APP Function Manual



V1.0

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1. Download and install

Android phone users can search and install "DS charge" through Google play. Iphone users can search and install "DS charge" through the APP store.



IOS APP

Android APP

Note: All APP functions require charging station to be connected to the router and

connected to the Internet.

2. Register

When the user first visits, the user registration is performed by the following steps.

(*)	Register
	Enter email address
Enter email address	Enter password
Enter password Forget password?	Enter password again
Login	Register
No account yet? GoRegister	Have account? Go Login

Users will then receive an email to activate their account.

3. Login APP

	Ce
	Enter email address
A I	Enter password
	Forget passwo
	Login

Please use your account and password to log in.

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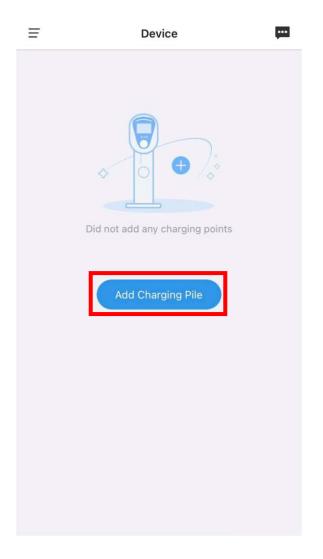
4. Forget password

	Forget password?
Enter email address	Enter email address
Enter password	Retrieve
Forget password?	
Login	
No account yet? GoRegister	

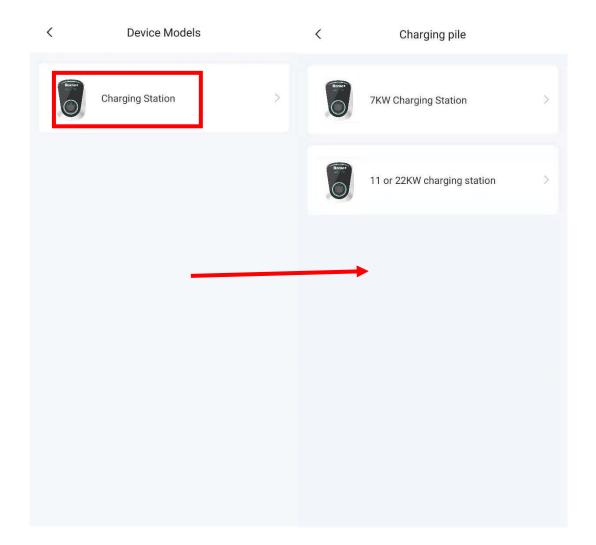
Press "Forget password", and then you will receive an email to change your password.

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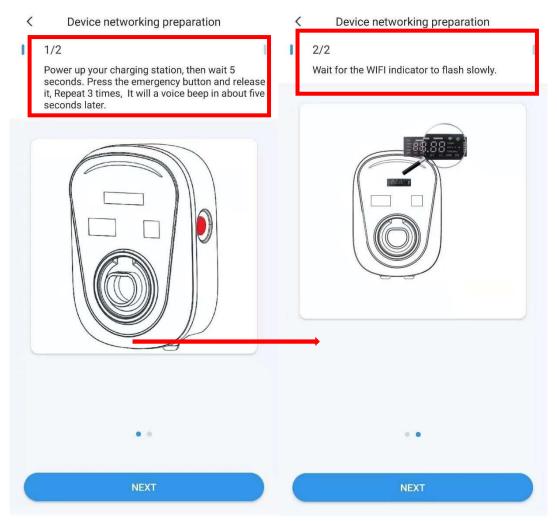
5. Add charging station



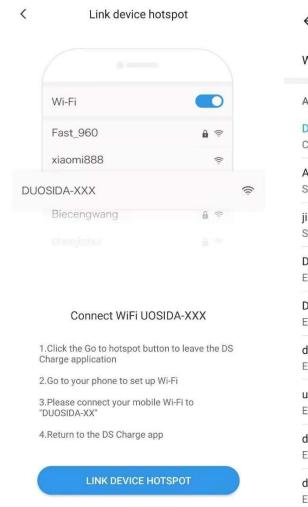
Press "Add charging station" icon



Select charging station, then select "7KW charging station" or "11 or 22KW charging station" to add your charging station.



Link Wi-Fi network share wift password to device drwi-Fi@#B#### ASUS-EVSE-Test Enter WiFI password OK, CONTINUE Select the WiFi SSID to which the charging station will connect to the router, and enter the password.



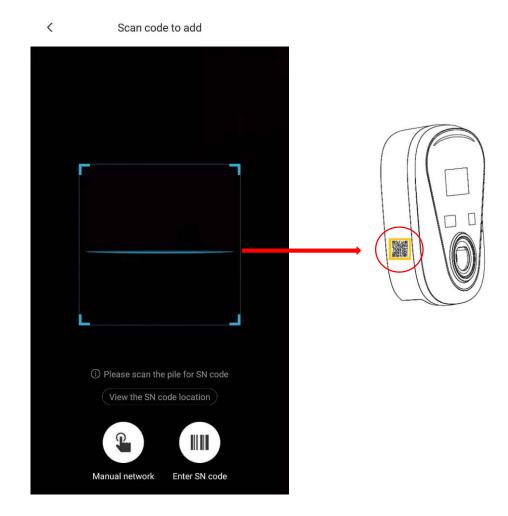
Connect to charging station WiFi.

