

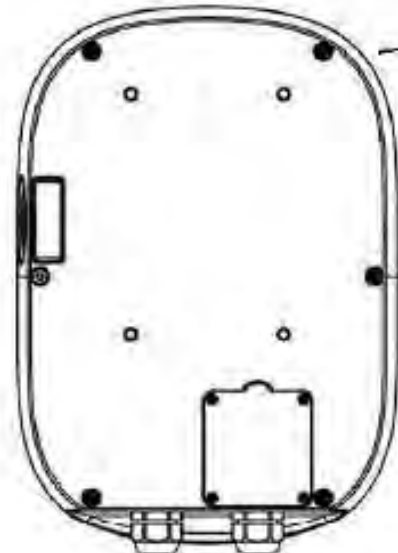
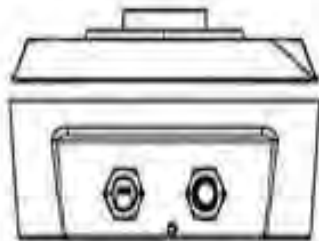
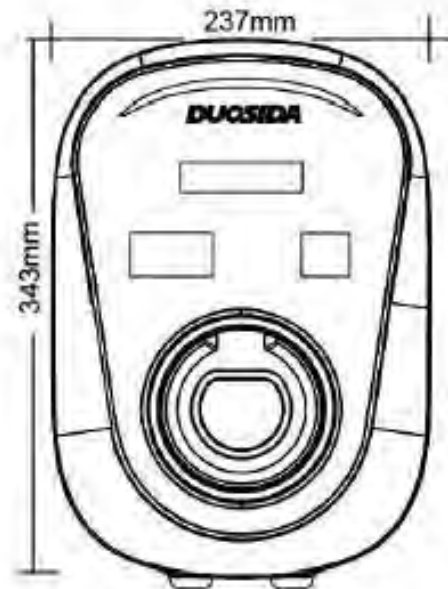
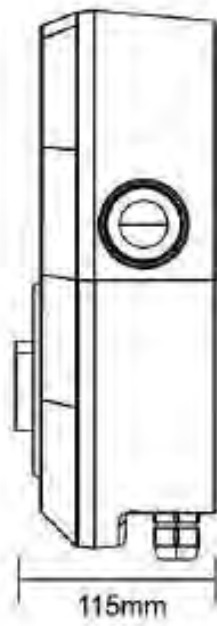
User Manual



SES Series Charger

Technical parameters

The dimensions



1. Style - wall mounted

Technical specifications:

Installation method: wall mounted

Maximum power: 22kW

Communication interface: (optional)

GPRS WIFI RFID

Outdoor protection:

Without power supply - the waterproof protection grade can reach up to IP55

With power supply - The waterproof protection grade state can reach up to IP54, under coupling state

Safety regulation: Meet IEC 61851 and IEC 62196

Operating temperature:

ambient temperature - 30 °C to 50 °C

Output type:

EN 61851-1 MODE 3 OR MODE 2

22KW: 400VAC@32A



Basic functions:

Starting mode: charge when plug, smart charge for APP

Reminder function: charging indication and fault indication

Self-test function: fault self-position (can be checked in the background after being networked)

Human-computer interaction:

Safety protection:

Double leakage detection and protection

Emergency stop button protection

Over current, over voltage, under voltage and over temperature protection

Data record if Power off (can be checked in the background system if being networked)

Surge protection meets the latest IEC 61851 standard

EMC meets the latest IEC 61851 standard

2.Style - Stake

Technical specifications:

Installation method: stake-type mounted

Maximum power: 22kW

Communication interface: (optional)

GPRS WIFI RFID

Outdoor protection:

Without power supply - the waterproof protection grade can reach up to IP55

With power supply-The waterproof protection grade state can reach up to IP54,under coupling state

Safety regulation: Meet IEC 61851 and IEC 62196

Operating temperature:

ambient temperature - 30 °C to 50 °C

Output type:

EN 61851-1 MODE 3 OR MODE 2

22KW: 400VAC@32A



Basic functions:

Starting mode: charge when plug, smart charge for APP

Reminder function: charging indication and fault indication

Self-test function: fault self-position (can be checked in the background after being networked)

Human-computer interaction:

Safety protection:

Double leakage detection and protection

Emergency stop button protection

Over current, over voltage, under voltage and over temperature protection

Data record if Power off (can be checked in the background system if being networked)

Surge protection meets the latest IEC 61851 standard

EMC meets the latest IEC 61851 standard

Charging plug



V4-DSIEC2b-EV32P



V4-DSIEC2e-EV32P

Charging gun : Provide 16A / 32A for choosing

Superior protection performance, the protection level reaches IP54 (working state)



Certification: CE & TUV

Technical parameters (32A)

Product type	SES-32 Charger with cable	SES-32 Charger with socket
Rate voltage	400VAC	400VAC
The max output current	32A/Phase	32A/Phase
Operating frequency	50Hz/60Hz	50Hz/60Hz
The max output power	7-22KW	7-22KW
Human-computer interaction	LED screen	LED screen
Charging control mode	Charge when insert	Charge when insert
Charging connect type (HEC)	Case C	Case B
Standby power consumption	2W	2W
Communication mode	/	/
EMI	CISPR22/EN 55022 CLASS B	CISPR22/EN 55022 CLASS B
EMS	EN 61000-4-5 ±2KV/±4KV perf. Criteria B	EN 61000-4-5 ±2KV/±4KV perf. Criteria B
Executive standard	EN 61851-1 & EN 61851-22	EN 61851-1 & EN61851-22
Protection Level	IP55(storage) IP54(Mated with vehicle)	IP55(storage) IP54(Mated with vehicle)
Operation Temperature/Humidity	-30-50℃/5%-95% (non-condensate)	-30-50℃/5%-95% (non-condensate)
Altitude	<2000m	<2000m
Product Weight	6.5Kg	3.5Kg
Product Size	237mm×343mm×115mm	237mm×343mm×115mm
Installation	Pedestal/wall installation	Pedestal/wall installation

