Lion EV-Ultra Instructions

Ultra
Lion King

6 colors Available

It is recommended to read the instructions before use

WARNING!

- Avoid immersing the AC charging connection device in water.
- Do not step on, pull, bend, or knot the charging cable.
- Do not insert foreign objects into any part of the Charging vehicle connector.
- Refrain from dropping the control box or placing heavy objects on its surface.
- Do not install or use the charger near flammable, explosive, harsh, or combustible materials, chemicals, or vapors.
- Ensure the operating ambient temperature of the equipment remains within the range of -30 °C to +55 °C.
- Don't use the charger when you,the vehicle,or the charger is exposed to severe rain.
- Do not use the charger if it is defective, appears cracked, frayed, broken, otherwise damaged, or fails to operate.
- Do not use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage.
- Do not attempt to open, disassemble, repair, tamper with, or modify the charger.
- This product is exclusively designed for electric vehicle charging purposes.
- Avoid using external wires or adapters.
- This product must be well-grounded when used.
- Never insert your fingers into the charging plug.
- The EV charger is not user serviceable. Contact us at tina@feyree.com start for any repairs.
- If the device fails to charge normally as per the operation manual, please contact the seller or consider a replacement.
- Never allow children to play with the charger cable.
- To avoid the risk of fire or electric shock, do not use this device with an extension cord.
- Using a worn or damaged AC outlet may cause burns or start a fire.
- Risk of explosion. This equipment has an arc or sparking parts that should not be exposed to flammable vapors
- Risk of electric shock. Do not remove the cover or attempt to open the enclosure of the charger unit No user-serviceable parts inside. Refer servicing to qualified service personnel.

CAUTION!

Please Note Before Start Charging

Precautions 1:

*It is recommended that electrical outlets for your charger should be installed by a licensed and qualified electrician. To avoid serious injury or death; installation must comply with local codes.

*This product must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to help reduce the risk of electric shock.

Precautions 2:

*Ensure the power plug and socket are compatible before initiating the charging process.

*Do not charge if the socket is damaged, rusty, cracked, or has a loose connection. In case the socket is dirty or wet, please disconnect the power supply first. Wipe the charging plug with a dry and clean cloth to ensure it is dry and free from any debris.

*Verify that the charging connector, cable, control box, and plug surface are in good condition without any scratches, rust, breaks, or damages.

TYPE2 / GB/T

Power Rating	3.5kW	7kW	11kW
APP	●	●	●
Leakage Protection	TypeB AC 30mA+DC 6mA		
Power Supply System	Single Phase	Single Phase	Three Phase
Rated Voltage	85V-264V	85V-264V	380V±20%
Rated Current	8-16A	8-32A	8-16A
Input Frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Charger Plug	IP66	IP66	IP66
Charger Box	IP66	IP66	IP66
Working Temperature	-30℃ ~ +55℃	-30℃ ~ +55℃	-30℃ ~ +55℃
Storage Temperature	-40℃ ~ +80℃	-40℃ ~ +80℃	-40℃ ~ +80℃
Standby Power	<3W	<3W	<3W
Working Humidity	5% ~ 95% non-condensation	5% ~ 95% non-condensation	5% ~ 95% non-condensation
Cable Specification	3G 2.5mm²+2*0.5mm²	3G 6mm²+2*0.5mm²	5G 2.5mm²+2*0.5mm²

TYPE1 / TS-NACS

Power Rating	3.5kW	7kW
APP	●	●
Leakage Protection	TypeB AC 30mA+DC 6mA	
Power Supply System	Level 1 and Level 2	Level 1 and Level 2
Rated Voltage	85V-264V	85V-264V
Rated Current	8-16A	8-32A
Input Frequency	50Hz/60Hz	50Hz/60Hz
Charger Plug	IP66	IP66
Charger Box	IP66	IP66
Working Temperature	-30℃ ~ +55℃	-30℃ ~ +55℃
Storage Temperature	-40℃ ~ +80℃	-40℃ ~ +80℃
Standby Power	<3W	<3W
Working Humidity	5% ~ 95% non-condensation	5% ~ 95% non-condensation
Cable Specification	TYPE1: 3G 2.5mm²+2*0.5mm² TS-NACS: 3G 2.5mm²+3*0.5mm²	TYPE1: 3G 6mm²+2*0.5mm² TS-NACS: 3G 6mm²+3*0.5mm²