Password: 'duosida@cp'

/	MALLANI	
~	WLAN	

WLAN AVAILABLE NETWORKS DUOSIDA_20170436 ? Connected (no Internet access) ASUS-EVSE-Test Saved, encrypted (good quality) jishubuzhuangyong 3 Saved, encrypted (good quality) DIRECT-GDLAPTOP-921CFVC3mscs 3 Encrypted (WPS available) DIRECT-TALAPTOP-II44IVK4msWr ? Encrypted (WPS available) dongshizhang **?** Encrypted uchen-b4f **?** Encrypted daizong ? Encrypted dakehu -Encrypted

••••

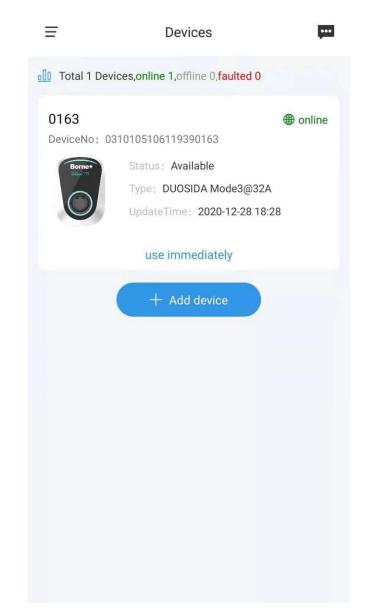


Scan charging station SN code.

		<	DS Charge
ConfigNetworking			I
Borne+ Barner of the			ConfigNetworking
Initializing	0		
Loading finished try to connect		\sim	Charging pile name
Distribution network success			
Cancel			Start experience

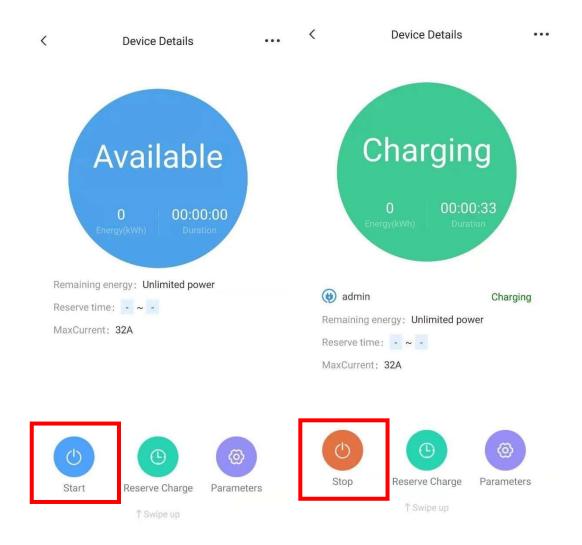
It will take about 2 minutes to configure the network. After success, name the charging station.

6. List of charging station



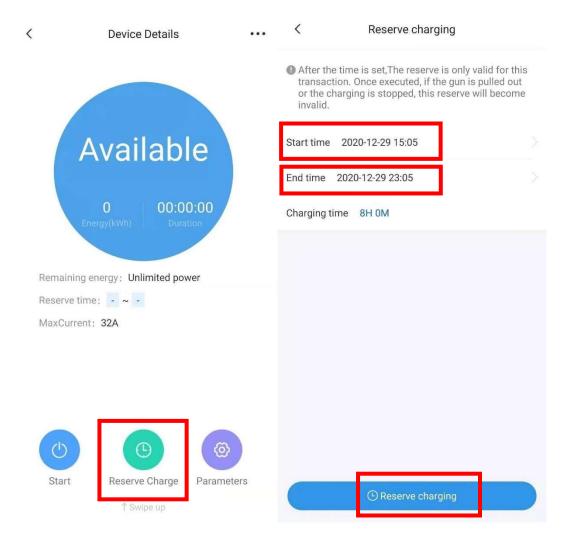
Successful charging station will appear in this area.

6.1 Start and stop charging



You can use the APP to start and stop charging remotely.

6.2 Reserve charge



Press "Reserve Charge" into setting page, then select the start time and end time,

Press "Reserve charging" to confirm.

7. IC card activated charging



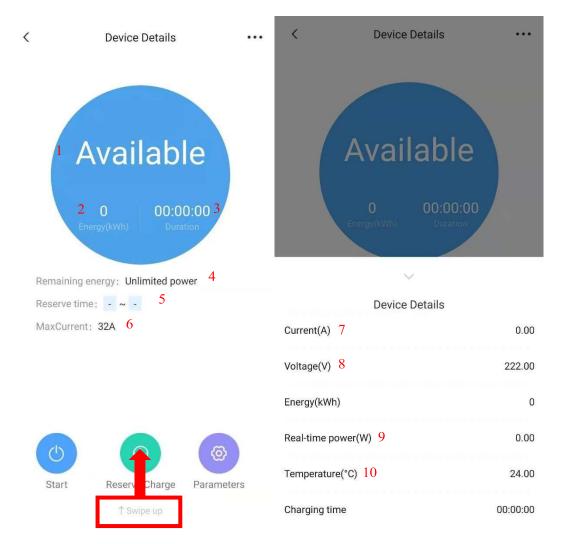
1 Plugging the connector into the vehicle socket.

2 Swing IC card and start charging.

Note: See Chapter 12 for IC card setup. And close "plug then charge mode".

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8. Device details



- 1 State of charging station. 2 Energy of charging.
- 3 Time spent on the current charging plan. 4
- Remaining available power(kWh) of user.
- 5 Display start and end time of reserve charge.
- 6 Max charging current. 7 Current of charging.
- 8 The voltage of charging station.
- 9 Current charging power. 10 Internal temperature of charging station.

9. Parameter setting

<	Device Details	•••	<	Pile Parameter Setting	
			Working C	urrent	32 A >
	Avoilabl		Plug Then	Charge Mode	
	Availab 0 00:00 Energy(kWh) Durat	0:00			
Remai	ning energy: Unlimited pov	/er			
Reserv	ve time: - ~ -				
MaxCu	urrent: 32A				
(¹) Star		Parameters			

Working current: Sets the maximum allowable charge current.

