



BLAUPUNKT Series DC Charger User Manual



DC Charging Station
BPDC60EU
BPDC80EU
BPDC120EU
BPDC160EU

Enjoy it.

Please read this instruction carefully
before using the product.

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Introduction

For your proper and safe using Blaupunkt electric vehicle DC charging station produced by our company, and troubleshoot in-time, please carefully read the manual before use.

The charging station is suitable for lithium-ion power batteries, providing energy output no greater than rated power, and maintaining high output voltage and current accuracy. The display screen is the most important human-machine communication interface for charger. The main function is to display information, such as state-of-charge, battery pack, and the failure status during charging process.

The charger strictly executed the relevant requirements of "IEC 62196-1,2,3", "IEC 61850", "IEC 61851-1,21,22,23,24", "ISO 17409", "ISO/IEC 15118", "IEC 61439"-7, "IEC 61890", "IEC 61440", "IEC 62040", "IEC 60529", "IEC 60364-7-722", "IEC 6469-3", and realize the standard of vehicle device plugs, charging network topology, communication mechanism security standards.

This manual is only applicable to the Blaupunkt Electric Vehicle DC Charging Station produced by our company. The content of the manual will be upgraded with the upgrade of control software and interface software without prior notice. Please keep the user manual properly for future reference.

Instruction & Precaution

(1) Use environment

Model	Power	Work Temperature	Work Humidity	Altitude	Atmospheric pressure
BPDC60KEU	60kW	-30°C~55°C	5%~95%	≤2000m	80kPa~110 kPa

(2) Safety Instruction

- The charging process shall be executed in accordance with the operation instructions provided by the manufacturer.
- Non-professionals are strictly prohibited to open the machine cabinet; the display screen shall not be dismantled privately, and the sharp objects is prohibited on the display screen.
- When stopping halfway, you must manually click the "Stop" button to stop, and then unplug the charging gun head; it is strictly forbidden to insert or pull out the charging gun head directly during the charging process, otherwise it will burn the charging gun head and charger, or even burn the operators.
- No operations that are not related to charging during the charging process, you must click the "stop" button to stop, and then, other operations continue if the charging gun is disconnected from the car.
- In case of emergency, press the red "emergency stop" button to cut off the internal power inside of the charger.
- Avoid fireworks or fire near the charger, and keep ventilation.
- The fuse should be replaced with the same model units, No copper or iron wire for replacement.
- High voltage in the charging machine, Any fault should be repaired by professionals to avoid danger.
- The air break circuit breaker and power distribution cabinet must be selected, installed and operated by electrical professionals.
- It is recommended to cut off power supply under bad weather such as thunderstorms, If seeper phenomena happened in the charger, Please contact the manufacturer, and can be used after fix it.
- The unit weight of the charging gun cable is heavy, The long cable is easy to drag during charging process, disadvantage of Distorting force release, Increase the risk of cable twisted and drums, Affect the service life. So It is forbidden to pull, twist the cable. The charging gun cable must be smooth during charging process, No twists of charging cable with force.
- It is forbidden to shake the charging guns when inserting or pulling out the guns, It should be inserted or unplugged vertically.

If the following situation occurs, please turn off the power in time and notify the professionals for maintenance.

- Abnormal noise inside of the machine
- Peculiar smell or smoke inside of the machine
- No Display on screen or No Response from machine
- Irreplaceable failure alarm



Note: Before the power-on operation, Please ensure that the device shell is effectively connected with the earth, otherwise there is a danger of electric shock.

1. Overview

1.1 Design Standard

Standard	Standard Requirement
IEC 62196-1	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 1: General requirements.
IEC 62196-2	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 2: General requirements.
IEC 62196-3	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 2: General requirements.
ISO/IEC 15118-1	Vehicle to grid communication interface - Part 1: General information and use case definition.
ISO/IEC 15118-2	Vehicle-to-Grid Communication Interface - Part 2: Network and application protocol requirements.
ISO/IEC 15118-3	Vehicle to grid communication interface - Part 3: physical and data link layer requirements.
ISO/IEC 15118-20	Vehicle to grid communication interface - Part 20: 2nd generation network layer and application layer requirements.
IEC 61850	The IEC61850 standard is a global standard in the field of power system automation.
IEC/EN 61851	Electric vehicle conductive charging system - Part 24: Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging (IEC 61851-24:2014); German version EN 61851-24:2014.
DIN70121	Electromobility - Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging in the Combined Charging System.

SAE J1772	SAE Electric Vehicle and Plug in Hybrid Electric Vehicle Conductive Charge Couple.
IEC/EN 61439	The IEC 61439 standard specifies the safety, reliability, interchangeability, and performance requirements that low-voltage switchgear and control equipment assemblies must meet.