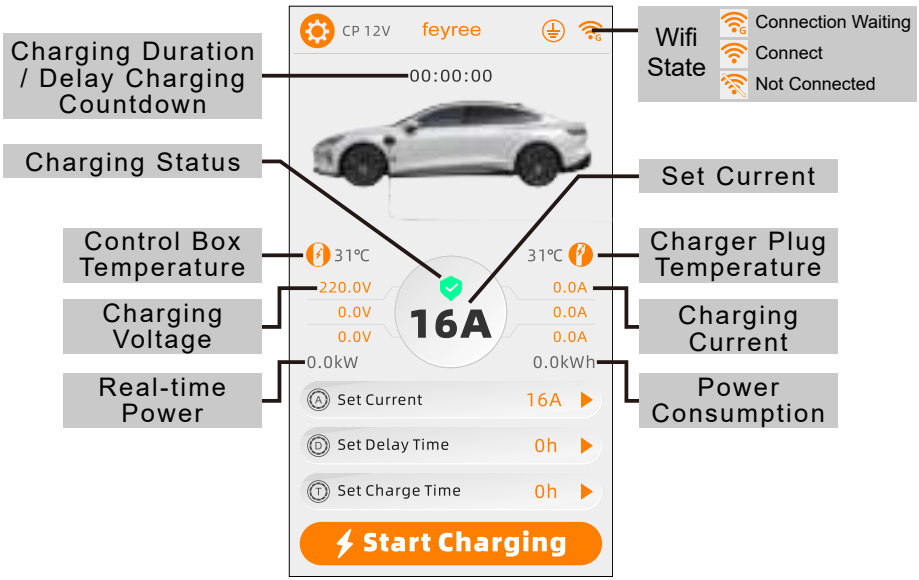

100mm
62mm
227mm

Power Indicator Light

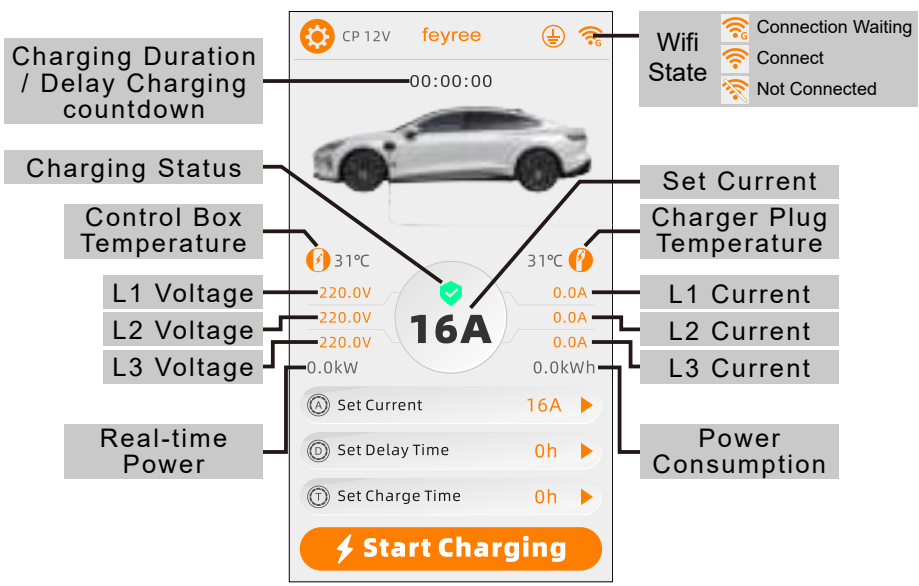
The screen will enter saver mode after 5 minutes of inactivity. Touch the screen to wake the device when needed

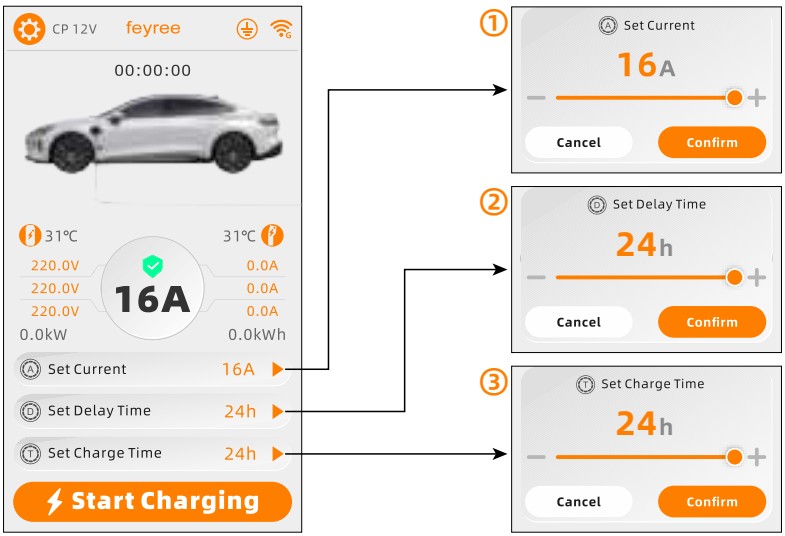
Press the button to start charging press again to stop

3.5kW/7kW



11kW





① Set Current:

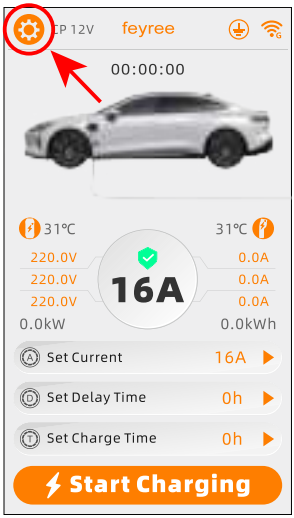
When the charging plug is not inserted in the car, touch "Set Current" on the touchscreen to adjust the charging current,the current setting range is determined by the max charging power of the charger.
3.5kW/11kW:8A...16A adjustable
7kW:8A...32A adjustable.

