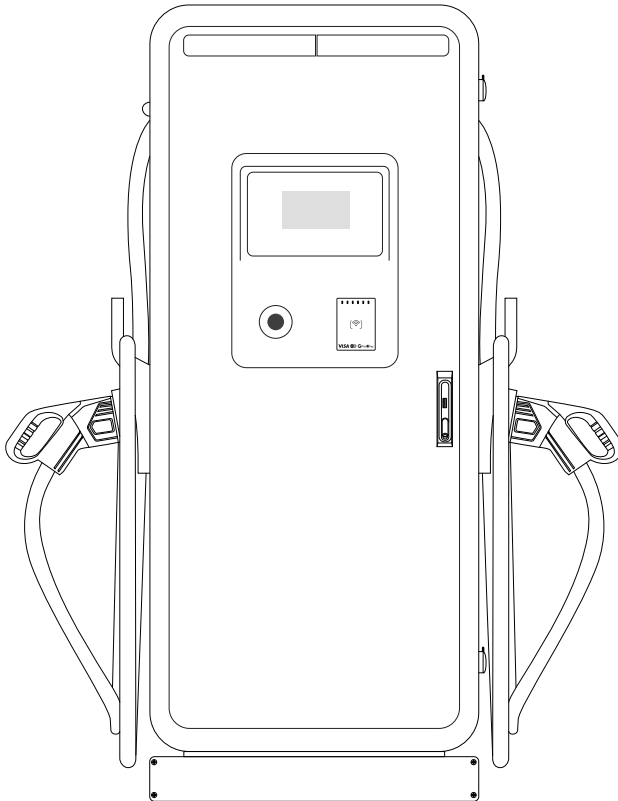


DC Series

60/80/120/160/180/240 KW L3D

DC Fast Charger

User Manual & Installation Instructions



Model: DC60-240 KW

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Introductions

The LinkPower DC Fast Charger is the top choice to power battery electric vehicles (BEV) and plug-in electric vehicles (PHEV). It is designed for quick charging in both public and private locations, such as retail and commercial parking spaces, fleet charging stations, highway service areas, workplace, residence, etc.

The LinkPower DC Fast Charger has the advantage of easy installation. The mounted design and plug-able power modules realize flexible and cost effective installation for different types of locations. The DC charger also has network communication capabilities. It is able to connect with remote network systems and provide drivers of electric cars real time information, such as the location of charging stations, charging progress and billing information. The Mount DC Fast Charger has a clear user interface with functional buttons, safety certificates and an excellent waterproof and dust proof design to provide the best choice for outdoor environments.

Features

- ⦿ Plug-able power modules make installation easy and flexible.
- ⦿ Offers customers the convenience of start/stop charging control from an authorized RFID smart card or mobile APP.
- ⦿ Built on latest industry standards for DC charging.
- ⦿ Carries an outdoor rating capable of withstanding solid and liquid intrusions in outdoor settings making the unit more stable and highly reliable.
- ⦿ Provides a high-contrast, screen interface with multi-function buttons.

Applications

- ◇ Public and private parking areas
- ◇ Community parking areas
- ◇ Parking areas of hotels, supermarkets and shopping malls
- ◇ Workplace parking areas
- ◇ Charging stations
- ◇ Highway rest areas

1. Safety Instructions

1.1. Warnings & Cautions

WARNING



To avoid fire, injury or death, read and follow the instructions carefully during installation, operation and maintenance.

DO NOT put fingers into the electric vehicle connector.

DO NOT use this product if the power cord or EV cable is frayed, insulation-broken, or any other signs of damage.

DO NOT use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage.

DO NOT remove cover or attempt to open the enclosure because of risk of electric shock.



This device should be supervised when used around children.



This device must be grounded.



To avoid the risk of fire or electric shock, do not use this device with an extension cord.



The suitability of the use of flexible cord in accordance with CE code, part I, rule 4-012, is to be determined by the local inspection authority.



To reduce the risk of fire, connect only to a circuit provided branch circuit over-current protection in accordance with the CSA C22. 1 – 15 Canadian Electrical Code, Part 1 (Canada) or NOM-001-SEDE Electrical installations (utility) (Mexico) or ANSI / NFPA 70 National Electrical Code (USA).

Circuit Breaker Options

| Output Power | 60kW | 80kW | 120kW | 160kW | 180kW | 240kW |
|-----------------------------|------|------|-------|-------|-------|-------|
| Circuit Breaker Options (A) | 100A | 150A | 225A | 265A | 315A | 400A |

1.2 SAFETY INSTRUCTIONS

Before Installation

- Read all the instructions before using and installing this product.
- Do not use this product if power cable or charging cable have any damage.
- Do not use this product if the enclosure or charging connector are broken or open or if there is damage.
- Do not put any tool, material, finger or other body part into the charging connector or EVconnector.



Warning: The product should be installed only by a licensed contractor and/or licensed technician in accordance with all building codes, electrical codes and safety standards.