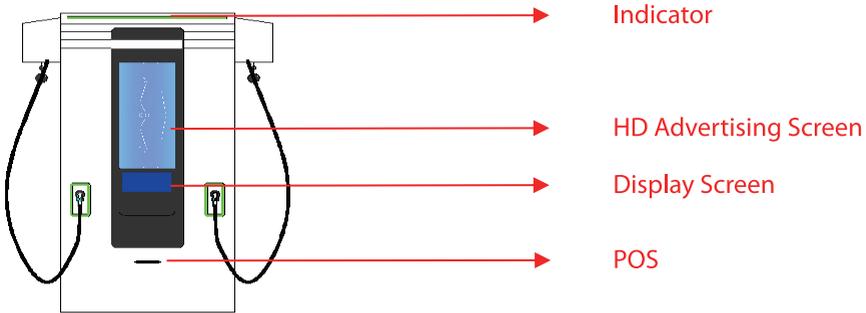
1.2 Function

This Integrated DC charger can fast charging for the vehicle. According to 2023 new International General Standard, It can be compatible with the major new energy vehicles on the market.

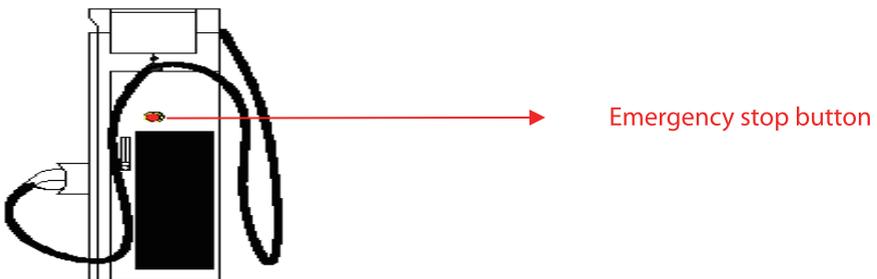
1.3 Appearance Illustration

1.3-1 User Interaction

The operating area includes Display Screen, Card Read area and Emergency stop button. The Display Screen is used for charging information display, The card read area is used to identify the charging card and provide simple operation instruction, The emergency stop button is used to cut off the power under emergencies, avoid accidents. stop it by power off.

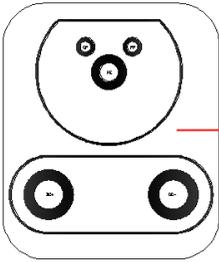


Panel Illustration



Emergency Illustration

1.3-2 Charging Connector



Connector

Charging Connector

1.3-3 Parameters

No	Item Name	Technical Description			
		BPDC60EU	BPDC80EU	BPDC120EU	BPDC160EU
1	Model No.	BPDC60EU	BPDC80EU	BPDC120EU	BPDC160EU
2	Rated Power	60kW	80kW	120kW	160kW
3	Weight (wall-mounted)	About 318Kg	About 318Kg	About 333Kg	About 348Kg
4	Max output current for single connector	200A	250A	250A	250A
5	Size (W*H*D)	1960*1040*500mm			
6	Connector Quantity	Dual			
7	Cable	5m			
8	Compliant Standard	ISO15118/DIN70121/ICE61851			
9	Input voltage	AC400V±15%			
10	Input Voltage Type	3 Phase Alternating Current			
11	AC power grid frequency	50/60Hz±10%Hz			
12	Output Voltage	200—1000V			
13	Output Current Range	0~200A	0~266A	0~399A	0~532A
14	Output Voltage Error	≤0.5%			
15	Output Current Error	when Output current≥30A;≤±1% when Output current<30A:≤±0.3A			

16	Steady Voltage Precision	≤0.5% 20%-100% Load
17	Steady Current Precision	≤1.0%
18	ripple coefficient	≤0.5%
19	average efficiency	≥94.5% 50%-100% load
20	Power Factor	≥0.99 50%-100% load
21	Duration Power Frequency Voltage Withstand	2500VAC 1 min No breakdown or flashover
22	Leakage	≤10mA
23	Noise	≤60dB
24	Insulation Resistance	≥20MΩVoltage Testing 1000VDC
25	Ingress Protection	IP54 Outdoor
26	Cooling Mode	Fan Cooling
27	Installation	Floor-stand
28	User Interface	10.1" Touch Screen
29	Communication	Ethernet
30	Measuring accuracy	1.0 Grade
31	Start Mode	APP,RFID Card,PASSWORD
32	Protection	Over/Under voltage protection,short circuit protection, Residual current protection, Over temperature protection, Leakage Protection
33	OCPP	OCPP1.6-J