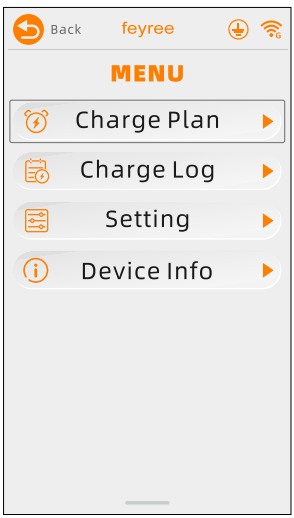
② Set Delay Time:

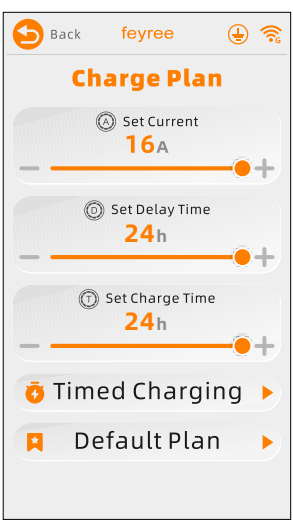
When the charging plug is not inserted in the car,touch“Set Delay Time”on the touchscreen to set the delayed charging time, and the range can be set from 0 to 24 hours.

③ Set Charge Time:

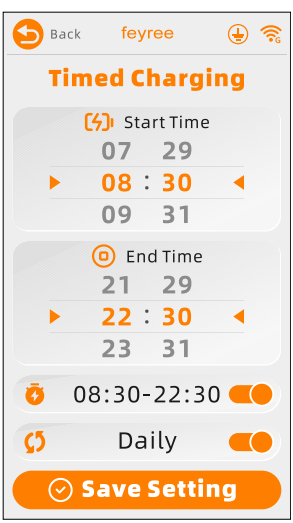
When the charging plug is not inserted in the car,touch“Set Charge Time”on the touchscreen to set the charge time,and the range can be set from 0 to 24 hours.



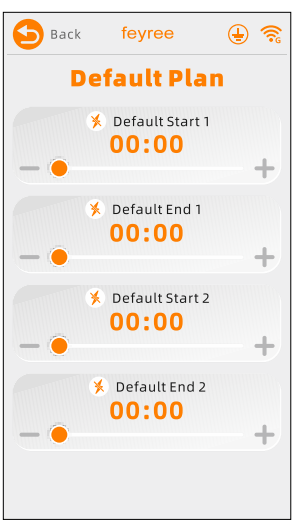




Charging Plan
Set Current : Adjust current
Set Delay Time : Set delay time
Set Charge Time : Set charging time



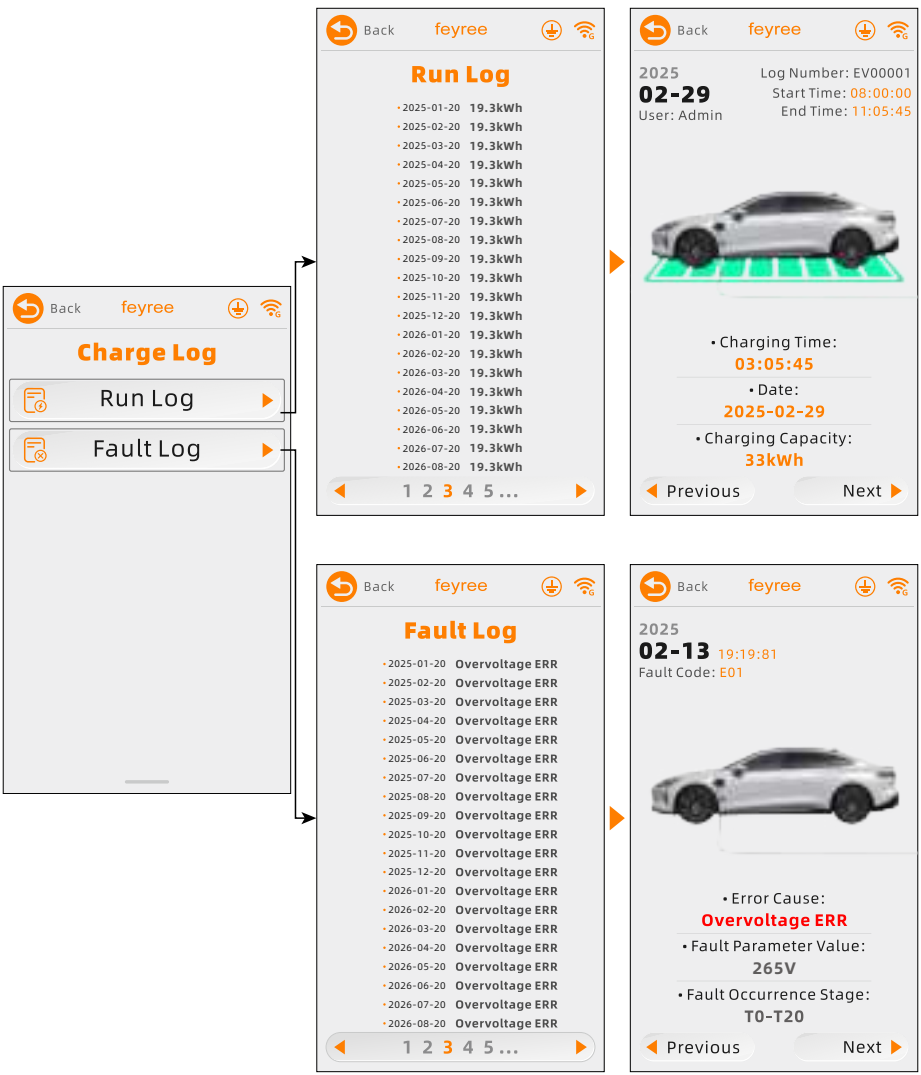
Timed charging
Start Time:Set charging start time
End Time:Set charging end time