Warning: The product should be inspected by a qualified installer prior to initial use. Under no circumstances will compliance with the information in this manual relieve user of his /her responsibilities to comply with all applicable codes and safety standards.

IMPORTANT SAFETY INSTRUCTIONS

- **SAVE THESE INSTRUCTIONS**- This manual contains important instructions that shall be followed during installation, operation and maintenance of the unit.
- Powerfeed must be 3 Phase Wye configuration TT grounding systems.
- The product should be installed in free air area and keep at least 30cm clearance distance to all air vent of the product.
- Need sufficient space for product installation and maintenance, please keep not less than 60cm clearance distance from all around the product.

1.3 Grounding and Safety Requirement

- The product must be connected to a grounded, metal, permanent wiring system. Connections shall comply with all applicable electrical codes.
- Ensure no power is connected at all times when installing, servicing, or maintaining the charger.
- Use appropriate protection when connecting to main power distribution network.
- Use appropriate tools for each task.



CAUTION: The disconnect switch for each un-grounded conductor of AC input shall be provided by installation contractor or technician.



CAUTION: A cord extension set or second cable assembly shall not be used in addition to the cable assembly for connection of the EV to the EVSE.

1.4 Daily Maintenance

CAUTION



Avoid moisture or water in the charger. If there is water or moisture ingress in the charger, it is necessary to immediately power off to avoid immediate danger and notify the professionals to carry out maintenance before next use.



Please use the charger properly. Do not hit or press hard on the enclosure. If it is damaged, please contact a professional technician.



Avoid placing the charger near hot objects and at high temperature locations and away from dangerous substances such as flammable gases and corrosive materials.



To avoid any danger, please do not put any heavy objects on the charger.