Technical parameters (16A)

Product type	SES-16 Charger with cable	SES-16 Charger with socket
Rate voltage	400VAC	400VAC
The max output current	16A/Phase	16A/Phase
Operating frequency	50Hz/60Hz	50Hz/60Hz
The max output power	11KW	11KW
Human-computer interaction	LED screen	LED screen
Charging control mode	Charge when insert	Charge when insert
Charging connect type	Case C	Case B
Standby power consumption	2W	2W
Communication mode	/	/
EMC	CISPR22/EN 55022 CLASS B	CISPR22/EN 55022 CLASS B
EMS	EN 61000-4-5 ±2KV/±4KV perf. Criteria B	EN 61000-4-5 ±2KV/±4KV perf. Criteria B
Executive standard	EN 61851-1 & EN 61851-22	EN 61851-1 & EN61851-22
Protection Level	IP55 (storage) IP54 (Mated with vehicle)	IP55 (storage) IP54 (Mated with vehicle)
Operation Temperature/Humidity	-30~50℃/5%-95% (non-condensate)	-30~50℃/5%-95% (non-condensate)
Altitude	<2000m	<2000m
Product Weight (22KW)	5kg	3.5kg
Product Size	237mm × 343mm × 115mm	237mm × 343mm × 115mm
Installation	Pedestal/wall installation	Pedestal/wall installation

Naming	Technical specifications
Regulations	IEC 61851-1
Charging power mode 3	3KW to 22 kW
Nominal voltage	230 V / 400 V / 1/3 AC
Rated current	to 16 A adjustable from 6 to 32 A in 1 A steps
Nominal frequency	50 Hz
connection technology	Spring clamp technology
Charging connection / coupling	Type 2
Length of charging cable	3,5 m, 5 m, 7,5 m
Operation / status information	LED lights and LED screen
IP class	IP55 (splash proof)
Residual current detection	AC 30mA, DC 6 mA
Ventilation	no ventilation is required
operating temperatur	-30°C - + 50°C
Protection class	I
Overvoltage category	III
Certifcaiton	CE & TUV

How to charge

Module	Function	SES Charger with cable	SES Charger with socket
	plug and charge	●	●
RFID module	IC card charging	●	●
WiFi module	Smart APP Charging	●	●
LED module	LED screen display	●	●
LCD module	The LCD display	○	○
The main board		Full function motherboard	Full function motherboard
Light with	Top indication	●	●
Light ring	Bottom indication	●	●
Leakage current transformer	Leakage protection	●	●
Current transformer	Over-current protection	●	●
Voltage transformer	Over-voltage protection	●	●
	Under-voltage protection	●	●
Temperature sensor	Over-temperature protection	●	●
Emergency stop button	Emergency stop	●	●
Incoming line through terminal		●	●
Lightning protection device	Lightning protection	10000A 8/20us	10000A 8/20us
Watt-hour meter	High precision measurement	○	○
	Internal measurement	●	●

● Represents has this function ○ Does not have this function

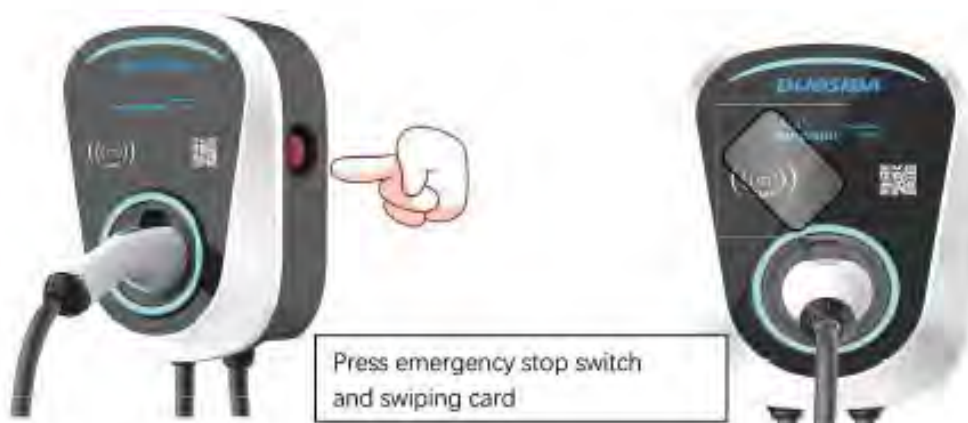
How to use wifi**1 Power on after the EV charger is installed**

*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 Connect to the charger

2.1 In to the WiFi configuration mode

2.1.1 Use IC card to enter WiFi configuration mode

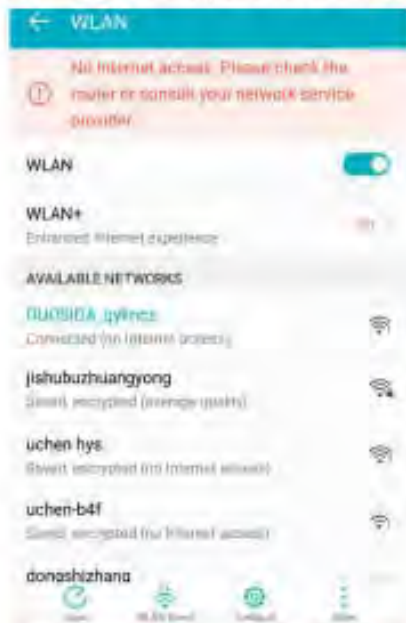


Please power on again and enter WiFi configuration mode in 2 minutes.