Default Plan
Default Start : Prohibit charging start time
Default End : Prohibit charging end time

Charge Log Function

Run Log : Record the charging logs for the past 12 months
Fault Log: Record every charging fault report



Basis Settings

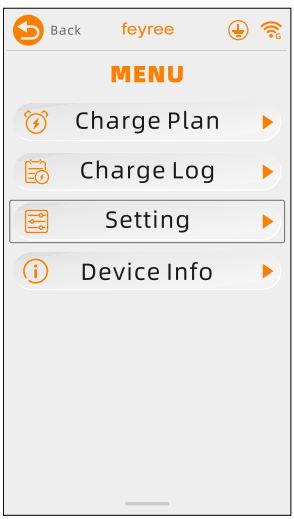
Ground Check : To turn on and off the grounding (PE) detection, please use the charging station in the grounded(PE)state

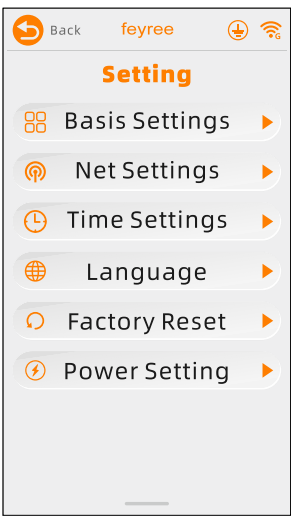
Leakage Check: Turn on and off the Leakage detection. To ensure safe charging,please use the charger in a leakage-protected condition.

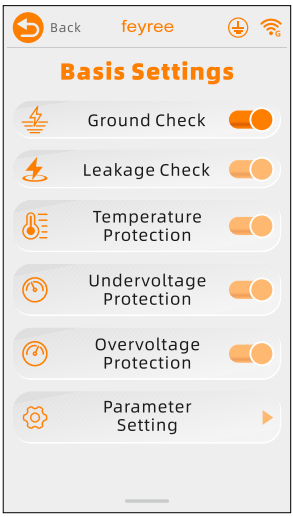
Temperature Protection: Over temperature protection activates when temperature exceeds 85°C

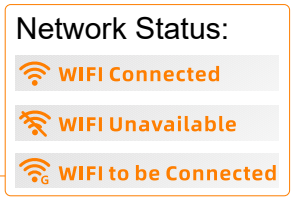
Undervoltage Protection: Undervoltage protection activates when input voltage drops below 85V AC(Each Phase)

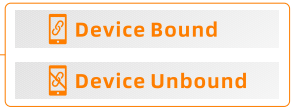
Overvoltage Protection: Overvoltage protection activates when input voltage exceeds 264V AC(Each Phase)