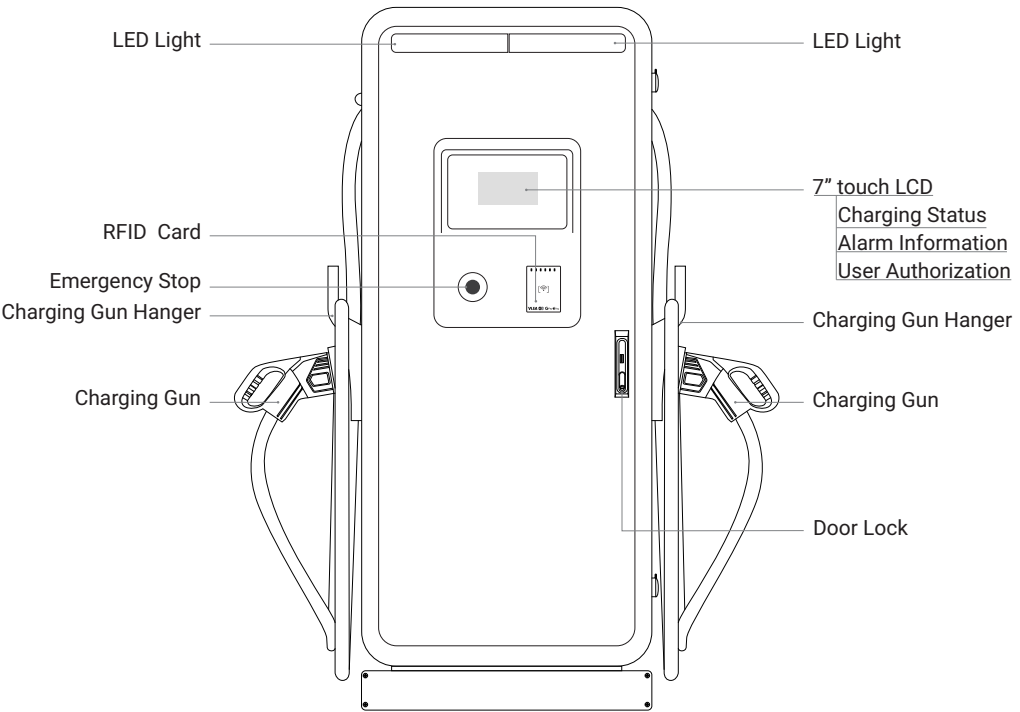
2. Specification

2.1. Product Specification

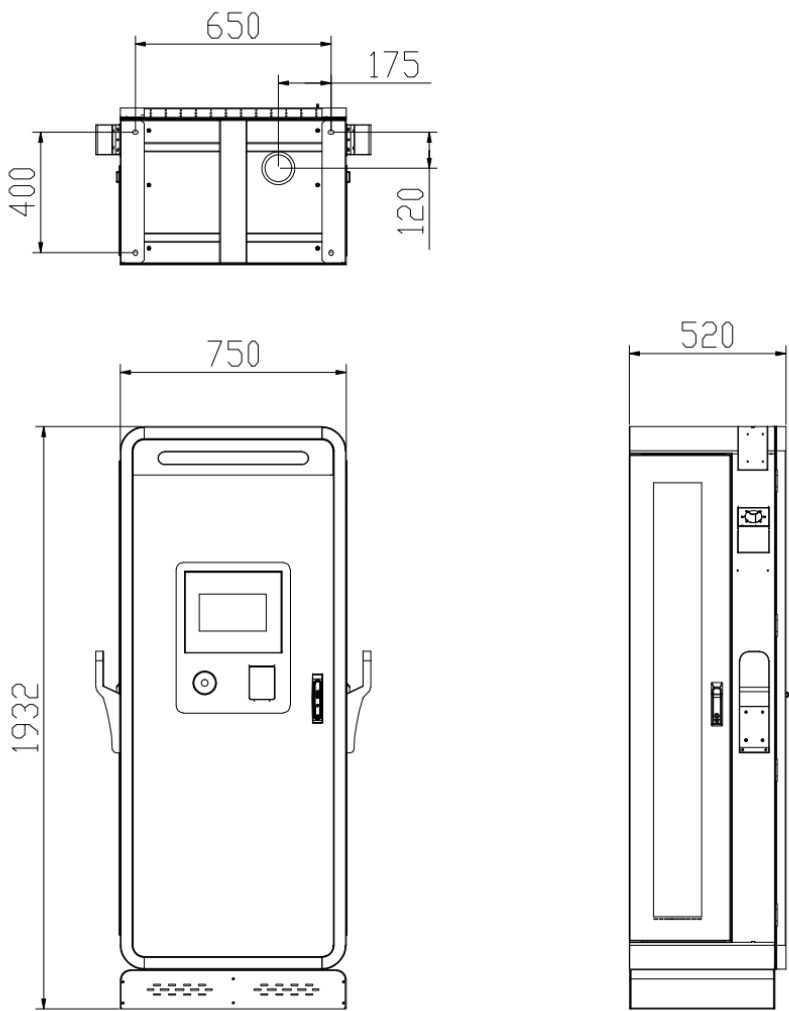
| Model Name | | L3S-DC60kW | L3S-DC80kW | L3S-DC120kW |
|--------------------------|---------------------------|---|------------|-------------|
| Power Input | Phases /Lines | 3 Phase+PE+N | | |
| | Voltage | 480Vac(±10%) | | |
| | Frequency | 60Hz | | |
| Power Output | Charging Outlet | CCS1/NACS*2/CCS1+NACS | | |
| | Voltage(DC) | CCS: 200~1000VDC | | |
| | Current(Max) | 200A | | |
| | Power(Max) | 60kW | 80kW | 120kW |
| | Measuring accuracy | Level 0.5 | | |
| User Interface & Control | Display | LCD7/10 inch Touch Screen | | |
| | LED Indicator | Yes | | |
| | Push Buttons | Emergency Button | | |
| | Efficiency | > 95% | | |
| | User Authentication | RFID(ISO/IEC 14443 A/B), APP | | |
| Technical features | RCD | Type AC 30mA | | |
| | Energy Meter | ETL certified | | |
| Communication | Network Interface | Ethernet, Wi-Fi or 3G/4G Optional | | |
| | Communication Protocol | OCPP1.6 J/OCPP2.0.1 Upgradeable | | |
| Environment | Operating Temperature | -22 °F to 122 °F ,will derating from 131 °F or above | | |
| | Humidity | Max.95%(non-regulating) | | |
| | Application place | Indoor/Outdoor | | |
| | Installation method | Wall mount, pedestal mount (optional) | | |
| | Altitude | ≤ 6562ft(2000m), No Derating | | |
| | Sound noise | <55DB in all directions | | |
| | IP/IK Level | Type 3R/IK10 | | |
| Mechanical | Cabinet Dimension (W×D×H) | 76.06"×29.53"×20.47" (1932mm×750mm×520mm) | | |
| | Gross Weight | 136~150lbs(300-330kgs) | | |
| | Cable Length | 18ft(5.5m)(Standard) | | |
| Safety Protection | Security design | Over/under voltage protection, overload protection, current leakage protection, grounding protection, lightening surge Isolation protection | | |
| Certifi cation | Versatility | Conform to UL2202,UL2231-1/-2 | | |
| Warranty | | 2 years | | |