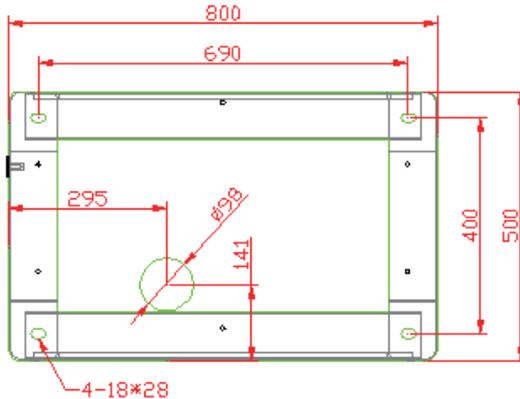
2. Use Instructions

2.1 Installation Instruction

2.1-1 Embedded and set aside holes on the base

(1) Embedded and set aside holes

When the charger is installed, It should be safe and reliable. The installation chart is shown as below:



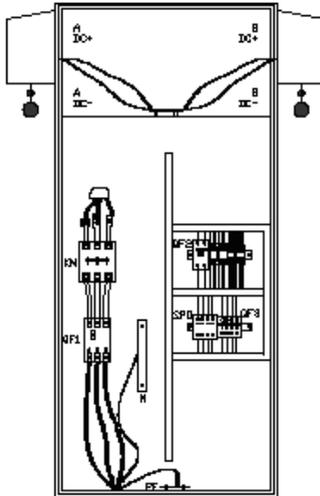
Installation Hole Dimension

Installation Precautions:

- The installation location of the charger should not be too low, the distance from base to the ground should be more than 80cm, which is to prevent from soaking and affect it's normal use.
- When installing, it must be ensured that there are no obstacles within two meters on the left and right sides of the charger, to ensure the normal heat dissipation; a certain distance should be reserved in front of the charger for easy operation.
- After the body is fixed on the wall, the installation vertical inclination should less than 5%. When fixing, the recommended nut tightening torque is 28.5 N·m.
- The use environment should avoid direct sunlight, and a sunshade (rainproof) shed should be installed outdoors.

2.1-2 Electronic Unit Installation

The electrical installation of the DC charger must be guided by professional technicians. Open the front door, connect the inlet wire to the terminal at the bottom of the circuit breaker, as shown in the figure below.



Emergency Illustration

For AC cables, It's recommended to use flame-retardant ZR-YJV or ZR-RVV cables, 0.6/1KV Voltage Class or higher, at least 105°C temperature resistance. The user determines the cross-sectional area of the input and output cables and the copper lug according to Table 2-1.

Table2-1 AC Charger Inlet Wire Cross-sectional options.

Connector name	Rated output current	Cable Wiring Diameter Range	Connection screw size
60kW DC charger AC Input	91.2A	50mm ²	L1, L2, L3, N and PE are M8
80kW DC charger AC Input	121.6A	70mm ²	L1, L2, L3, N and PE are M8
120kW DC charger AC Input	182.3A	95mm ²	L1, L2, L3, N and PE are M8
160kW DC charger AC Input	243.2A	120mm ²	L1, L2, L3, N and PE are M8

Note:

1. Properly select cables according to on-site wiring distance and line loss...etc factors. As the wiring distance is less than 20m, suggest to estimate the cable diameter as per the current density 3A/mm².

2. Choose the connect copper lug according to above table. It is forbidden to choose the oversize copper lugs, otherwise, the screw connect not firm, the connection between the cable and the copper bar will be unreliable, and it will eventually cause severe heat and burn out the cable and switch.

3. The input grounding wire of the charging pile should not be less than 10mm² copper wire or 16mm² aluminum wire.

According to electrical requirements,when the phase wire is larger than 35 mm², the ground wire should be half of the phase wire cross section;As the phase wire is larger than 16 mm² but less than or equal to 35 mm², the ground wire should be consistent with the cross section of the phase wire,The ground wire cross-section should not be less than 6 mm².

The AC inlet wire enters from the bottom of the charger and connected to the AC input terminal and ground terminal inside the charger.The AC input must be wired according to the inlet wire indication,the neutral line and the phase line cannot be reversed connected, otherwise it will cause an unrecoverable failure,The upper-level circuit breaker and power distribution cabinet must be selected and operated by professional electricians,and the electrical installation torque suggested is 24 N.

2.1-3 Charging Module Installation

Charging Module Installation Process as below.