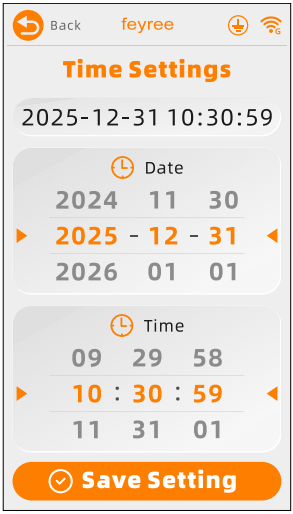


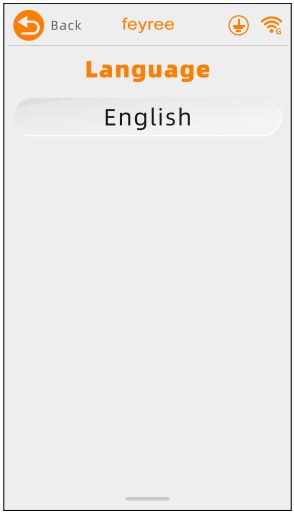


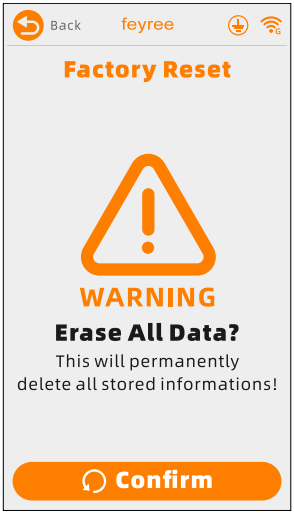






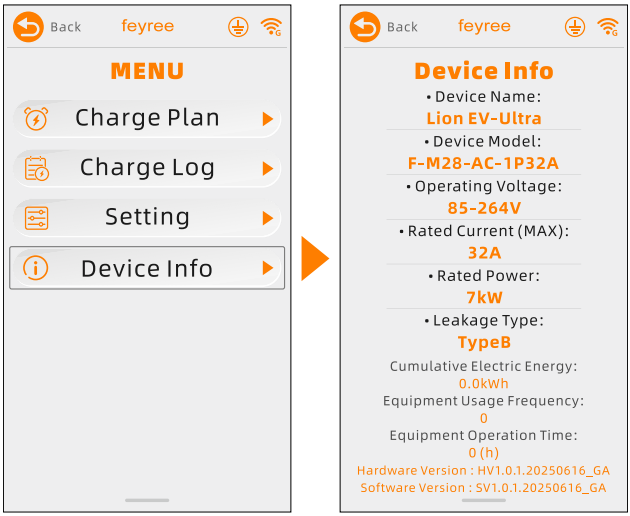




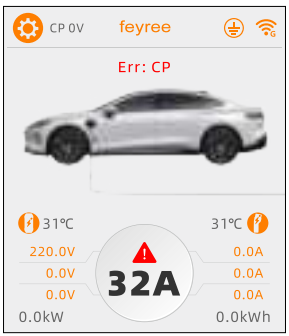


Time Settings

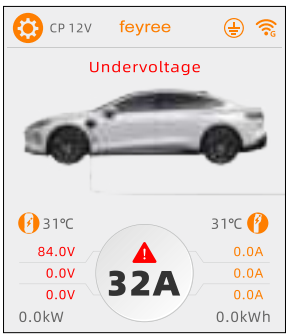
When connected to the network, it will automatically synchronize with the local network


Back
feyree
MENU
Charge Plan
Charge Log
Setting
Device Info
Back
feyree
Device Info
• Device Name:
Lion EV-Ultra
• Device Model:
F-M28-AC-1P32A
• Operating Voltage:
85-264V
• Rated Current (MAX):
32A
• Rated Power:
7kW
• Leakage Type:
TypeB
Cumulative Electric Energy:
0.0kWh
Equipment Usage Frequency:
0
Equipment Operation Time:
0 (h)
Hardware Version : HV1.0.1.20250616_GA
Software Version : SV1.0.1.20250616_GA

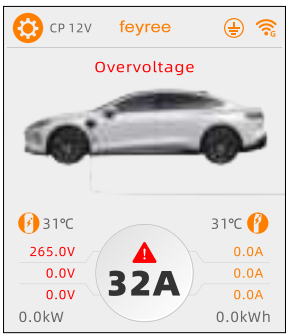
Control Box LCD Display-Error Shows /13/