| Model Name | | L3S-DC160kW | L3S-DC180kW | L3S-DC240kW |
|--------------------------|---------------------------|---|-------------|-------------|
| Power Input | Phases /Lines | 3P+PE+N | | |
| | Voltage | 480Vac(±10%) | | |
| | Frequency | 60Hz | | |
| Power Output | Charging Outlet | CCS1/NACS*2/CCS1+NACS | | |
| | Voltage(DC) | CCS: 200~1000VDC | | |
| | Current(Max) | 200A | | |
| | Power(Max) | 160kW | 180kW | 240kW |
| | Measuring accuracy | Level 0.5 | | |
| User Interface & Control | Display | LCD7/10 inch Touch Screen | | |
| | LED Indicator | Yes | | |
| | Push Buttons | Emergency Button | | |
| | Efficiency | > 95% | | |
| | User Authentication | RFID(ISO/IEC 14443 A/B), APP | | |
| Technical features | RCD | Type AC 30mA | | |
| | Energy Meter | ETL certified | | |
| Communication | Network Interface | Ethernet, Wi-Fi or 3G/4G Optional | | |
| | Communication Protocol | OCPP1.6 J/OCPP2.0.1 Upgradeable | | |
| Environment | Operating Temperature | -22 °F to 122 °F ,will derating from 131 °F or above | | |
| | Humidity | Max.95%(non-regulating) | | |
| | Application place | Indoor/Outdoor | | |
| | Installation method | Wall mount, pedestal mount (optional) | | |
| | Altitude | ≤ 6562ft(2000m), No Derating | | |
| | Sound noise | <55DB in all directions | | |
| | IP/IK Level | Type 3R/IK10 | | |
| Mechanical | Cabinet Dimension (W×D×H) | 76.06"×29.53"×20.47" (1932mm×750mm×520mm) | | |
| | Gross Weight | 145~167lbs(320-370kgs) | | |
| | Cable Length | 18ft(5.5m)(Standard) | | |
| Safety Protection | Security design | Over/under voltage protection, overload protection, current leakage protection, grounding protection, lightening surge Isolation protection | | |
| Certifi cation | Versatility | Conform to UL2202,UL2231-1/-2 | | |
| Warranty | | 2 years | | |

2.2. Basic User Interface



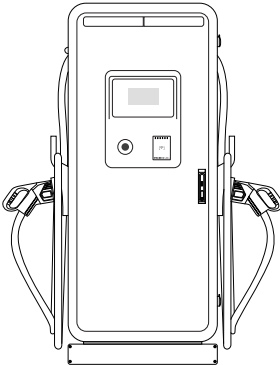


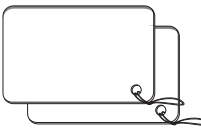

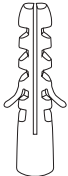

2.3. Dimmensions



480V Three-Phase Wiring Connection

3. Installation Instruction

3.1. Unpack the charger

| | | |
|---|---|---|
|  |  |  |
| | User Manual (x1) | SD card(x1) |
|  |  | |
| | | |
| Charger(x1) | RFID CARD (x2) | Key (x2) |
|  |  | |
| Φ16 Expansion Pipe (x6) | M12*60 Screw (x6) | |

3.2. Recommended Tools for Installation and Inspection

3.2.1. Recommended Tools for Installation

| Type | Description |
|-----------------------------------|------------------------------------|
| Phillips Screwdriver | No. 2 and 3 |
| Shifting Wrench | 8" (24mm) |
| Ball-Head Hex Key | 2.5mm and 5mm |
| Socket Screwdriver | No. 8 ,10 and 17 |
| Electrical Tape | Black / 15mm Width |
| AC Input Cable of 60KW | 3AWG Cable x 5 (L1,L2,L3,N,PE) |
| AC Input Cable of 80KW | 2AWG Cable x 5 (L1,L2,L3,N,PE) |
| AC Input Cable of 120KW | 1/0AWG Cable x 5 (L1,L2,L3,N,PE) |
| AC Input Cable of 160KW | 2/0AWG Cable x 5 (L1,L2,L3,N,PE) |
| AC Input Cable of 180KW | 3/0AWG Cable x 5 (L1,L2,L3,N,PE) |
| AC Input Cable of 240KW | 4/0AWG Cable x 5 (L1,L2,L3,N,PE) |
| Crimping Pliers for Ring Terminal | Applied for 70- 150mm ² |
| Machine Drill | |
| Wire Cutters | |
| Level Ruler | |

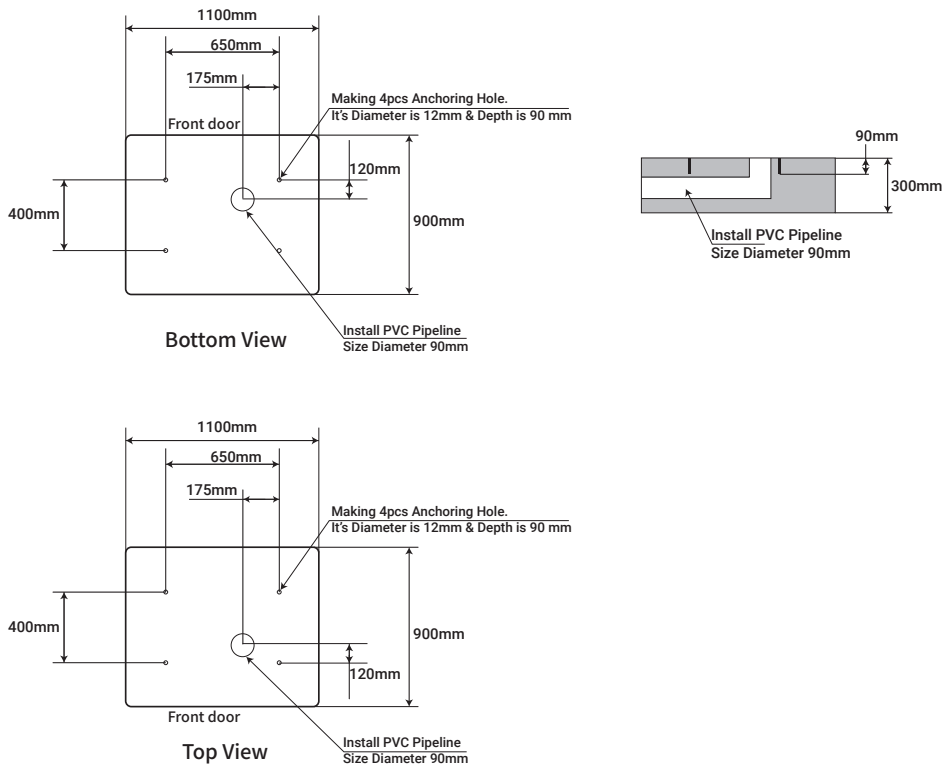
3.2.2. Recommended Tools for Inspection & Commissioning