1. Open door and Spacer Plate, Hold the handle of the charging module with one hand, hold the charging module with the other hand, and insert the charging module into the cabinet.
2. Slowly push the charging module into the slot.
3. Tighten two fixing screws on the panel of the module to fix it on the cabinet.
4. Install the charging modules into the cabinet in sequence from top to bottom.

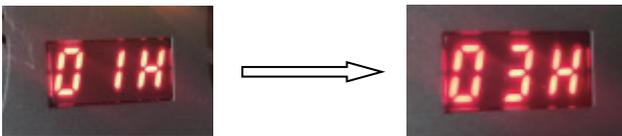
2.1-4 Module Address Setting



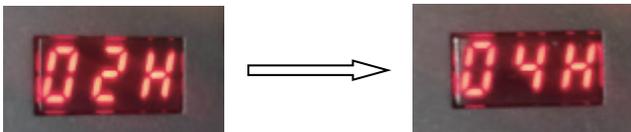
Module Address

Module Address Setting

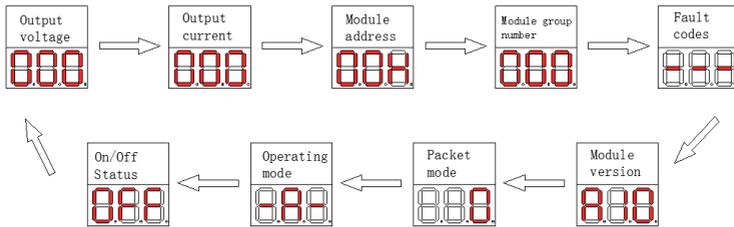
A. Gun Module Address is set as: 01H \ 03H;



A. Gun Module Address is set as: 02H \ 04H;



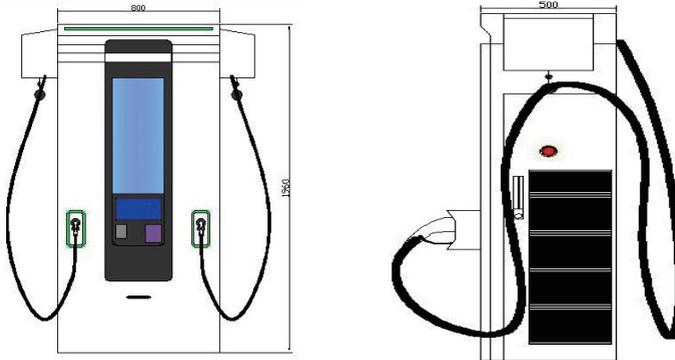
There are 2 buttons on the Module, Up button (▲) and Down Button (▼), through the buttons, You can see module information, Press (▲) or (▼) It will show as below:



The steps to set module address parameters are as follows:

1. Press (▲) or (▼), Switch to the "Module Address" interface display.
2. Press (▲) or (▼) and release after about 2.5 seconds, you can see flashing.
3. Press (▲) or (▼) to change the setting value (the corresponding address refers to the above A and B gun module address settings).
4. Press (▲) or (▼) and release after about 2.5 seconds, save data.

2.1-5 Equipment Dimension



Size

2.2 Preparation Before Power-on

2.2-1 Operator Requirement

The user must take training and hold the electrician certificate before using the charger. During the working period, it is necessary to wear work clothes and insulated shoes according to the regulations. Anyone with long hair should wear safety helmets.

2.2-2 Attention Before Use

- According to the electrician's operation rules, check whether any electrical damage or movement inside the body.
- Open the front door, turn the circuit breaker to the ON position, close air switch of the control circuit,conduct on-off test to ensure that there is no short circuit in the line.
- Turn the circuit breaker to the "OFF",the circuit breaker is disconnected.disconnect the air switch of control circuit and connect the AC incoming line.
- After the AC inlet wire is powered on, please make sure that the emergency stop switch is loose, then turn on the circuit breaker and air switch, and use a multimeter to test to ensure that the power is on.
- Before charging, check whether there are any foreign matter in the charging gun, charging insulator, pins and sockets. If there have, they should be cleaned according to Article 3.2 (4) of this manual.