2.1.2 Or use emergency stop switch to enter WiFi configuration mode



2.2 Use your smart phone to connect the charger's WiFi



Find the network of DUOSIDA_XXXX, enter the password: duosida@cp

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.

Dear users:

Thank you for using our Company' products.

Please read this guide seriously and storage carefully.

In order for you to better use and maintain this product, (here in after referred as EV charging station).

The EV charger includes the high voltage circuit, low voltage circuit. Please do not disassemble or refit by yourself.

The fault caused by this won't belong to the warranty.

Our company won't responsible for the injure caused by this.

This manual is used to use this product correctly. It's not the configuration instruction of this product.

About the configuration status, please read the relevant contracts of EV charger (if you have), or advisory the agency.

3 Open the APP

Charge Points

ChargePoint Local(10000115) +2

DUOSIDA Mode3@32A Firmware V1.0.0.645.ocp01.6. oled/fb.wifi/private

Get Status Online Check Status Available



Click the screen to scroll down and refresh until the list of charge points appears. After successful activation, the circular and arc indicators of the charge point will turn blue.

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

Charge Points

ChargePoint Local(10000115)

DUOSIDA Mode3@32A Firmware V1.0.0.645.ocp01.6. oled/fb.wifi/private

Get Status Online Check Status Available



Click on and into the charge point details

Charge Point Details

Voltage	233.20 V	Current	0.00 A
Ch. level	idle(12V)	Work time	0
Energy	0.00 kWh	Temperature	42.3 °C

4 charger details



*3: Idle is for standby status, 9V is for prepare charging, and 6V PWM is for charging status.
 *4: This temperature for internal chip temperature, higher than the internal environment temperature about 15 °C.

5 Charging procedure

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

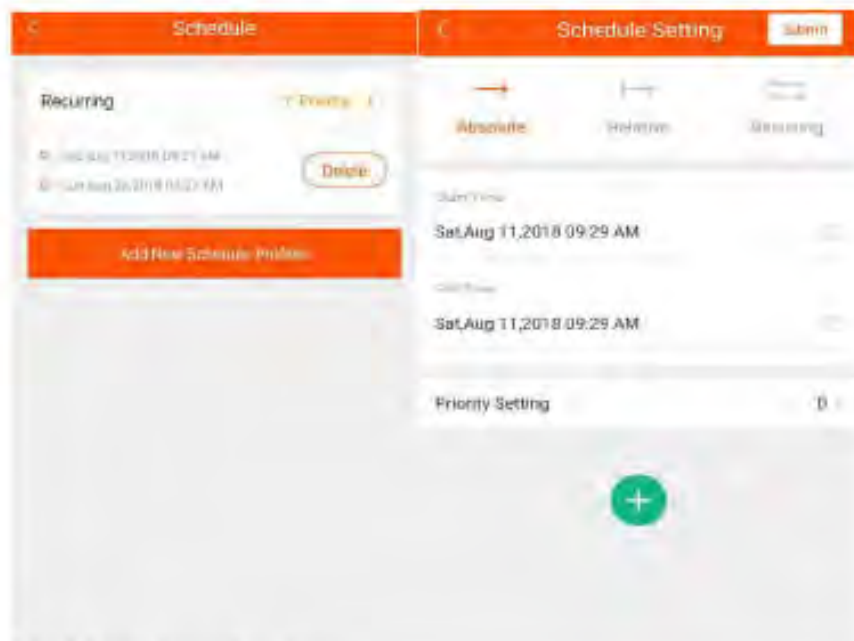
5.2 Use the APP to enter the charging details page, and click the start charging button or use IC card to start charging.



5.3 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 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.

6 Schedule setting

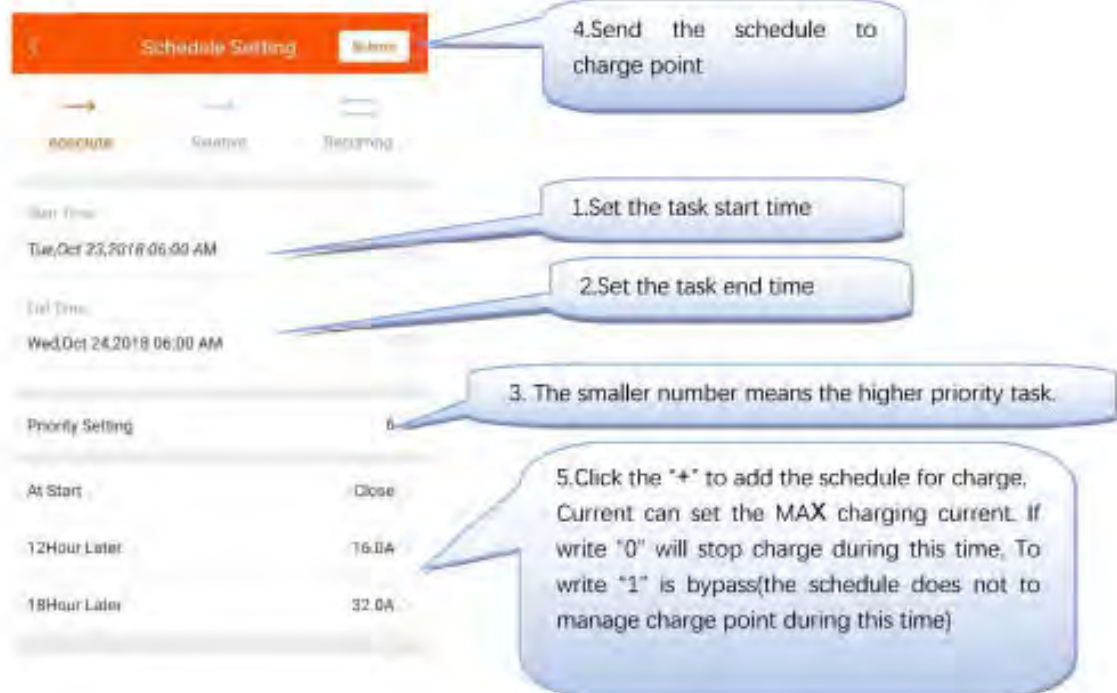


Scheduling tasks are three types:

1.Absolute:

During the time period of the task, The charge performs charging according to the set time point.