| Type | Description |
|---------------------------|---------------------------|
| EV or EV Simulator | Meet CCS1 standard |
| Multiple Meter | 1000V |
| Current Probe | 300Amp |
| RFID Authorized Card | |
| RFID No Valid Card | |
| Door Key | |
| Needle-Nose Plier | |
| Laptop or PC & CAT6 cable | For Charger Configuration |

3.3. Installation ProcedureTaking 120KW as an example

STEP 1

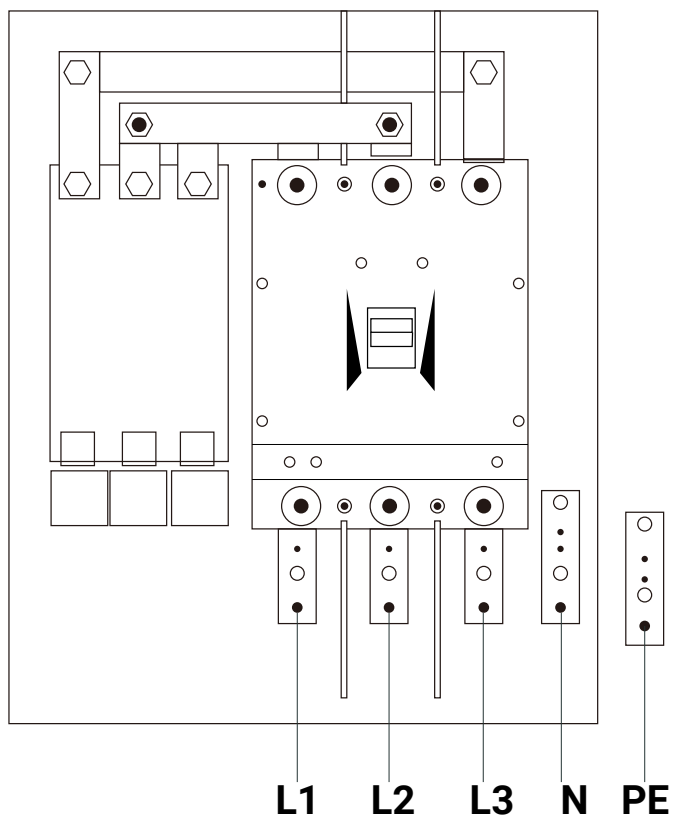
Place the mounted bracket between 600mm (24 inches) and 1.2m (4 feet) above the floor, and then attach 4 pcs 3/8" expansion screws to the mounted bracket. (Unit: mm)



STEP 2

INSTALLING THE AC INPUT CONNECT.

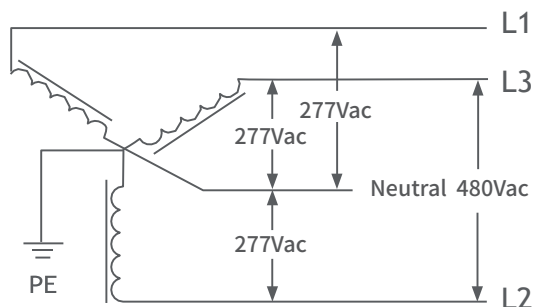
Please use XLPE power cables or equivalent for AC input connection, power cable outer diameter is between 32 and 40mm. Each wire shall be crimped with the corresponding terminal before feeding. And then feeding the cable from bottom side and passing through the cable gland. L1, L2, L3, N, and PE are connected to the docking terminals as shown in the figure below.





CAUTION!

This is feed from Wye-connection power grid, the Wall Mount DC Fast Charger can connect to L1, L2 or L3, and Neutral. Earth ground must be connected to neutral at only one point, usually at the breaker panel.



DANGERS

Be Aware of High Voltage!



WARNING!

Earth Connection is Essential!