Plug then charge mode: Users can charge directly after plug the charging connector in vehicle.

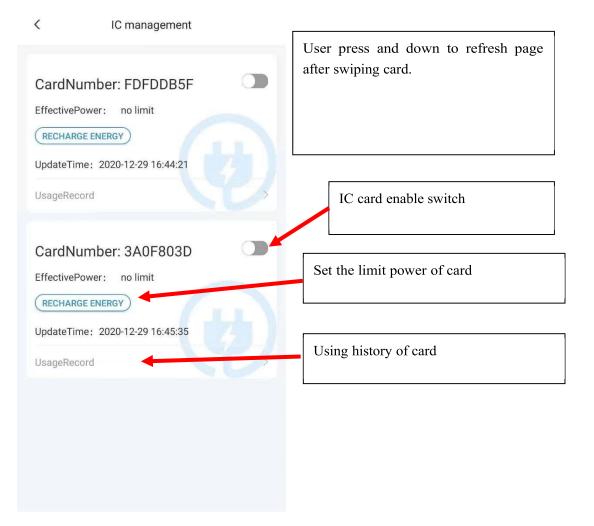
10. Function setting

<	Device Details	•••	<	Function setting	
			Charge Record	1	>
			Device name	2	>
	Available		IC management	4	>
			Firmware update	3	>
F	0 00:00:00 Energy(kWh) Duration Remaining energy: Unlimited power				
F	Reserve time : - ~ -				
Ν	MaxCurrent: 32A				
	Image: Start Image: Start	ers			
	↑ Swipe up			DELETE DEVICE	

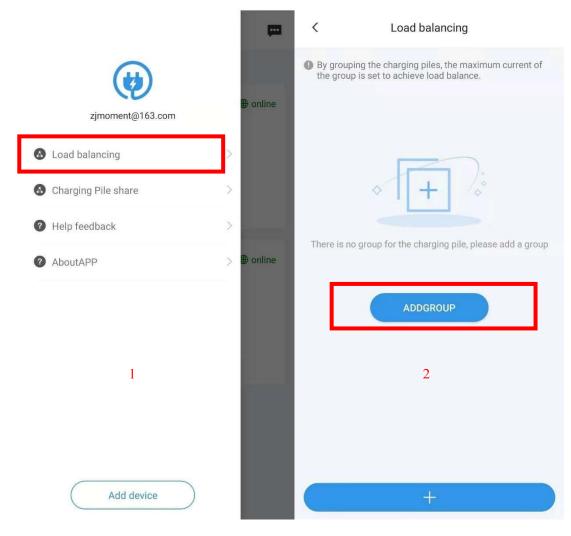
- 1 User can see the charging history.
- 2 User can rename the charging station.
- 3 User can check the charging station firmware update. 4 IC management



Swipe the IC card on the orange area of the charging station.

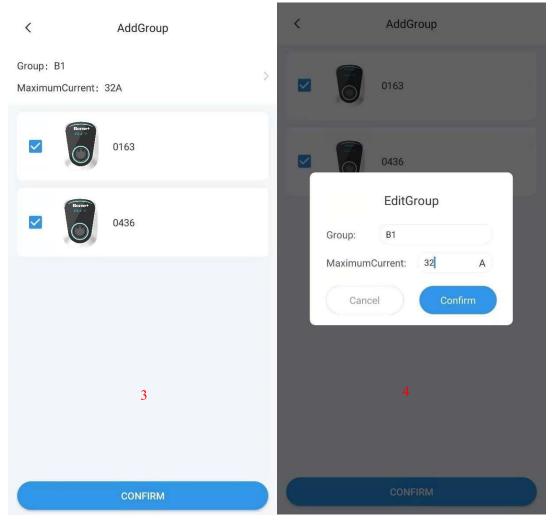


11. Load balancing

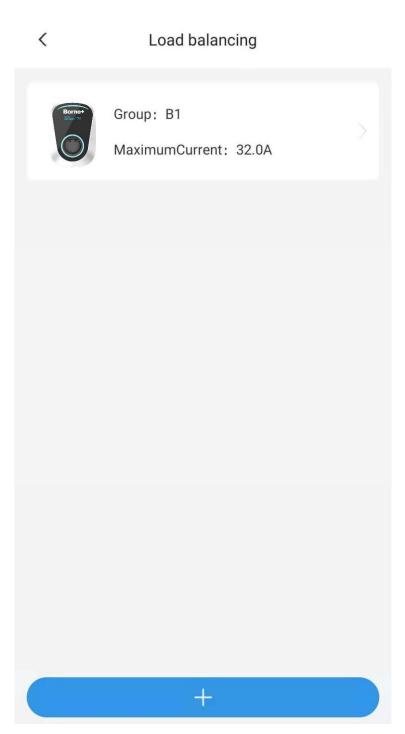


Step 1: Select the Load balancing in APP menu.

Step 2: Press the ADD GROUP.

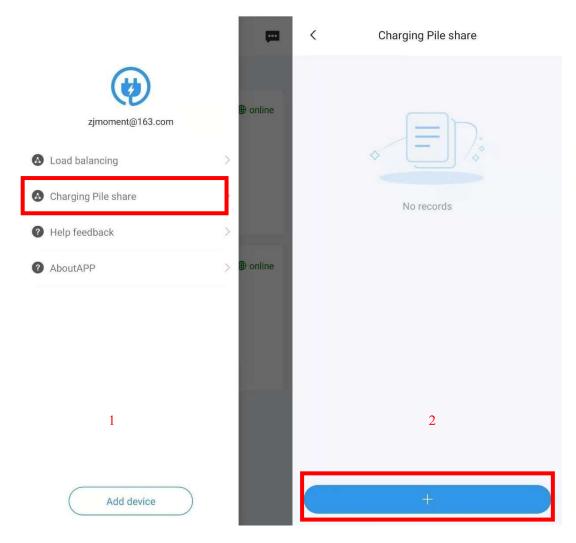


- Step 3: Select the required load balanced charging stations.
- Step 4: Set Group name and Group Max current.