Example 1:



Charge Point Details



Voltage: **233.20** V
Current: **0.00** A

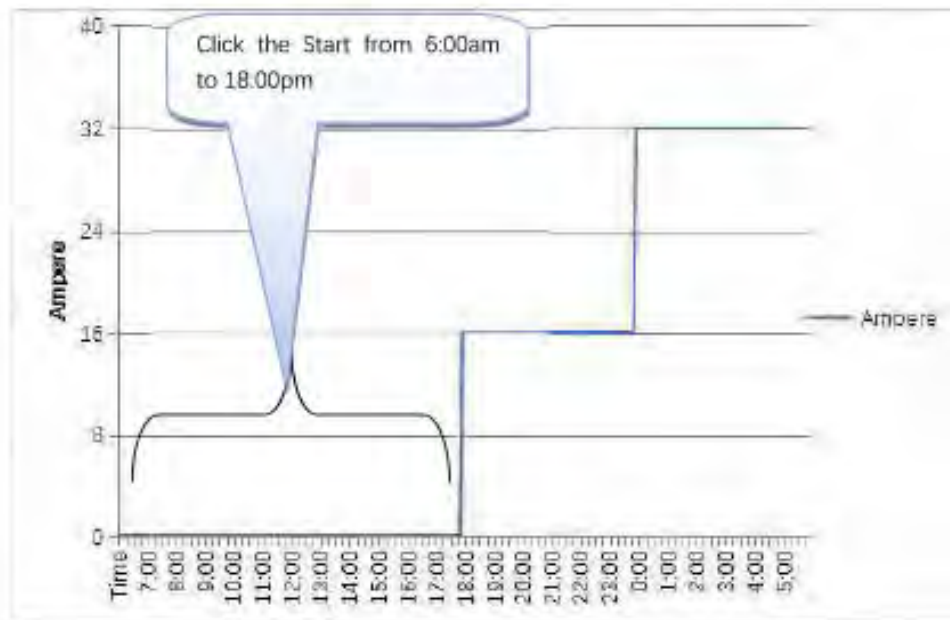
CP State: **Idle(12V)**
Work Time: **0**

Energy: **0.00** KWH
Temperature: **42.3** °C

5. Click the Start to enable task.



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, charger will work at default 32A.



2Relative:

The charging chart is based from start time of charging session. Example 2:

← Schedule Setting
Submit

← Absolute
→ Relative
← Planning

Start Time: Tue, Oct 23, 2018 06:00 AM

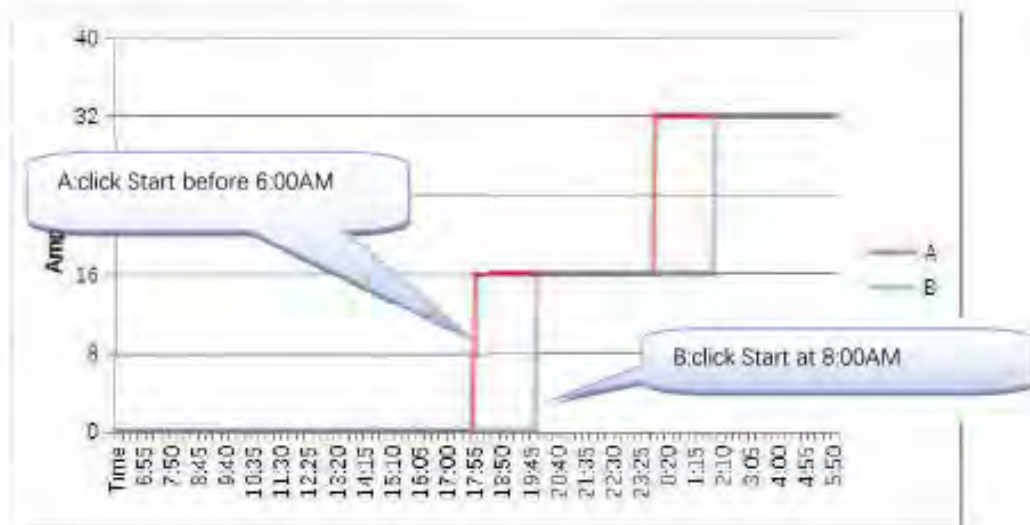
End Time: Wed, Oct 24, 2018 06:00 AM

Priority Setting: 5

At Transition Start

At Start	Close
12Hour Later	16.0A
18Hour Later	32.0A

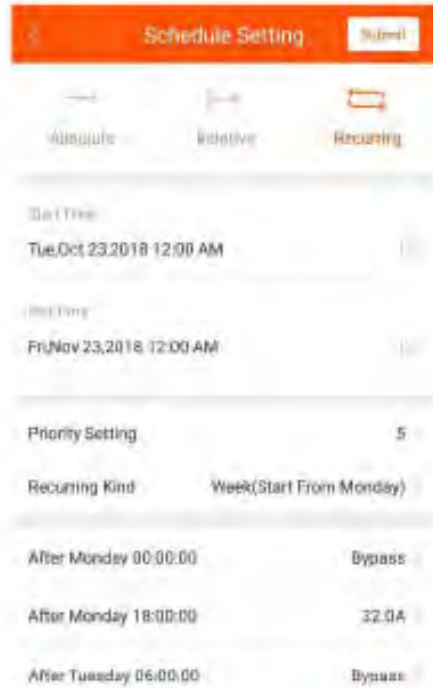
This part setting same to example1
 "12Hour Later" and "18hour Later" is from you click Start.