3.4. Installation Inspection&Commissioning

3.4.1. Environmental Check

| Item | Status | Remark |
|--------------------------|--------|-------------------------------|
| Ambient Temperature | | |
| Ambient Humidity | | |
| Sunshade | | Recommended but not required. |
| Rain Canopy | | Recommended but not required. |
| Air Circulation / Drafty | | |
| Dust Level | | |
| Anti-Vandalism Measures | | |

3.4.2. External Infrastructure Readiness & Check

| Item | Status | Remark |
|---------------------------------|--------|--|
| Input Wirings & Terminals | | Type/ Length/ Cross Section |
| Key & Lock of Cabinet Door | | |
| Fixing Screws | | Type / No |
| No Fuse Breaker (NFB) | | Notice: Current rating of NFB shall be higher than 63 Amp |
| Residual Current Device (RCD) | | Notice: Maximum RCD residual current shall not excess 30mA |
| Input Electricity Capacity | | |
| Input Electricity Configuration | | Wye |
| Grounding Resistance | | <50Ω |
| Grounding System | | |
| Input Voltage & Frequency | | |
| Network Connection & Quality | | LAN/ Wi-Fi/4G |

3.4.3. EVSE Check – Static (Non-Powered)

| Item | Status | Remark |
|-----------------------------|--------|--------|
| Outlook | | |
| Labeling & Warning Signs | | |
| Package (Accessory) List | | |
| Robustness of Input Wirings | | |

3.4.4. EVSE Check - Power On

| Item | Status | Remark |
|--------------------------------|--------|--------|
| Screen On | | |
| Acoustic Noise | | |
| Screen Display & Function | | |
| Time Display Correctly | | |
| Network Connection Quality | | |
| Cooling Fans Operation & Noise | | |
| Led Status Indication | | |
| EVSE Setting | | |
| Function of Engineer Mode | | |
| Version of H.W. & F.W. | | |
| Remote Control & Monitoring | | |
| Backend Server Connection | | |

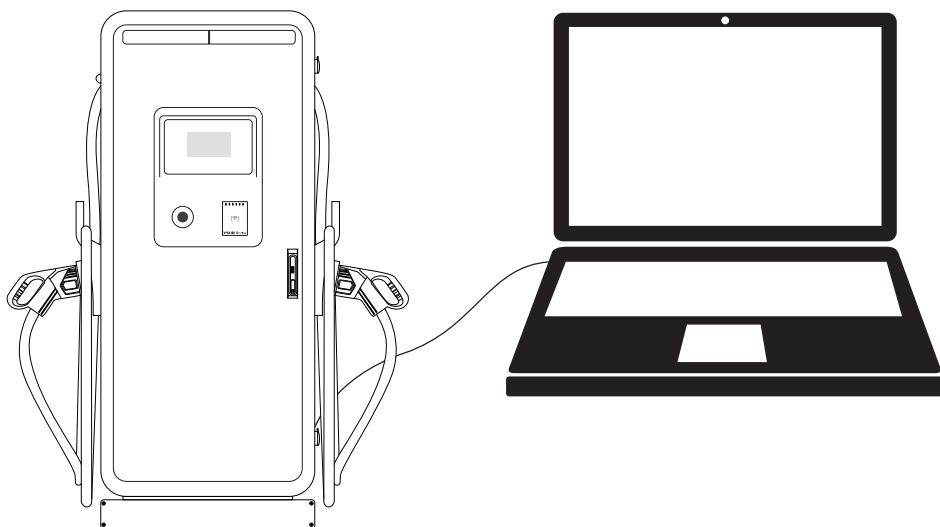
3.4.5. EVSE Check - Charging

| Item | Status | Remark |
|----------------------------------|--------|--------|
| User Authorization –RFID | | |
| User Authorization –QR Code | | |
| User Authorization –Others. | | |
| Waiting Time of Connection Check | | |
| Reading of Each Display Item | | |
| Full Charge Test | | |
| Function of Electronic Lock | | |
| Reading of Eng neer Mode | | |
| Airflow & Noise of Cooling Fan | | |
| Charging Record (log) Upload | | |
| Remote Control & Monitoring | | |

3.4.6. EVSE Check –System Power Button

| Item | Status | Remark |
|-----------------------|--------|--------|
| Emergency Stop Button | | |

3.4.7. NetworkSetting



3.4.8. Wi-Fi Network Setting

Laptop with RJ45 interface.

Connect RJ45 cable from Laptop to charger's RJ45 port.

Setup parameters in the Web service.

STEP 1

Open web service browser, type the IP address of charger "192.168.2.5:8080" into the URL bar to access the web

page of charger.

User: admin

Password: 12345678

Please Login

Login

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STEP 2

1. Select Wi-Fi Module

Select Wi-Fi modes and fill in SSID and Password according to your application, if not required, just keep default.