When multiple charging stations in the group are charged at the same time, The charging stations will distribute the current equally, if total current of the charging stations reaches the group limit max current.

12. Charging station share



Step 1: Press charging station share in APP menu.

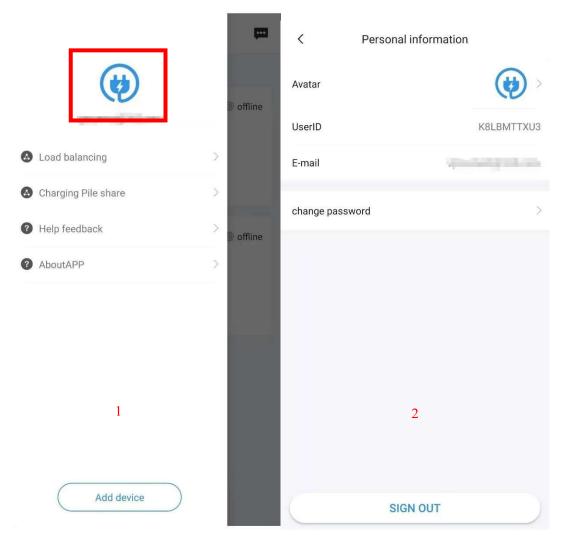
Step 2: Press symbol +.

<	sharing		<	Charging Pile share	
Email Enter use	r mailbox to share		Shared u	sers	
Energy limit			🧑 zhou	jian@uchen.com.cn	100.0Kwh >
Energy limit ple	ase input share electric quantity	kWh			
Share pile					
	0163	>			
	0436	>			
	3			4	
	SHARE			+	

Step 3: Fill in the sharing user's e-mail, Select charger station to share. And it can limit the amount of energy users can charge.

Step 4: Completed sharing.

13. Personal information



Step 1: Press the icon from the menu to enter personal setting.

Step 2: User can change the Avatar and password in this page.

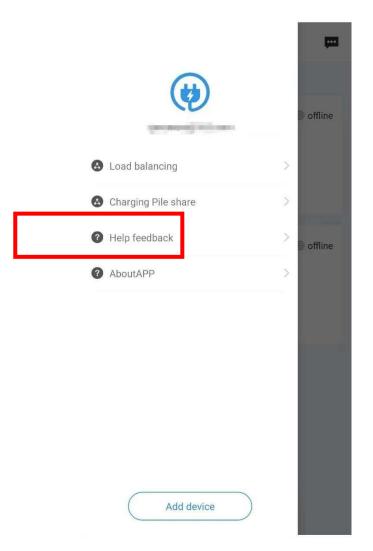
14. Message center

≡	Devices		•••	
📶 Total 1 Devi	ices,online 1,offline 0,rauted 0			
0163 DeviceNo: 03	DeviceNo: 0310105106119390163			
	use immediately			
	+ Add device			

The message center contains system messages and feedback.

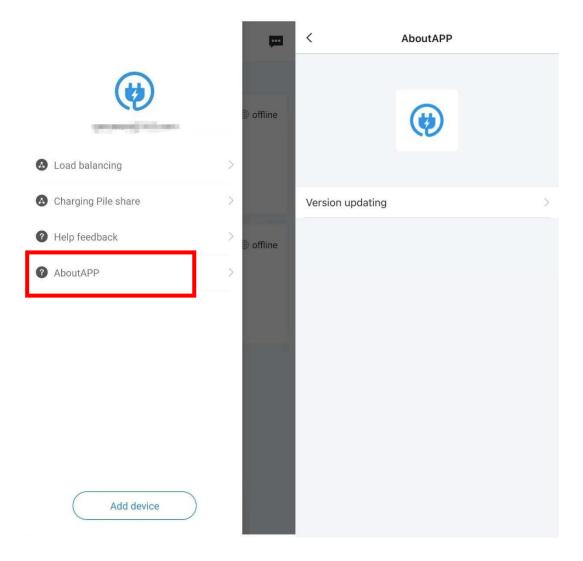
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15. Help & feedback



The FAQ and user's manual can be found here, and user can feedback questions.

16. About APP



User can check software updating information in this page.

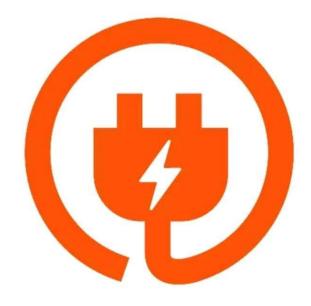
Smart charge APP Function Manual

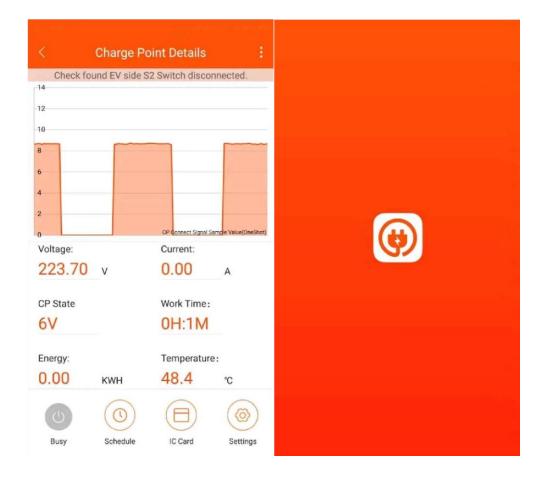




1. The APP

You can find the APP "Duosida Charger" in your App- or Play-Store.