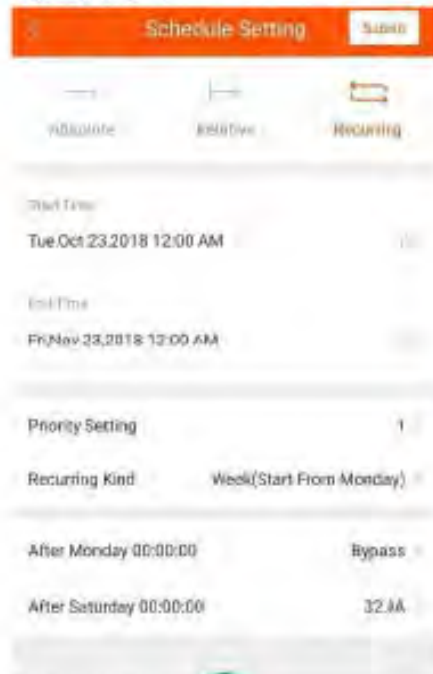
3Recurring:

Loop execution can be set to cycle by day or cycle by week.

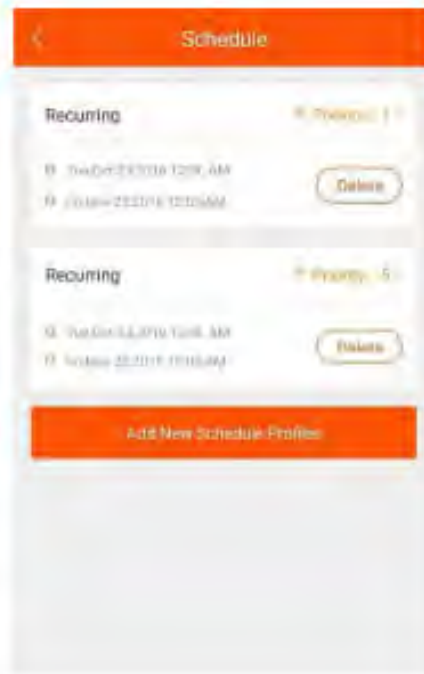
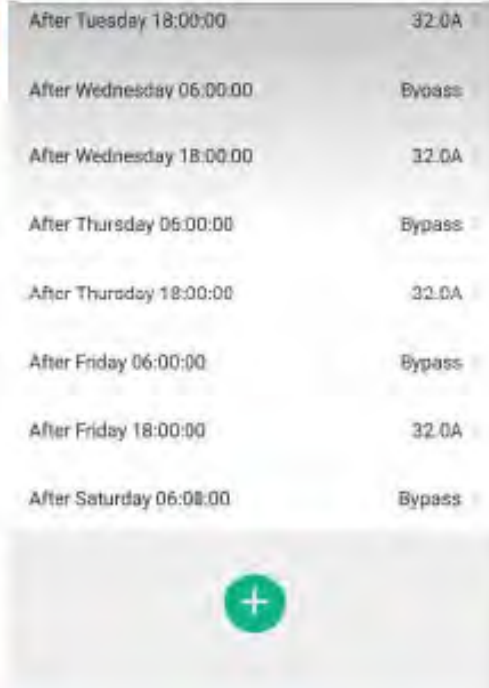
Example3: You want to charge from 8pm to next day 6pm on Mondays to Fridays, and all day on Saturdays and Sundays. We can set to two Recurring tasks.



The first task ↑

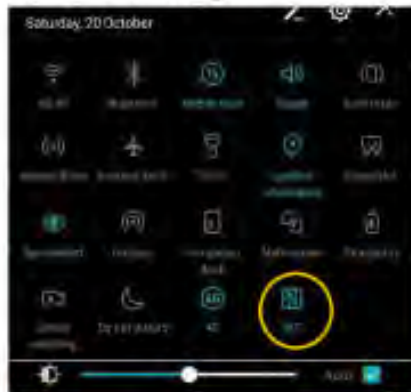


The second task ↑



7 IC card management system

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



Please turn on the NFC switch on your phone. The APP will apply for the NFC usage authorization. Please click the permission, otherwise the IC card cannot be added



Click <IC Card> to enter the IC card setting page.



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 KW/h 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.



The charger owner use the APP to issue CARDS to the user according to the user's demand, and sets the KW/h limit of IC card according to the need. 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. 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.

CATALOGUE

Introduction	
1 Product appearance and type -----	page 7, 8
2 Product description of appearance	
2.1 SES Charger -----	page 9
2.2 E-stop and incoming line -----	page 9
4.LED screen & Protect function -----	page10
5.Technical parameters -----	Page11-17
6.How to charge -----	page18
7. How to use wifi -----	page19-32
8 How to install-----	page32-47
9.FAQ-----	Page48-51
10.Contact-----	page51

CATALOGUE

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 charging, and the charge 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 find the owner to add the KWh power;

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

8 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	<p>The charger is in an unusable state, under which the charger cannot be charged:</p> <ol style="list-style-type: none"> 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	<p>The charger is in a idle state, in which the user can operate the charger.</p>
Preparing	<p>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:</p> <ol style="list-style-type: none"> 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 plug, that will wait for the user to put in; 3. Swiping card when no plug inserted into the vehicle.
Charging	<p>When all charging conditions are met, the charger will enter the charging state.</p>
SuspendedEVSE	<p>When the working conditions of the charger are not satisfied, the charger will enter the state of SuspendedEVSE, and SuspendedEVSE will be triggered in various cases;</p>

	<ol style="list-style-type: none"> Charger enters protection conditions, such as over voltage, over current, over temperature, leakage, emergency stop, etc.; 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	<ol style="list-style-type: none"> 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; The charging state will be entered after charge finished.
Reserved	No support, not applicable to current charger.
Faulted	Charger error occurred.