2. Version number, charging pile number Server address can be changed&set;

| Charging pile web page management | | | | |
|---|---|---|---------------------------------------|--|
| Management Web Menu <hr/> Charger Parameters <hr/> Administrator Information <hr/> Firmware Updating <hr/> RFID Parameters | Charger Parameters Information | | | |
| | Firmware Version Num: | <input type="text" value="DC180K_CC_V01.0320"/> | Language Set: | <input type="text" value="English"/> |
| | Card Pin(6 digits, E.g:123456): | <input type="text" value="242007"/> | | |
| | Charge ID(MaxLen 18): | <input type="text" value="3403000006"/> | Max Output Power(150KW): | <input type="text" value="40.0"/> |
| | Authentication Key(MaxLen 20): | <input type="text" value="12345678"/> | Charge Mode: | <input type="text" value="APP"/> |
| | Charger IP: | <input type="text" value="192.168.100.29"/> | | |
| | Subnet Mask: | <input type="text" value="255.255.255.0"/> | Default Gateway: | <input type="text" value="192.168.100.1"/> |
| | Charger DNS: | <input type="text" value="8.8.8.8"/> | Net MAC Address: | <input type="text" value="50:88:F8:32:D2:1A"/> |
| | WIFI SSID(MaxLen 32,Not bear ','):) | <input type="text" value="mate"/> | WIFI Key(MaxLen 16,Not support ','):) | <input type="text" value="*****"/> |
| | Server URL: | <input type="text" value="ws://sbs.bytesnap.co.uk:8887/ocpp/ws"/> | Charging Rate : | <input type="text" value="0.00"/> |
| | 4G User Name: | <input type="text"/> | 4G User Password: | <input type="text"/> |
| | 4G APN: | <input type="text" value="Default"/> | | |
| | <div style="background-color: #333; color: white; padding: 5px 10px; display: inline-block;">Set and Reboot</div> | | | |

| Charging pile web page management | | | | |
|---|------------------------------------|--------------------------------------|--------------------------------------|-------------------|
| Management Web Menu Charger Parameters Administrator Information Firmware Updating RFID Parameters | Charger Parameters Information | | | |
| | Firmware Version Num: | DC180K_CC_V01.0320 | Language Set: | English |
| | Card Pin(6 digits, E.g:123456): | 242007 | | |
| | Charge ID(MaxLen 18): | 3403000006 | Max Output Power(150KW): | 40.0 |
| | Authentication Key(MaxLen 20): | 12345678 | Charge Mode: | APP |
| | Charger IP: | 192.168.100.29 | | |
| | Subnet Mask: | 255.255.255.0 | Default Gateway: | 192.168.100.1 |
| | Charger DNS: | 8.8.8.8 | Net MAC Address: | 50:88:F8:32:D2:1A |
| | WIFI SSID(MaxLen 32,Not bear ','): | mate | WIFI Key(MaxLen 16,Not support ','): | ***** |
| | Server URL: | ws://sbs.bytesnap.co.uk:8887/ocpp/ws | Charging Rate : | 0.00 |
| 4G User Name: | | 4G User Password: | | |
| 4G APN: | Default | | | |
| Set and Reboot | | | | |

STEP 3

Set the number and type of charging piles,
Module type and number. temperature. Meter etc can be changed also;

| Charging pile web page management | | | | |
|---|---------------------------|--------|-------------------------|---------|
| Management Web Menu Charger Parameters Administrator Information Firmware Updating RFID Parameters | Administrator Information | | | |
| | NTC type | NTC10K | Power module type: | UUUV |
| | Number of guns: | 2 | Power module power(KW): | 40 |
| | Gun 1: | GB | Power module number: | 2 |
| | Gun 2 | CCS2 | Electricity meter type: | CHAdcMo |
| | Gun 3: | | | |
| | Set and Reboot | | | |
| | | | | |
| | | | | |
| | | | | |

STEP 4

Fireware Updating:
Select an upgrade file to perform the upgrade

Charging pile web page management

Management Web Menu

Charger Parameters

Administrator Information

Firmware Updating

RFID Parameters

Firmware Updating Information

选择文件

未选择任何文件

submit

STEP 5

RFID Parameter

Select the rfid file to import the binding card function

Charging pile web page management

Management Web Menu

Charger Parameters

Administrator Information

Firmware Updating

RFID Parameters

RFID Parameters

RFID:

Add

选择文件

未选择任何文件

submit

4. Operation Process

4.1. RGB LED indicators

| Charger status | LED performance |
|--------------------|--------------------|
| Standby | green blink |
| plug in | yellow |
| swipe/punch a card | yellow |
| charging | Light green breath |
| Fault status | Red flashing |

4.2. LCD indicators

the LINKPOWER Charger config a 7-inch LCD screen, which is mainly used to display various status information of the charging station.

Icons or instructions in each display area.

