surplus
DLB is unavailable	Host account; supported meter; feature activation; Master/Slave role
Dynamic Rate is unavailable	Market/account access; supported data source; correct tariff contract
Session is missing	Physically unplug EV connector while charger remains powered and online
App is offline	Router, signal strength and Charger Network settings

Prepare for support

- Charger model and serial number in Charger Information of Settings.
- App and firmware version
- Mode, Rate Plan or schedule in use
- Screenshot of the message and Diagnostics, if available
- Time of the event and whether it repeats

Daily quick reference

I need...	Do this
Power now	<u>Home</u> → <u>Charging Mode</u> → <u>Immediate</u> → <u>Current</u> → <u>Confirm</u>
A short countdown	<u>Home</u> → <u>Charging Mode</u> → <u>Immediate</u> → <u>set Delay > 0 and Current</u> → <u>Confirm</u>
Cheap overnight charging	Select <u>Rate Plan</u> → select <u>Smart Schedule</u> → <u>Scheduled</u> → connect EV
Live-price charging	<u>Dynamic Rate</u> → fine-tune strategy → <u>Confirm</u>
Solar surplus	Primary Smart Meter online → <u>Solar Only</u> → <u>Confirm</u>
Main-breaker protection	Primary Smart Meter → DLB → main-breaker current → Confirm
A complete session record	Remove EV connector while powered → wait for data upload → unplug supply

New-user checklist

- ☐ **Rate Plan** contains real local TOU prices and both **Weekday/Weekend** periods.
- ☐ The correct Rate Plan profile is selected on **Home**.
- ☐ **Smart Schedule** ON events fall inside the intended low-price periods.
- ☐ For overnight charging, **Scheduled** mode and the intended Smart Schedule are active.
- ☐ Health shows passed self-test results after first installation.
- ☐ After several charging sessions, verify that the cost figures in **Statistics** are consistent with the tariff you entered.

For electrical connection, approved adapters, fault messages, safe disconnection, cleaning and service, follow the hardware manual supplied with the charger.