How to install

1. Installation Guide

1.1 Safety and user information



Please observe all safety and user information , Relevant local regulations for operating electrical devices always apply.



Indicates : Risks arising from damage to the device
Risks for other users



Indicates : Dangerous electrical currents,
Dangers to life and limb



Indicates : important information and particularities



1. Suitable for garages, carports or outdoor as well as for underground parking garages, apartment blocks, hotel parking lots etc..

2. for wall mounting or freestanding with matching Duostar stainless column,

3. IP class: IP 55(Splash-proof)



Charging station should not be directly exposed to sunlight



The installation site must offer protection against rain and running water or other liquids



Keep away from fire to ensure personal safety



The installation site must offer sufficient space

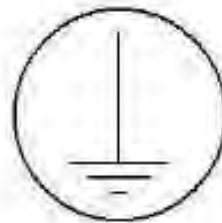


We recommend that this product be installed in a place that is rainproof and sun proof, or it can be equipped with protective function. This can reduce the possibility of failure and extend the life of the product. If you need support, please contact your supplier.

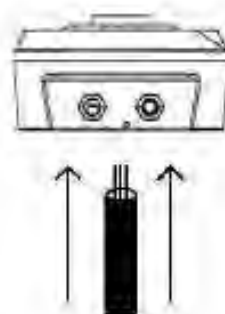
1.2 Safety and user information



The rated voltage must be observed.



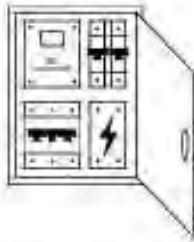
Charging station must be connected to a protective earth conductor



1. Ideally, the installation site should from already provide for connection to the electricity grid.
2. Otherwise, a power supply cable must be installed especially
3. If unsure, please contact your Specialist electrical contractor

1. Ideally, cable entry is the underside of the housing base
2. Above or below surface power supply possible

Safety and user information



The power supply in the domestic power distribution box must be protected separately by a suitable and accurate dimension miniature circuit breaker (C characteristic)



Complies with all technical safety requirements, standards and guidelines.

Represents the current state of technology



DC fault current detection is required by law in many countries

1.3 Installation requirements



The installation surface
measures at least
262 x 222 mm
(height x width)



The mounting substrate
must be level and firm



Minimum distances
to other technical
installations must be
observed



The installation height is
between 140 and 160 cm
(floor to bottom edge of housing)



The installation site must be freely
accessible

1.4 Dos and don'ts



The charging cable must not be under strain during the charging process



The charging cable and the charging connector must not be driven over



The charging cable must not be kinked or twisted



The charging cable must be coiled tightly and stored.

1.5 Installation notes

(De-)installation and repairs must only be carried out by a specialist electrical contractor

No modifications must be made to the charging station

None of the components need to be maintained by the user



Different model has bit difference in size , appearance and function , The charging station can be installed by yourself according to the following installation procedure

1.6 Cleaning and maintenance



Charging station must only
be cleaned using a dry cloth



Maintenance must be checked
regularly



Cable must be checked regularly if there is any
damage or aging phenomenon

1.7 The installation procedure

1.7.1 Installation tools



Electric drill



Wrench



adhesive tape



bolt driver



Pliers



The knife



scissors



pencil



screw



hammer

Application:

EV charger is used to offer the AC power for the vehicle with an battery charger.

EV charger can be assembled in all kind of parking lot public, company and community.

It is also can be assembled in kind of large, medium and small charge station.

It is suitable all kinds of parking lot unmanned, users can charge, pay, etc. independently.

Supporting smart charging.

Supporting APP smart control (remote start charge, reserving charging, set charging current, display and view charging status, etc. APP's name is DUOSIDA Charge, you can find it in Google play or apple store.)

Remark: smart charging require EV charger containing WiFi modules. WiFi modules are optional.

1.72 Installation process



1.First, stick the drawing on the wall with tape to decide the drilling hole position



2.Drill holes in the four corners with an electric drill



3. Knock the expansion screws in fixed holes with hammer



4.Hang the mounting plate on the screw



5. Tighten the screw with a wrench



6. Tighten the screw with a wrench



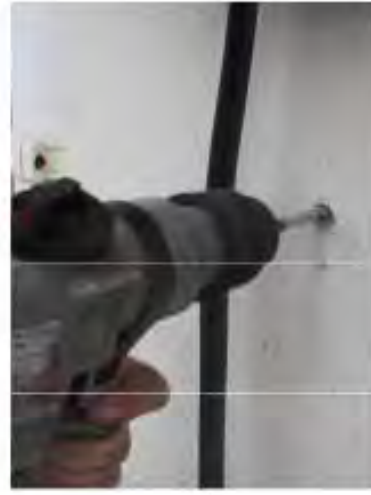
7. Hang the main body of the charging station on the mounting



8. Tighten the anti-theft screw to ensure outdoor safety plate



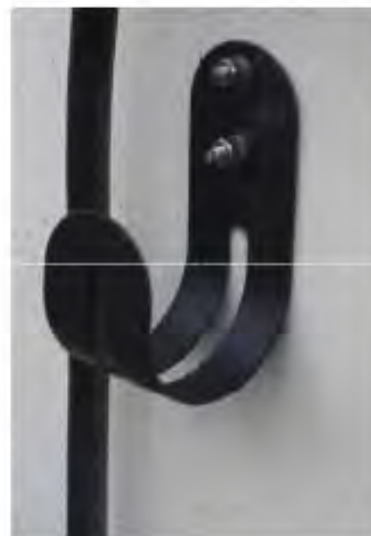
1. Use a pencil to draw location where the hook needs to be punched



10. Use an electric drill to make holes in the drawing position



11. Drive the expansion screw in with a hammer



12. Tighten the screw with a wrench

1.7.3 Electrical connection

Requirements

Connect the wires to the RCD in sequence

Pay attention to the correct order when connecting.