2. Connection

After installing the APP, please turn on the EV Charger.

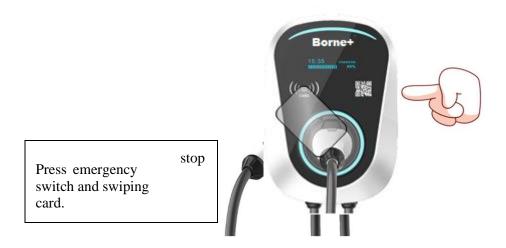


*1: After the charger is turned on, the circular indicator light and the arc indicator light turn red. At this time, the charger needs to be unlocked with the mobile phone APP.

2.1 WiFi-Setting Mode

2.1.1 IC-Card

Use the IC-Card to get into the WiFi-Setting Mode. Please power on again and enter WiFi Configuration Mode in 2 minutes.

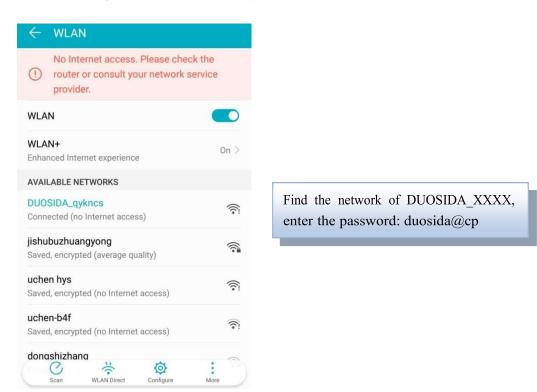


2.1.2 Emergency Stop Switch



Or use the emergency stop switch to enter WiFi configuration mode.

Use your smart phone to connect the charger's WiFi

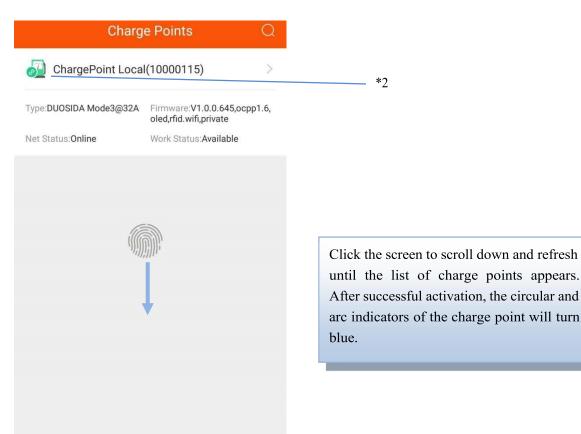


Note: After being connected to the WiFi network of the charger, the mobile phone may prompt that it cannot connect to the Internet and keep the current connection.

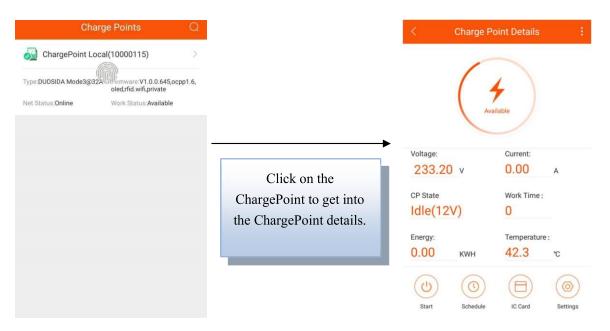


3. Functions

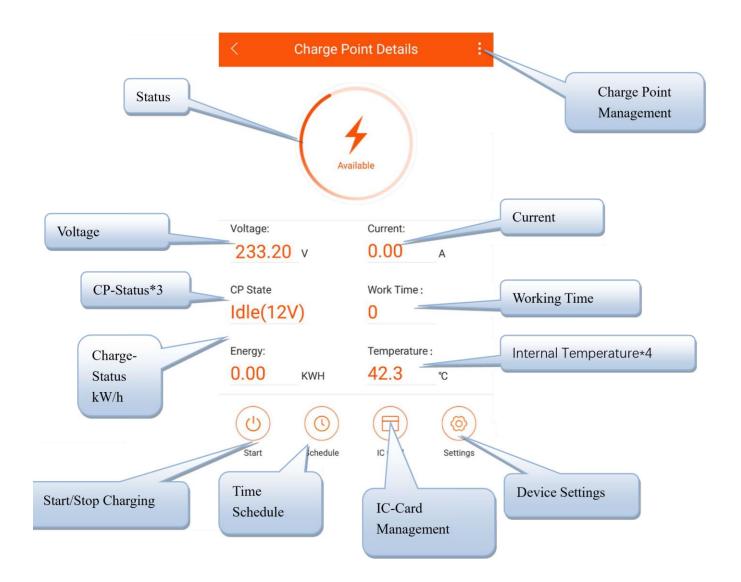
3.1 Selection of the EV Charger



*2: If red appears here, please scroll down again to refresh.



3.2 Details for the EV Charging Station



*3: Idle is for standby status, 9V is for prepare charging, and 6V PWM is for charging status.

*4: This temperature is for the internal chip temperature; it is around 15 °C higher than the internal environment.

3.3 The Charging Procedure

1. Plug the charging plug into the electric vehicle charging socket.

2. Use the APP to enter the charging details page, and click the start charging button or use the IC card to start charging.