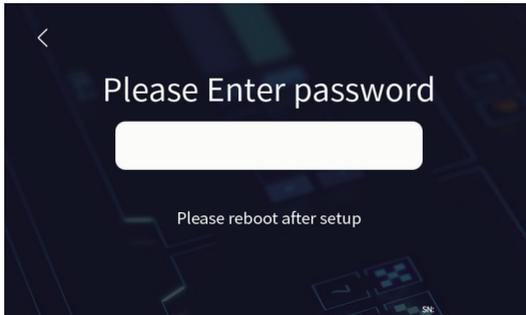
2.3 Network Parameter Setting

2.3-1 Network Parameters

A. Click "Settings" on the home page.



B. Input the initial default password "115200" to enter the administrator interface.

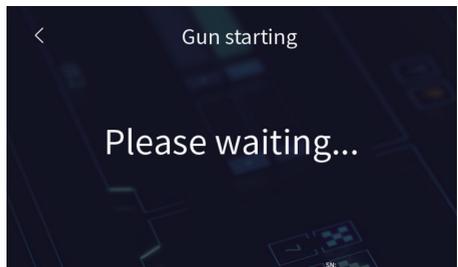
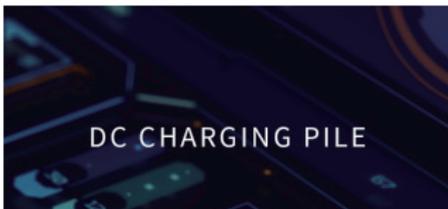


C. On Parameter Page, set input gateway, server domain name and port number, SN.



2.4 Charging System Introduction

2.4-1 Self-Inspection



2.4-2 System Mode

There are 4 charging modes: Auto full charging, Timed Charging, Elec charging, charging by cost. Different charging modes can be selected according to their needs, as below shown.



Charging mode



Charge by elec



Charge by time



Charge by cost

2.4-3 APP Charging Process

(1) Plug the gun to connect the car



Unconnected Status

(2) Use APP to scan QR code



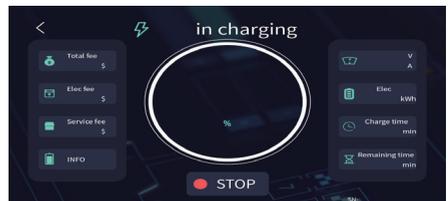
QR Code

(3) Click APP to start charging



Device Running

(4) In Charging



Charging Information

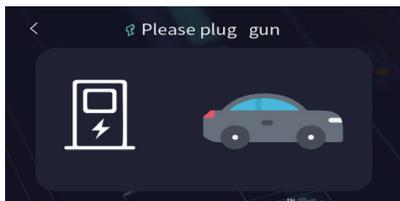
(5) Billing



Billing Information

2.4-4 RFID Card Charging Process

(1) Plug the gun



Car Unconnected

(2) Select "Wallet Card" to start charging



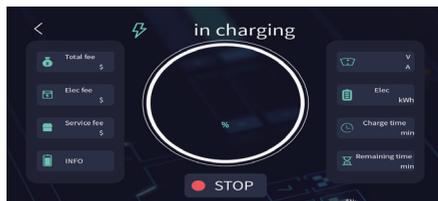
Choose Card Mode

(3) Swipe card to start



Swiping and Timing

(4) In Charging



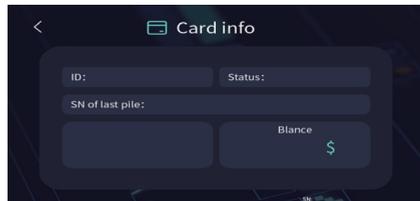
Charging Information

(5) Billing



Billing Information

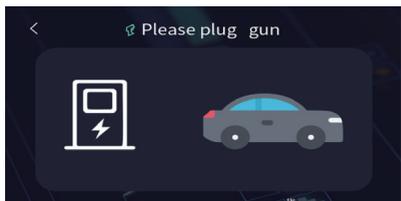
(6) Query IC Card Balance



Card Balance

2.4-5 Password Charging Process

(1) Please Plug the gun



Car Unconnected

(2) Click Password Mode



Choose Password Mode

(3) Click Password login



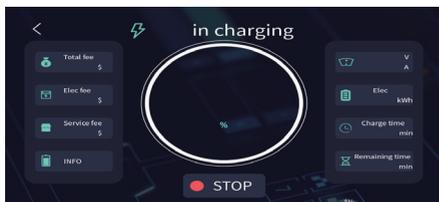
password login mode

(4) Input Password



password keyboard

(5) In Charging



Charging Information

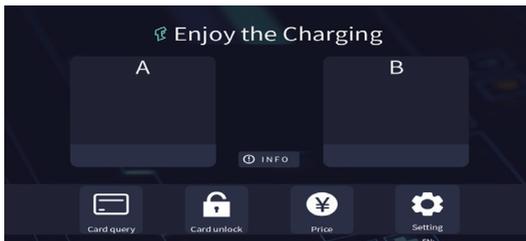
(6) Billing



Billing Information

2.4-6 Charging Fee setting

(1) Click "Settings" button on the above left corner of home page.