Reversing the polarity of the cables will destroy the electronics of the wallbox

Setting the charging current.

The charging current must never be set higher than the line fuse itself.

!!! ATTENTION !!!

If the wallbox is to be operated with an output of 11 kW, it must be protected with a 20 A fuse (over current protection).

Soll die Wallbox mit einer Leistung von 11 kW betrieben werden, ist diese mit einer Sicherung von 20 A abzusichern.

If the wallbox is to be operated with an output of 22 kW, it must be protected with a 40 A fuse (over current protection).

Soll die Wallbox mit einer Leistung von 22 kW betrieben werden, ist diese mit einer Sicherung von 40 A abzusichern.

First commissioning

Pay attention to release the emergency stop switch

Arc-LED and cyclo-LED is blue

The nameplate is located to the left of the charger

You can start charge with plug in charging gun or use APP

the power supply has been established when arc-LED blink and cyclo-LED often on

Before the first commissioning the:

According to "Ordinance on general conditions for grid connection and its use for electricity supply in Low voltage (Low Voltage Connection Ordinance - NAV)" in § 19 the following points have to be clarified with the network operator:

*„Section 19 Operation of electrical systems, consumables and charging devices, own systems
(1) The system and consumables are to be operated by the connectee or user in such a way that faults occur other connectees or users and disruptive repercussions on network operator facilities or Third parties are excluded.*

(2) Extensions and changes to systems as well as the use of additional consumer devices are the

Notify network operators if this increases the capacity to be maintained or with network repercussions is to be expected. Charging devices for electric vehicles are also prior to commissioning to communicate. Their commissioning also requires the prior consent of the network operator, if their total rated power exceeds 12 kilovoltampere per electrical system, is the network operator in this case, obliged to express itself within two months of receiving the notification. Is that true Network operator, he has the impediment, possible remedial measures of the network operator and the Connected party or user and a time required for this by the network operator. The network operator can regulate details of the content and form of the messages.

(3) The connectee or user must notify the network operator before setting up his own system do. The connectee or user must take appropriate measures to ensure that his Own plant no harmful repercussions in the electricity supply network are possible. The connection of own systems is to be coordinated with the network operator. This can be the connection of compliance with the make it dependent on measures to be taken to protect against reverse voltage in accordance with Section 20."

- before the first commissioning with an electric car the following tests must be carried out with an adapter for vehicle simulation (CP) according to VDE 0122-1:

AC charging		
Measurements according to DIN VDE 0105-100 - recurrent tests in operation		
Measurements		
The following tests are to be carried out with an adapter for vehicle simulation (CP) according to VDE 0122-1		
Measurement task	measurement method	values
Continuity of the conductors	Resistance measurement of the conductors	PE < 1.0 Ω PA < 0.1 Ω
Insulation resistance of the protective conductor to neutral and outer conductors	Measurement of the insulation resistance	≥ 1.0 MΩ
Evidence of the effectiveness of the protective measure is by means of Test adapter in vehicle condition C		
Proof of the effectiveness of the protective measure with residual current device IΔN ≤ 30 mA.	RCD Typ A *1 RCD Typ EV RCD Typ B	IΔN ≤ 30 and note manufacturer's instructions
Proof of the effectiveness of the protective device in the event of a short circuit by measuring the internal resistance ZL-N	measuring the internal resistance	≤ 1 Ω
Optional		
Measurement of the protective current	f.e. with clamp ammeter	≤ 100 mA
Measurement of the neutral conductor	f.e. with clamp ammeter	≤ 10 A
Checking the loading sequence		
Trials loading process according to VDE 0122-1		
Vehicle condition	functional test	result
Status A	no vehicle connected	Yes / No
Status B	vehicle connected, but not ready to load	Yes / No
Status C	vehicle connected and ready for charging, ventilation of the loading area is not required	Yes / No
Status D	vehicle connected and ready for charging, ventilation of the loading area is required	Yes / No
Status E	Failure - short circuit CP - PE via internal diode (charging of DC voltage)	Yes / No

* 1 Observe notes in DIN VDE 0100-722 (VDE 0100-722): 2016-10

- For planning, installation, operation and use, please follow the "Der Technische Leitfaden - Ladeinfrastruktur / Elektromobilität (Version 3)" [Editor: DKE, bdew, ZVEH, ZVEI, & VDE]

Environment

- This device is used to charge electrically operated Vehicles and is subject to the EU directive 2012/19 / EU on waste electrical and electronic equipment (WEEE).
- Disposal must be according to national and regional Regulations for electrical and electronic equipment respectively.
- Old devices and batteries must not be disposed of with household waste or bulky waste. Before the device disposed of should it be rendered inoperable.
- Dispose of the packaging material in the Your region's usual collection container for cardboard, paper and plastics.

FAQ
Display information

Status indicator light meaning

Condition	Arc power indicator light	Circular status indicator light	Remarks
Emergency stop	Red often on	Red often on	
Standby	Blue breathing lamp	Blue breathing lamp	
Prepare for charging	Green often on	Green often on	Simple one has no this state
Charging	Green often on	Green breathing lamp	
End of charging	Green often on	Blue often on	Individual models have no this state
Electric leakage	Red breathing lamp	Red breathing lamp	
Over voltage Less voltage	Red often on	Blue often on	
Over current protection	Red often on	Green often on	
Over temperature protection	Red often on	Blue breathing lamp	
Hardware failure	Red often on	Green breathing lamp	
Power off	Not bright	Not bright	

Maintenance Notes

Check whether the line is aging with the monthly power cut.