< c	< Charge Point Details :				
Available					
Voltage:		Current:			
233.20	V	0.00	A		
CP State		Work Time :			
Idle(12V))	0			
Energy:		Temperature :			
0.00	KWH	42.3	°C		
(U) Start	Schedule	IC Card	() Settings		

3. Click the stop charge button in the APP or use IC to stop charging.

Note: If you use the APP to start charging, then you need to click the stop button in the APP when you want to stop charging (the EV will automatically stop when it is fully charged), and you must use the IC card to stop charging when you start charging by IC.

3.4 Time Schedule Setting

ring ↑ Priority: 1 > Aug 11,2018 09:27 AM Aug 26,2018 09:27 AM Add New Schedule Profiles Add New Schedule Profiles
Aug 11,2018 09:27 AM Aug 26,2018 09:27 AM Add New Schedule Profiles End Time Sat,Aug 11,2018 09:29 AM
Aug 26,2018 09:27 AM Start Time Sat,Aug 11,2018 09:29 AM End Time Sat,Aug 11,2018 09:29 AM
Add New Schedule Profiles End Time Sat,Aug 11,2018 09:29 AM
End Time Sat,Aug 11,2018 09:29 AM
Priority Setting
Priority Setting

There are three types of time schedules possible:

- 1. Absolute
- 2. Relative
- 3. Recurring

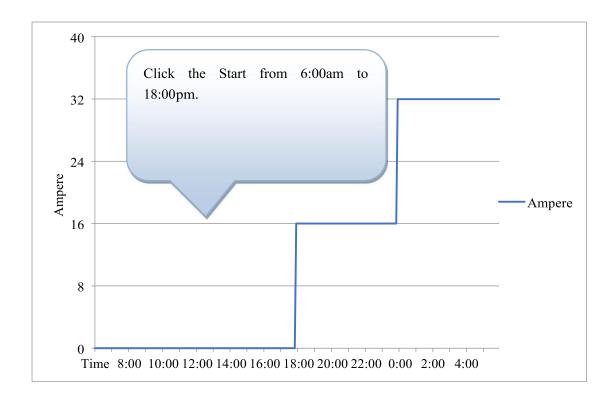
1. Absolute:

During the time period of the task, the EV Charger performs the charging according to the set time point. Example:

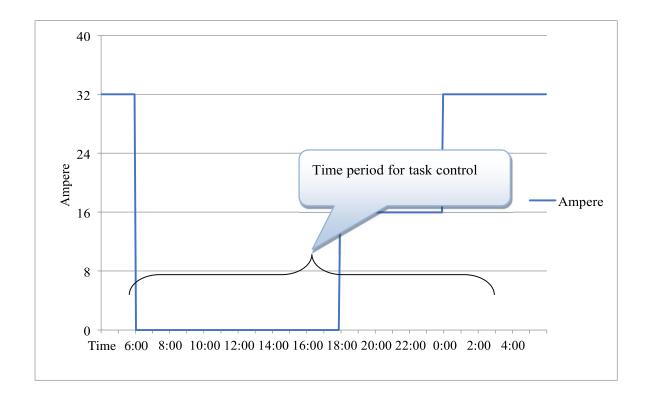
\langle Schedule S \rightarrow \mapsto	Setting Submit	4. Send the time schedule to the ChargePoint.
Absolute Relativ	e Recurring	1. Set the task start time.
Start Time Tue,Oct 23,2018 06:00 AM		2. Set the task end time.
Wed,Oct 24,2018 06:00 AM		
Priority Setting	6 >	Priority: The smaller the number, the higher the priority task.
At Start	Close	3. Click the "+" to add the schedule for charge.
12Hour Later	16.0A >	Current can set the MAX charging current. If write "0" it
18Hour Later	32.0A >	will stop charge during this time, to write "1" is bypass (the schedule does not to manage charge point during this time).
< Charge Poir		
Voltage: 233.20 v	Current: 0.00 A	
CP State	Work Time :	
Energy: 0.00 KWH	Temperature : 42.3 °C	5. Click the Start Button to enable the task.
(U) Start Schedule	IC Card Settings	

Clicking on the start time will affect the actual charging chart.





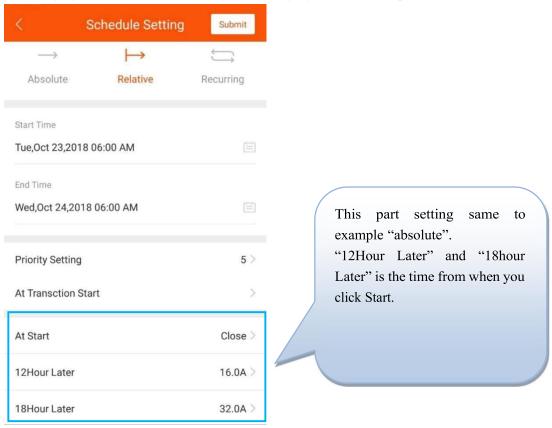
The task activated between start time and end time only. If you click the Start at 4:00AM, the charger will work at default 32A.

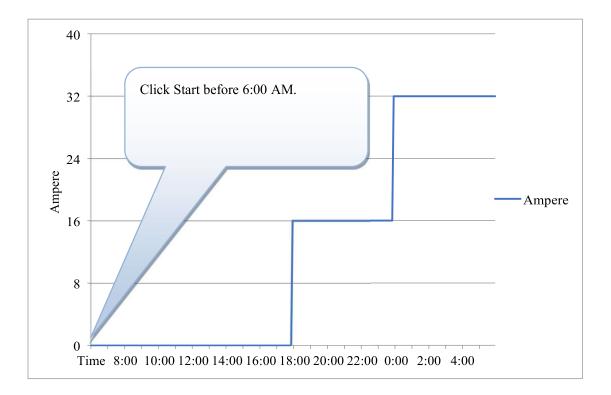


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2. Relative

The charging chart is based from start time of charging session. Example:





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3. Recurring

The loop execution can be set to cycle by day or cycle by week.