Enter "Administrator" interface

(2) Input Factory Initial Password "115200".



Input password

(3) Enter the parameter setting page, set the unit price of electricity, save and exit power off and restart.

RETURN		(S / kWh)				ELEC FEE:				SERVICE FEE:				SAVE	
		Sharp	Peak	Shoulder	Offpeak										
PERIOD	RATF	PERIOD	RATF	PERIOD	RATF	PERIOD	RATF	PERIOD	RATF	PERIOD	RATF	PERIOD	RATF	PERIOD	RATF
00:00-05:30		04:00-04:30		08:00-08:30		17:00-17:30		16:00-16:30		20:00-20:30					
06:30-09:00		04:30-05:00		08:30-09:00		17:30-17:00		16:30-17:00		20:30-21:00					
09:00-09:30		05:00-05:30		09:00-09:30		18:00-17:30		17:00-17:30		21:00-21:30					
09:30-09:00		05:30-06:00		09:30-10:00		17:30-18:00		17:30-18:00		21:30-22:00					
10:00-09:30		06:00-06:30		10:00-10:30		14:00-14:30		18:00-18:30		22:00-22:30					
10:30-09:00		06:30-07:00		10:30-11:00		14:30-15:00		18:30-19:00		22:30-23:00					
11:00-09:30		07:00-07:30		11:00-11:30		15:00-15:30		19:00-19:30		23:00-23:30					
11:30-09:00		07:30-08:00		11:30-12:00		15:30-16:00		19:30-20:00		23:30-24:00					

Electricity unit price setting page

(4) After restart,click the "Charging Rate" button in the upper right corner of home page, check if the electricity price setting is okay.



Charging fee information

(5) After enter,check the unit price,as below shown.

RETURN		(\$ / kWh)				units: cents				SAVE
ELEC FEE:		Sharp	Peak	Shoulder	Off-peak					
SERVICE FEE:										
PERIOD	RATE	PERIOD	RATE	PERIOD	RATE	PERIOD	RATE	PERIOD	RATE	
00:00-05:30		04:00-04:30		08:00-09:30		12:00-12:30		16:00-16:30		20:00-20:30
06:30-09:30		04:30-05:00		09:30-09:00		12:30-12:00		16:30-17:00		20:30-21:00
01:00-01:30		05:00-08:30		09:00-09:30		13:00-13:30		17:00-17:30		21:00-21:30
01:30-02:00		05:30-06:00		09:30-10:00		13:30-14:00		17:30-18:00		21:30-22:00
02:00-02:30		06:00-06:30		10:00-10:30		14:00-14:30		18:00-18:30		22:00-22:30
02:30-03:00		06:30-07:00		10:30-11:00		14:30-15:00		18:30-19:00		22:30-23:00
03:00-03:30		07:00-07:30		11:00-11:30		15:00-15:30		19:00-19:30		23:00-23:30
03:30-04:00		07:30-08:00		11:30-12:00		15:30-16:00		19:30-20:00		23:30-24:00