Conduct leakage test on the external leakage protector to ensure the normal operation of the leakage protector.

Observe incoming lines to make sure no wires is damaged.

Breakdown and maintenance
The meaning of the error code

Display code	Meaning of code	Solution
0x00010001	The emergency stop switch is triggered	Please ensure safety before releasing the emergency stop switch
0x00010002	Over Temperature	Reserved, without this function, temperature control sensor must be connected
0x00010003	Over current protection	Please ensure that safe and start charging
0x00010004	Over voltage Protection	Please ensure that safe and start charging
0x00010005	Low-voltage protection	Please ensure that safe and start charging
Abnormal code of modules outside the main board		
0x00020001	The LCD screen anomaly	Maintenance or professional personnel are required to check the connection or replacement
0x00020002	The OLED screen anomaly	Without this function. Reserved.
0x00020003	The RFID screen anomaly	Maintenance or professional personnel are required to check the connection or replacement
0x00020004	Abnormal measurement module of cover meter	Maintenance or professional personnel are required to check the connection or replacement
0x00030005	GPRS communication module communication abnormal	Maintenance or professional personnel are required to check the connection or replacement
0x00030006	Electric lock exceptions	Reserved.
0x00030010	Abnormal current voltage detection module	Professional personnel are required to repair or return to the factory
0x00030011	System voltage monitoring anomaly	Professional personnel are required to repair or return to the factory
0x00030011	System current monitoring anomaly	Professional personnel are required to repair or return to the factory
0x00030020	System relay abnormal	Professional personnel are required to repair or return to the factory
0x00030021	System relay cannot be opened	Professional personnel are required to repair or return to the factory
0x00030022	System relay cannot be closed	Professional personnel are required to repair or return to the factory
0x00030030	Abnormal built-in leakage protection module	Professional personnel are required to repair or return to the factory

Safety tip

The people who assemble and use the EV charger must response the follow principle and rule, to confirm the relevant people and device operation normally:

Before device power on, please confirm the device is good earth, to avoid the unnecessary accident.

All of the tools must be insulating treatment to avoid the short circuit or personal injury due to uncovered metal touches metal frame.

Don't refit, add and change any parts whatever any condition.

Confirm the EV charger using life and operation steadily, the device should keep cleaning, constant temperature and constant humidity as possible. The EV charger mustn't use in the environment that contain volatile gas or flammable-explosive environment.

The input voltage, frequency, device breaker of equipment must be confirmed that conform to stipulation.

Safety sign



Caution: this sign represents it would create danger for costumer or damage the hardware seriously if operate improperly.



Danger: this sign represents it would create danger for costumer or damage the hardware seriously if operate improperly.

Caution



Danger!

It would create danger if operate isn't accord with stipulation.

The EV charger using should accord with technical running normally and operation safety.

Children mustn't touch EV charger.

The EV charger must be used with the distribution side that with 2P-40A breaker

WARNING

It's may cause danger and harm, or damage the device if you don't in accordance with safety guide.

Electrical and fire risk:

Don't use damaged and smudgy charge connector.

The electrical system for the connection of the EV charger must be inspected by professional, meet the current requirements of the station, also installed a residual current short circuit (RCB)

Don't follow the safety instructions can result in danger and injury, as well as damage to the equipment.

Check the charging station and connector and see if there are any visible damage before each use.

EV chargers can only be used to charge electric vehicles (EVs) or hybrid vehicles (PHEVs).

Do not install the charging station in a closed container to avoid overheating.

Brief instruction

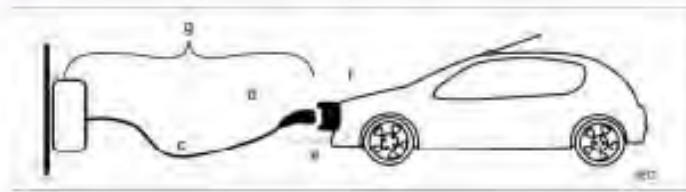
Product appearance and type



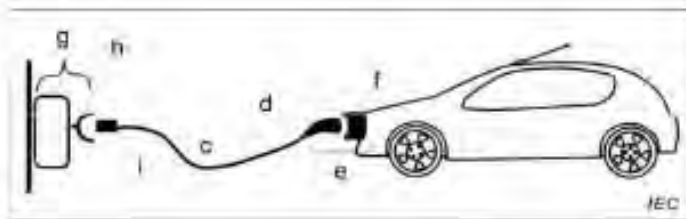
SES Charger with cable



SES Charger with socket



IEC Charging Mode: Mode3 Case C



IEC Charging Mode: Mode3 Case B

Remark 1 For case B, You need to buy a charging cable separately.

2 (a) Socket-outlet, (b) Plug, (c) Cable, (d) Vehicle connector, (e) Vehicle coupler, (f) Vehicle inlet, (g) Charging station, (h) EV socket-outlet, (i) EV plug.

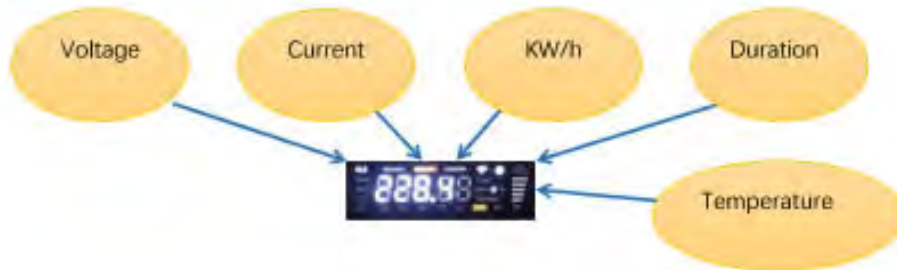
Description of appearance



E-stop and incoming line



Description of LED screen



Protection Function