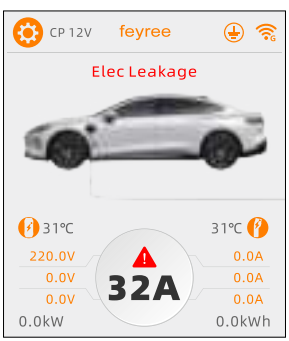
CP Fault



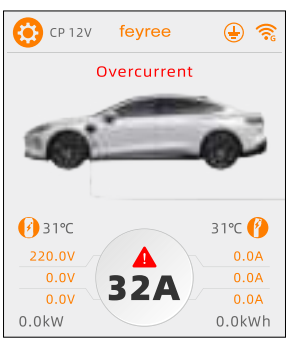
Undervoltage



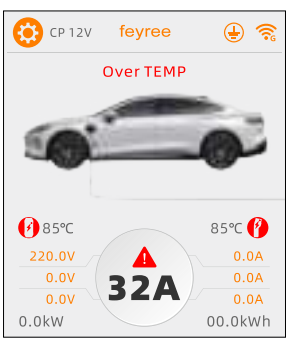
Overvoltage



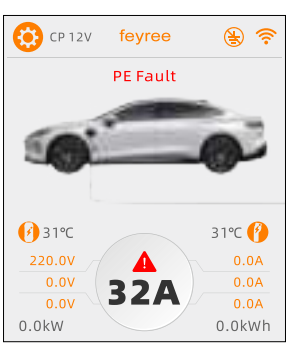
Electrical Leakage



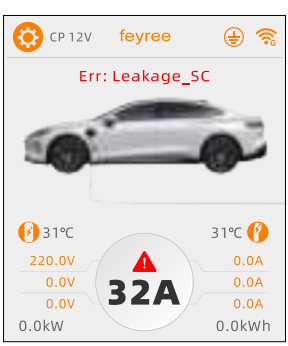
Overcurrent



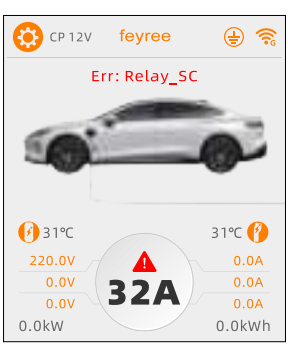
Overtemperature



PE Fault



Leakage Self-Check



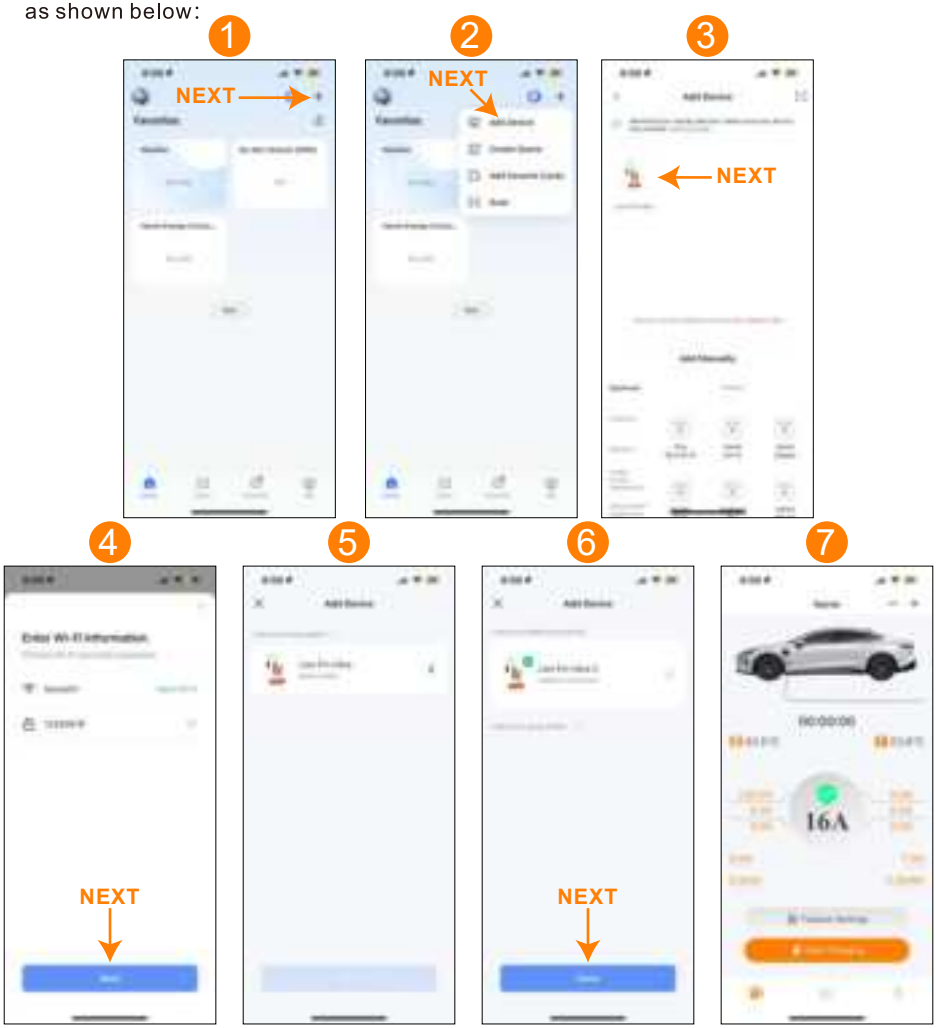
Relay Self-Check

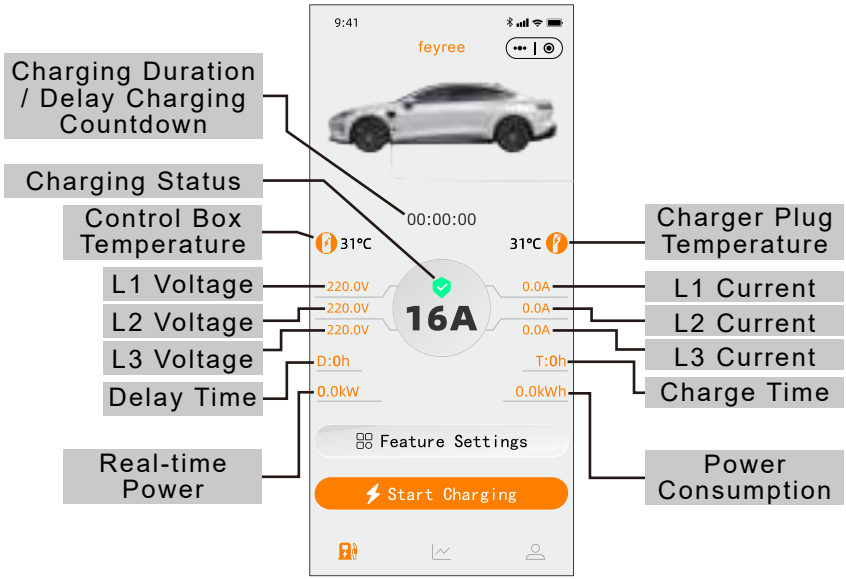
How to use the App (the device needs to have Wifi function, and Bluetooth function)

1.Please download the "Smart Life" (recommended) or the "Tuya Smart" APP on your cell phone. The APP icon as shown above.

Smart life tuya smart

2. After downloading, open the app, turn on your phone WiFi and Bluetooth, select Add Device, and follow the instructions to complete Add a new device, as shown below:




Charging Duration / Delay Charging Countdown
Charging Status
Control Box Temperature
L1 Voltage
L2 Voltage
L3 Voltage
Delay Time
Real-time Power
9:41
feyree
00:00:00
31℃
31℃
220.0V
220.0V
220.0V
16A
0.0A
0.0A
0.0A
D:0h
T:0h
0.0kW
0.0kWh
Feature Settings
Start Charging
Charger Plug Temperature
L1 Current
L2 Current
L3 Current
Charge Time
Power Consumption


Plug-and-Charge
Save
Cancel

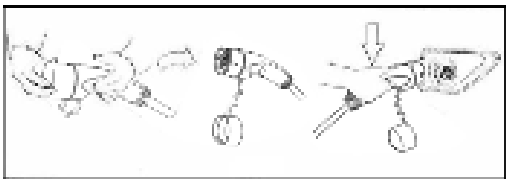

Energy Analysis
2025-11-19
2025-11-15
2025-11-17
2025-11-24
2025-11-26


Cancel
Save


Energy Analysis
Fault Stop

Plug in the charging connector

Connect the charging plug to the EV (Start Charging)



END CHARGING

PLAN A

The charger will automatically stop charging when the car is fully charged,and it can be directly unplugged then.

PLAN B

Turn off the power switch to end charging
(then unplug the charger)

PLAN C

Stop charging from the electric vehicle： Usually there is a stop charging button or switch in the car, touch or press to stop charging. Then unplug the charger plug.

PLAN D

Click "Stop charging" on the app, and then pull out the charger plug.