Example:

You want to charge from 8pm to next day 6pm on Mondays to Fridays, and all day on Saturdays and Sundays. We can to set to two Recurring tasks.

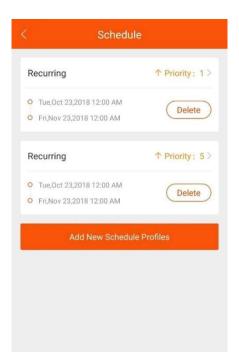
The first task:

<	Schedule Setting	Submit
\rightarrow	\mapsto	Ĵ
Absolute	Relative	Recurring
Start Time		
Tue,Oct 23,2018	12:00 AM	
End Time		
Fri,Nov 23,2018	12:00 AM	
Priority Setting		5 >
Recurring Kind	Week(Start Fre	om Monday) >
After Monday 00	0:00:00	Bypass >
After Monday 18	3:00:00	32.0A >
After Tuesday 0	6:00:00	Bypass >

Bypass >
32.0A >
Bypass >
32.0A >
Bypass >
32.0A >
Bypass >

The second task:

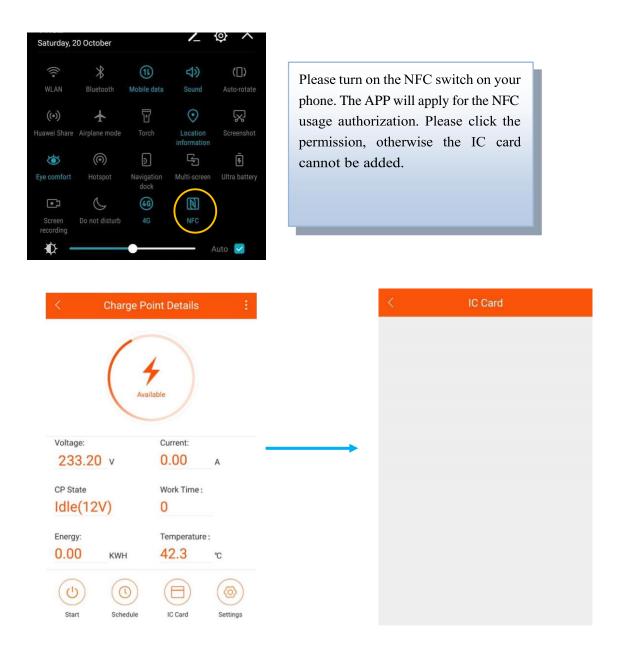
< Sc	hedule Setting	g Submit
\rightarrow	$ \rightarrow$	ţŢ
Absolute	Relative	Recurring
Start Time		
Tue,Oct 23,2018 12	2:00 AM	
End Time		
Fri,Nov 23,2018 12	:00 AM	
Priority Setting		1 >
Recurring Kind	Week(Start	From Monday) >
After Monday 00:0	0:00	Bypass >
After Saturday 00:0	00:00	32.0A >



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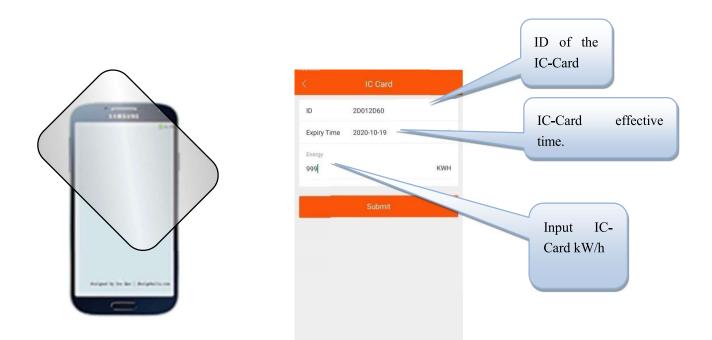
4. IC-Card Management System

For mobile phones that support NFC, special IC CARDS can be added to the IC card management system of the APP. The IC card's ID, effective time, maximum power and among them, the maximum available power information is stored on IC card. The other information is stored in the cache of charger.



Drücken Sie auf "IC-Karte", um in die Einstellungszeit der IC-Karte zu gelangen.

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Place the IC card that needs to be added near the NFC module of the phone. After reading the information of IC card, the setting window will pop up. Set the kWh and click ok to add. If there is no response, please change a few more areas to stick, or ask the mobile phone manufacturer to confirm the location of the NFC module.



1. The charger owner use the APP to issue the cards to the user according to the user's demand, and sets the kWh limit of IC card according to the need.

- 2. The owner of the EV Charger decides which chargers can be used and which chargers can not be used for the IC card set (all Settings are for offline storage, the electricity information is saved on the IC card, and the authentication information is saved on the charger).
- 3. Please use the specified IC card to the corresponding charger, and the card starts charging. When the charge is completed, the charge can be stopped by swiping the card again. If you don't want to charge, you can cancel the current charge by simply swiping the card.
- 4. When charging is completed, the user needs to swipe the card to end the charging, and the charged kWh on the card will be deducted from the charging process.
- 5. When the balance of kWh on the card is insufficient, the user needs to asj the owner to add the kWh power.

Note: Under this mode, the charger can not be open "Plug then charge mode" and the "Stop transaction on EV side disconnect" function can not be stopped by pulling the connector.