electricity rate

2.4-7 Charging Record

1. Check module status, Event Record, charging record, charging information...etc on the main interface.

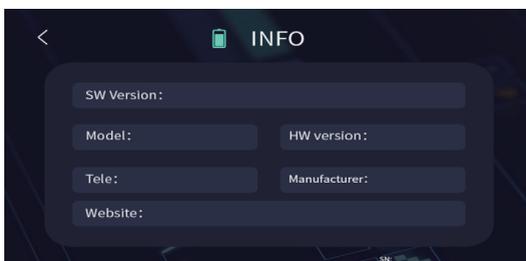


Module Parameters



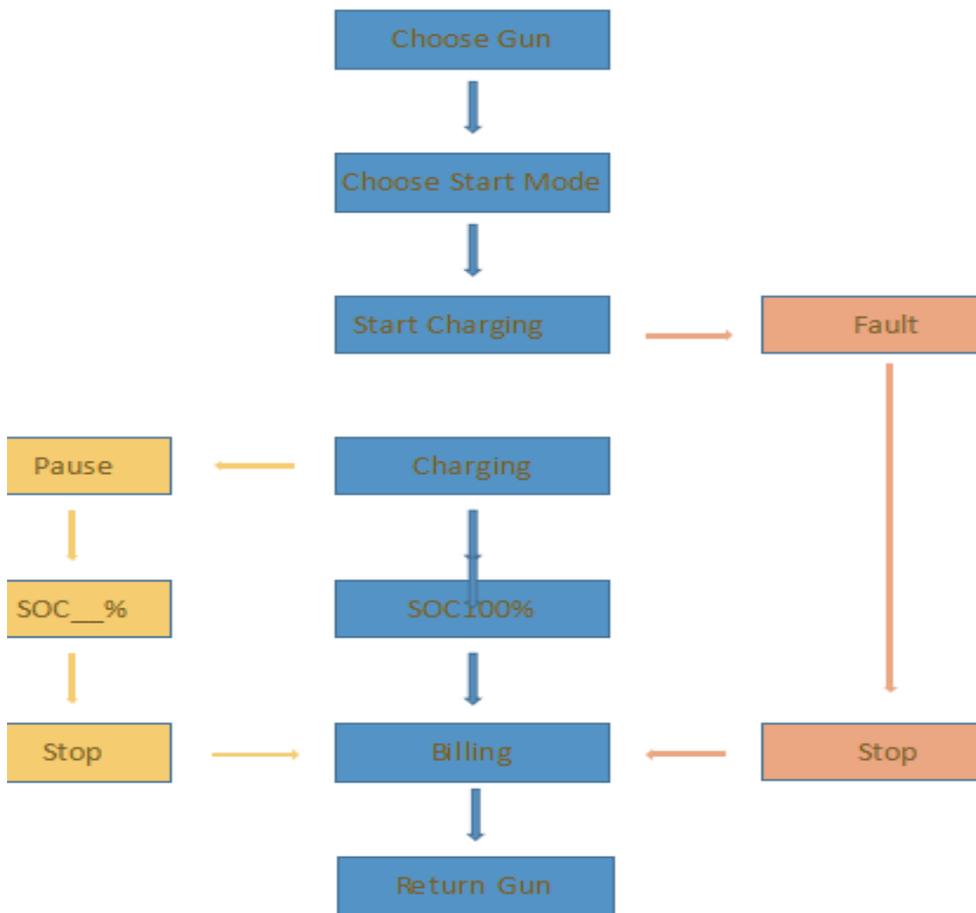
Event Record

2. For Single Gun Charger, The method to check motherboard program version No.



Homepage Information

2.4-8 Charging Procedure



The packaged equipment should be stored in a place with air circulation, -35°C~55 °C temperature, where the monthly average relative humidity is less than 90%.

3. Equipment storage and maintenance instruction

3.1 Storage Environment

3.1-1 Environment

The packed equipment should be stored in air circulation place, -35°C~55 °C temperature, where the monthly average relative humidity is less than 90%.

Equipment Name	Class I environment Limited storage period (years)	Class II environment Limited storage period (years)	Class III environment Limited storage period (years)	Remark
DC charger	1	0.8	0.5	

3.2 Storage Temperature

3.2-1 Temperature

The storage place should be free of corrosive and explosive gases, and should not be exposed to rain, sun, condensation and frost.

Storage environment conditions	Temperature	Relative Humidity %	Remark
I	15 ~ 25°C	Not more than 65 %	
II	-5 ~ 30°C	Not more than 75 %	
III	-35 ~ 55°C	Not more than 90 %	



It is forbidden to store with corrosive items in same place

3.3 Daily Check and maintenance

3.3-1 Charging Station

The Daily maintenance of DC charging pile ensure that it is always in good working condition. The main tasks are as follows:

1. Regularly check if any dust in the cavity and clean it, to prevent internal insulation from degradation.
2. Regularly check whether the ground wire is reliably grounded.
3. Regularly check if the cooling fan works normally, and replace the new same model fan in time if any damaged.
4. Regularly check the body ventilation status. For it is well ventilated, the dust-proof net of the side door needs to be cleaned regularly. It is suggested to clean the inside of the charging body every three months, In case of harsh environment, the user can shorten the cleaning interval time as per the situation. Disassembly and cleaning steps are as follows.
5. open left side door, pull out the dustproof filter, separate the black dustproof filter from the fixed bracket, and clean the dustproof filter net.
6. After black filter net is dry, connect the black dust filter to the fixed bracket, and insert the dust filter into the inner guide groove of the dust louver.
7. Regularly check the charging connection cable and winding tube. If any aging and worn off, it needs to be replaced in time to ensure safety. If the connector loosen, it needs to be tightened in time.

The maintenance operation is suggested to be done once a month. In case of harsh environment, the interval operation can be shortened depending on the specific situation.

3.3-2 Lightning arrester

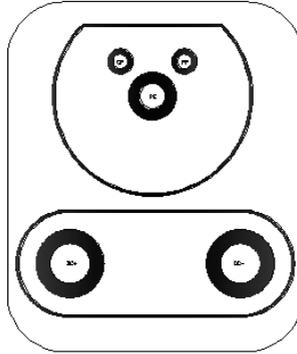
Regularly check if the inlet wire and outlet wire of the surge protector are loose, to prevent line fault caused by the aging of the surge protector and lines.