PLAN E

Press the button on charger box to stop charging ， then pull out the charger plug.

3.5kW/7kW Control Box

hardware component		
Key type	Trigger event	Delay Time
Key for adjusting current	Set the maximum current limit, A total of 8-32A twenty four limits	0. 1s

Software part			
Status type	Set value	Action status	Delay Time
Charging control	Detection point 1 voltage value: 6±0.8V	The relay closes and enters the charging state	0. 1s
	Detection point 1 voltage value: 9 ± 0.8V	Charge completed, relay disconnected	0. 1s
	Detection point 1 voltage value: 12 ± 0.8V	Socket not connected, relay disconnected	0. 1s
	Detection point 1 voltage value: others	Communication failure, relay disconnected	0. 1s
Overvoltage and undervoltage	Line voltage > 264V	The relay is disconnected, and the relay is closed when it drops to 254V, infinite cycle	
	Line voltage ≤ 85V	The relay is disconnected, and when it rises to 95V, the relay is closed, infinite cycle	
	Line voltage within 85~264V	The relay is closed and enters the charging state	1s
	The user sets charging current IE and line current I.when ie+8>i>ie+4, it lasts for 5S	The relay is disconnected, and it will automatically recover after 10s. If it still has overcurrent after 3 cycles, it will be permanently disconnected	5s
	The user sets charging current IE and line current I. when i>ie+8, it lasts for 1s	Relay permanently disconnected	1s
The leakage	Leakage is greater than the following values: TypeB: AC 30mA+DC 6mA	The relay is disconnected and recovers automatically after 5min	1s
	The line has no leakage	The relay closes and enters the charging state	0. 1s
Electricity self-inspection	Self-checking normal	The relay closes and enters the charging state	1s
	Self-checking failure	Relay cut off	0. 1s

11kW Control Box

hardware component		
Key type	Trigger event	Delay Time
Key for adjusting current	Set the maximum current limit, A total of 8-16A eight limits	0. 1s