5. Charger Status

There are 9 states of chargers. The current status information will be displayed on the corresponding screen. Here is an explanation of 9 working states:

Name	explanation				
Unavailable	The charger is in an unusable state, under which the charge				
	cannot be charged:				
	1. Charger is unavailable after power on, and needs to be activated by mobile APP.				
	2. In the upgrade state, WIFI will be switched to unavailable.				
Available	The charger is in an idle state, in which the user can operate the charger.				
Preparing	 The charger is in the state of preparing charging. The following situations will trigger the charger to enter the state of preparation. If the charger enters the state of preparation without charging, it will return to the state of availability or charging completion after timeout: 1. The charger will enter the preparation state when the charger is inserted, but it still needs user authentication to start charging (except the open plug-in and charging mode). The timeout period for the plug-in waiting for authentication is 120 seconds, which can be configured in the APP; 				
	2. The phone will start charging remotely. If the user does not have in the plug, than it will wait for the user to put it in;				
	3. Swiping the card when no plug inserted into the vehicle.				
Charging	When all charging conditions are met, the charger will enter the charging state.				

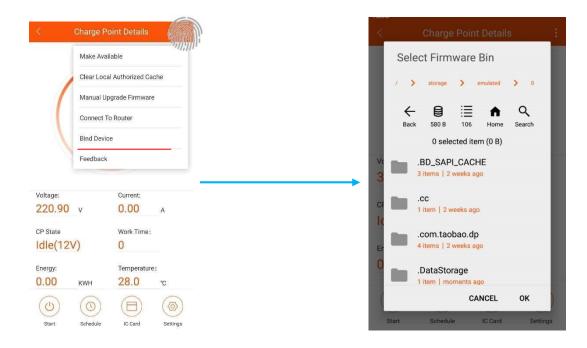
SuspendedEVSE	When the working conditions of the charger are not satisfied, the charger will enter the state of SuspendedEVSE, and	
	SuspendedEVSE and will be triggered in various cases:	
	 The Charger enters protection conditions, such as over voltage, over current, over temperature, leakage, emergency stop, etc.; 	
	2. In the charging process, the scheduling condition is	
	not satisfied, resulting in the active suspension of SuspendedEVSE.	
SuspendedEV	SuspendedEV mainly occurs when the S2 switch of the EV is not closed.	
Finishing	1. In the state of preparation, the charger will enter the state of charging completion if the plug is inserted and the device has timed out;	
	2. The charging state will be entered after charge finished	
Reserved	No support, not applicable to current charger.	
Faulted	Charger error occurred.	

6. Settings

	oint Details		< Device Setting	
1			Max Work Current	32 A >
()	ulable .		Device Max Work Temperature	90 °C >
	lable		Max Work Voltage	280 V >
Voltage: 233.20 v	Current: 0.00 A		Mininal Work Voltage	80 V 🚿
CP State	Work Time :		Plug Then Charge Mode	
Idle(12V)	0		Use Self-Defined Energy Card	
Energy: 0.00 KWH	Temperature : 42.3 °C		Connection Time Out (seconds)	120 S >
Start Schedule	IC Card Settings		Stop Transaction On EV Side Disconnect	
		Maximum op	perating temperature: th	e maximum operat
Device Settin		Maximum wo	of the charge point is set. orking voltage: set the ma	
x Work Current	32 A >	Maximum wo	of the charge point is set.	
x Work Current rice Max Work Temperature		Maximum we voltage of the Minimum w	of the charge point is set. orking voltage: set the ma	aximum working
x Work Current rice Max Work Temperature x Work Voltage	32 A > 90 °C /	Maximum we voltage of the Minimum w voltage of th	of the charge point is set. orking voltage: set the ma e charge point. orking voltage: set the m	aximum working
	32 A 90 °C 280 V	Maximum we voltage of the Minimum w voltage of th	of the charge point is set. Orking voltage: set the ma e charge point. Orking voltage: set the m e charge point	aximum working
x Work Current rice Max Work Temperature x Work Voltage ninal Work Voltage	32 A 90 °C 280 V	Maximum we voltage of the Minimum w voltage of th Enable the Plu	of the charge point is set. Orking voltage: set the ma e charge point. Orking voltage: set the m e charge point	aximum working
x Work Current rice Max Work Temperature x Work Voltage rinal Work Voltage g Then Charge Mode	32 A 90 °C 280 V 80 V 120 S	Maximum we voltage of the Minimum we voltage of the Minimum we voltage of the Enable the Plue Enable the Plue Enable the I	of the charge point is set. Orking voltage: set the ma e charge point. Orking voltage: set the m e charge point ug then charge mode.	aximum working hinimum working

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7. Firmware Upgrade



Here you can upgrade the software inside the charger.

8. Router Connection

<	Charge P	oint Details	i.
	Make Avai	lable	
	Clear Loca	al Authorized Cach	ne
	Manual Up	ograde Firmware	
	Connect T	o Router	
	Bind Devic	e	
	Feedback		
Voltage: 220.90	V	Current: 0.00	A
	×		A
^{CP State} Idle(12\	()	Work Time:	
Energy:		Temperature:	
0.00	KWH	28.0	°C
(4)	\bigcirc		0
Start	Schedule	IC Card	Settings

You can set up the charger to connect to a designated router. Press "to connect to the router", and wait for about 10 seconds, then choose router name (SSID) and password. The charger will restart after the setting. Then connect the phone to the router and enter the APP again.

You can control the charger within the same network.

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<	Charge Po	oint Details	÷		
	Make Avail	able			
	Clear Loca	Clear Local Authorized Cache			
	Manual Up	Manual Upgrade Firmware			
	Connect To	Connect To Router			
	Bind Device	Bind Device			
	Feedback				
Voltage:		Current:			
220.90	V	0.00	A		
CP State		Work Time:			
Idle(12)	V)	0			
Energy:		Temperature:			
0.00	KWH	28.0	°C		
	0				
Start	Schedule	IC Card	Settings		

You can control the charger anywhere when it is bound.

Note: The charger needs to connect to router before binding, and the router needs to connect to internet.