3.3-3 Dustproof Net

Regularly check the dust inside, and clean it on the cabinet and unit parts regularly. After power off, use vacuum cleaner or air compressor to clean the bottom, sides and unit parts.

3.3-4 Gun Seat

When the charging gun is not in use, it should be covered with dust cover or inserted into the holder to prevent any foreign objects. Use high-pressure air gun, brush to clean the gun and gun seat every week. If any accident like gun drop on ground, Please clean as above ways.



Gun Seat



Note: It is forbidden for non-professionals to disassemble the equipment.

4. Maintenance of Common Malfunction

	Fault	Reason	Measure
1	Detailed explanation of power failure		
1.1	Power supply system protection tripping	The cables inside the cabinet are peeled and grounded	Find the blackened part of the wire in the cabinet, replace it
1.2	After the circuit breaker trips, the system cannot be powered on	Press emergency stop button	Rotate and unlock the emergency stop button before operating
		Abnormal shutdown charging point	Reset circuit breaker OFF and then ON

2	Abnormal Status Detailed Explanation After power-on		
2.1	Display Screen not light up	power supply cable is loose	Fasten the power supply cable
2.2	Display buttons are unresponsive	Display screen installed too tight	Properly loosen the fastening screws on the back of the screen
		Display screen deformation	Check if the front door any deformation
		Display screen damaged	repair display screen
2.3	All fans not started	contractor not pull in	Check control circuit continuity
		Wiring Loosen	Check whether the fan power supply cable is loose
2.4	line blocked	Check whether the wiring is squeezed and disconnected	
2.5	line fault	Check the continuity of the corresponding line	
2.6	Fan damage	Replace new fan	
Note: Press "ON" button to close the circuit breaker. When the controller is running normally, the indicator light flashes rhythmically.			
3	Detailed Explanation Of Abnormal Charging		
3.1	Charging Communication Failed	Vehicle BMS does not start	Check charging plug PP input
		Communication line is loose	Check the internal wiring
3.2	The charging voltage is 0	Charging module failure	Contact Factory
		Output contactor not closed	Repair contactor KM1~KM2 or KM3~KM4
3.3	The charging current is 0	Charging module failure	Contact Factory
		Open-circuit fuse	Replace new fuse
3.4	No output on the charging gun	Line fault	Check whether the corresponding wiring is open or loose
		Contactor control line Open circuit	Check voltage with multimeter and tighten the line
		Contactor open circuit	Replace contacto
3.5	Output contactor not closed	Line fault	Check whether the corresponding wiring is open or loose
		Contactor control line Open circuit	Check voltage with multimeter and tighten the line
		Contactor open circuit	Replace new contacto
Note: After closing all the air switches and power on, start charging			

4	Detailed Explanation of other common faults		
4.1	Abnormal Stop Charging	overtime protection	Restart
		Temperature from vehicle BMS is too high	Recharge after the battery temperature cool down

5. Warranty

5.1. Warranty Period

This product is guaranteed for two years. During the warranty period from the date of receipt, operate correctly according to the instruction manual. If the equipment cannot be used due to quality problems, Our company will provide remote on-line technical maintenance services; If necessary, The related accessories can be provided within warranty period.

5.1. Warranty Period

During the installation and use of the charging pile, It is not covered by this warranty if any quality problems result from any operate non-compliance with the instruction manual or requirements.

1. Products exceeds the warranty period.
2. Failed to provide valid invoices or other valid sales documents.
3. The manufacture date, serial number, model name on the equipment label was altered and cannot be identified.
4. Damage caused by force majeure such as earthquakes, volcanic eruptions, tsunamis, hail, blizzards, floods, fires, lightning strikes, etc.
5. During charging pile operation, All the problems caused by removing the guns without stop/pause the charging process first.
6. All the problems caused by dismantling and refitting the charging pile without communicating with our company and without our permission.
7. Defects result from normal wear and tear or normal aging.
8. No corrosive gas, No flammable and explosive gas in usage scenario, Otherwise, the equipment is also not covered by the warranty.

5.3 Paid maintenance

If maintenance is required after the warranty period, the appropriate maintenance cost will be calculated based on the cost of parts and labor, and quotation will be offered to you, After obtain your consent, we will provide you with product maintenance services. This policy is formulated in strict accordance with the Consumer Protection Law and the Product Quality Law of the People's Republic of China.

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