Software part			
Status type	Set value	Action status	Delay Time
Charging control	Detection point 1 voltage value: 6±0.8V	The relay closes and enters the charging state	0. 1s
	Detection point 1 voltage value: 9 ± 0.8V	Charge completed, relay disconnected	0. 1s
	Detection point 1 voltage value: 12 ± 0.8V	Socket not connected, relay disconnected	0. 1s
	Detection point 1 voltage value: others	Communication failure, relay disconnected	0. 1s
Overvoltage and undervoltage	L1 Line voltage > 264V	The relay is disconnected, and the relay is closed when it drops to 254V, infinite cycle	
	L1 Line voltage ≤ 85V	The relay is disconnected, and when it rises to 95V, the relay is closed, infinite cycle	
	L1 Line voltage within 85~264V	The relay is closed and enters the charging state	1s
Overcurrent-protection-ie=8,10,13, 16,20,25,32A	The user sets charging current IE and line current I.when ie+8>i>ie+4, it lasts for 5S	The relay is disconnected, and it will automatically recover after 10s. If it still has overcurrent after 3 cycles, it will be permanently disconnected	5s
	The user sets charging current IE and line current I. when i>ie+8, it lasts for 1s	Relay permanently disconnected	1s
The leakage	Leakage is greater than the following values: TypeB: AC 30mA+DC 6mA	The relay is disconnected and recovers automatically after 5min	1s
	The line has no leakage	The relay closes and enters the charging state	0. 1s
Electricity self-inspection	Self-checking normal	The relay closes and enters the charging state	1s
	Self-checking failure	Relay cut off	0. 1s

Fault name	Reason for failure	Recommendations
OverVoltage	AC input voltage is too high	1. Ask an electrician measure the input voltage of the charger's power distribution box
		2. If the actual voltage is over 264V for a short time, wait for the power system to restore itself to the normal voltage range.
		3. If the actual voltage is over 264V for a long time, please contact the local power supply department
		4. If the actual voltage of the electrical system in your home is less than 264V, please contact us;
UnderVoltage	AC input voltage is too low	1. Ask an electrician measure the input voltage of the charger's power distribution box
		2. If the actual voltage is less than 85V for a short time, wait for the power system to restore itself to the normal voltage range.
		3. If the actual voltage is less than 85V for a long time, please contact the local power supply department
		4. If the actual voltage of the electrical system in your home is over 85V, please contact us;
OverCurrent	AC input current is too high	1.Cut off the power of the charger's power distribution box right away
		2.Check the charging plug for foreign objects and the car's on-board charger for abnormalities
		3.After troubleshooting the above problems, reconnect the power supply, if the fault still exists, please contact us
Over TEMP	Charger or charger plug internal temperature greater than 85°C	1.Check that there is no other heat generating equipment or devices next to the charging station and make sure that the ambient temperature is below 50°C.
		2.If the problem cannot be solved, please contact us
Elec leakage	Leakage is greater than the following values: TypeB: AC 30mA+DC 6mA	1.Cut off the power of the charger's power distribution box right away
		2.Check the charging plug for foreign objects and check the car for electrical leakage
		3. After troubleshooting the above problems, Reset leakage protector, reconnect the power supply, if the fault still exists, please contact us
Leakage self check	The sensor for detecting leakage is abnormal	1.Cut off the power of the charger's power distribution box right away
		2.Check whether the output cable of the charging station is broken or connected to ground
		3.After troubleshooting the above problems, reconnect the power supply, if the fault still exists, please contact us
PE Fault	Poor grounding or incorrect wiring	1.Cut off the power of the charger's power distribution box right away.
		2.Check if the charging station is grounded properly.
		3.After troubleshooting the above problems, reconnect the power supply, if the fault still exists, please contact us
Err:cp	Charging plug CC/CP connection abnormality	1.Check if the wiring of the charging plug is correct
		2. After troubleshooting the above problems, if the fault still exists, please contact us

Customer Service Team

E-mail: tina@feyree.com

Warranty

Two-Year Warranty

feyree offers two-year warranty to customers who make purchased original feyree product.

Lifetime Technical Support

In case of any product-related issues, we encourage you to reach out to us, providing pictures and videos for further assistance.

Exclusions

The warranty does not cover:

- Any product damage resulting from failure to follow the recommended guidelines.
- Damage caused by unauthorized disassembly of the machine or seeking maintenance from a non-designated service center.
- Purchased not original feyree products.
- Any modifications or do-it-yourself alterations carried out without guidance from a licensed electrician.

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:(1)This device may not cause harmful interference; (2) this device must accept any interference received,including interference that may cause undesired operation.

Note:This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.This equipment generates and uses can radiate radio frequency energy, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following
measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

Note:The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance.such modifications could void the user's authority to operate the equipment.

The device has been evaluated to meetgeneral RF exposure requirement.
To maintain compliance with FCC's RF exposure guidelines, the distance must be at least 20cm between the radiator and your body,and fully supported by the operating and installation configurations of the transmitter and its antennas.

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