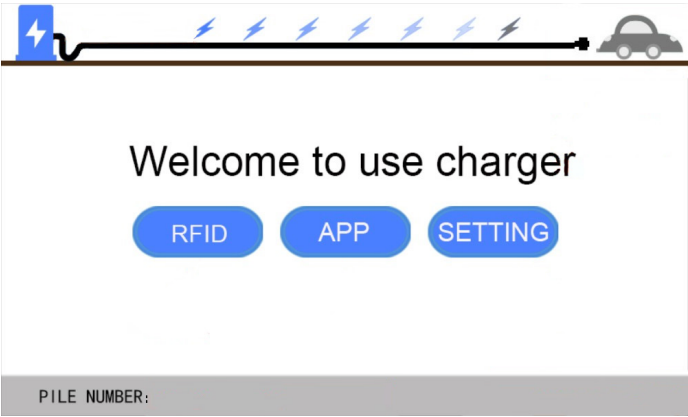


Fig. 1-2 Display of icons and instructions

In Fig. 1-2, there are three areas to display icons or instructions, with the specific meanings as follows:

| No. Area ① | Icon | Description |
|---------------|----------|---|
| 1 | | Connected a network through 4G cellular |
| 2 | | Connected a network through WIFI |
| 3 | | Connected a network through Ethernet |
| Area ② | | |
| 4 | Version | Software version |
| 5 | SN | Serial number of EVSE |
| Area ③ | | |
| 5 | status | EVSE status information |
| Area ④ | | |
| 6 | Settings | Set charging station parameters |

As shown in Fig. 1-3,1-4,1-5,1-6, the LCD screen displays 4 types picture in normal state.

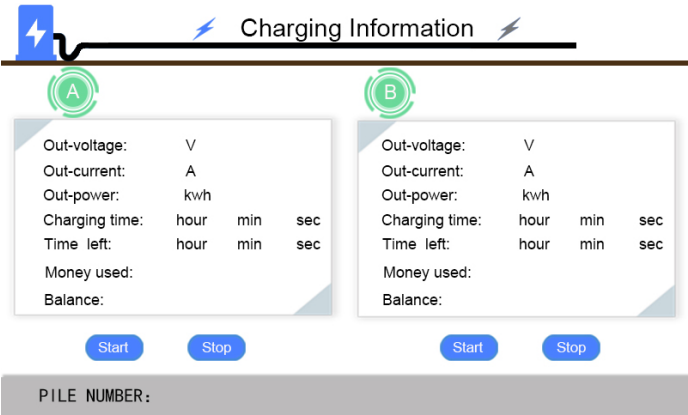


Fig. 6-3 Display of Preparing

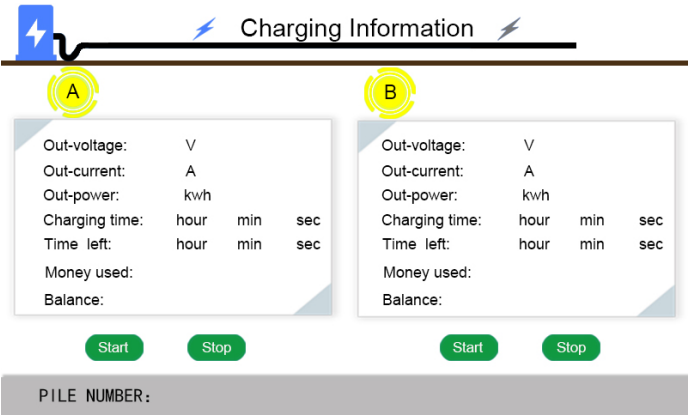


Fig. 6-4 Display of Charging

Click the settings icon three times to enter the settings interface, the picture displayed on the LCD screen is shown in Fig. 6-6.

Enter password: 1234



Fig. 6-4 Display of Charging

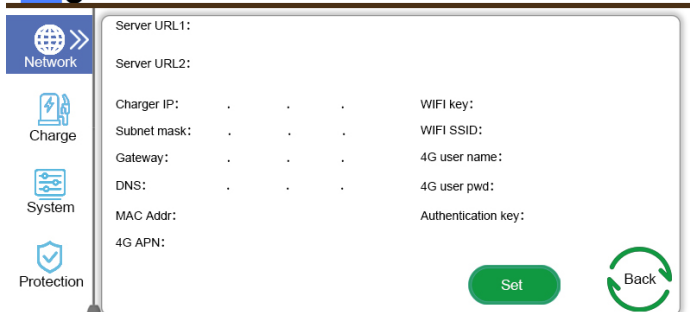
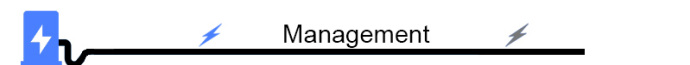
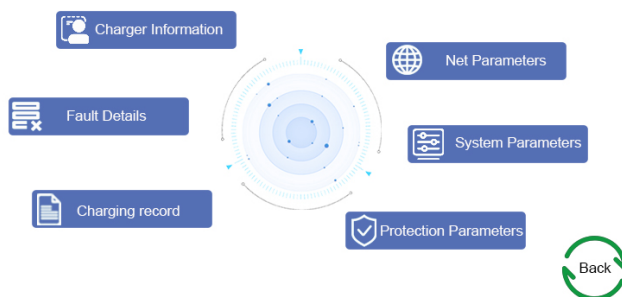
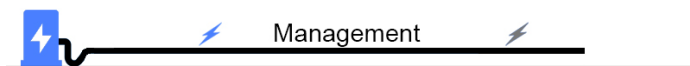


Fig. 6-6 Display of Network Setting

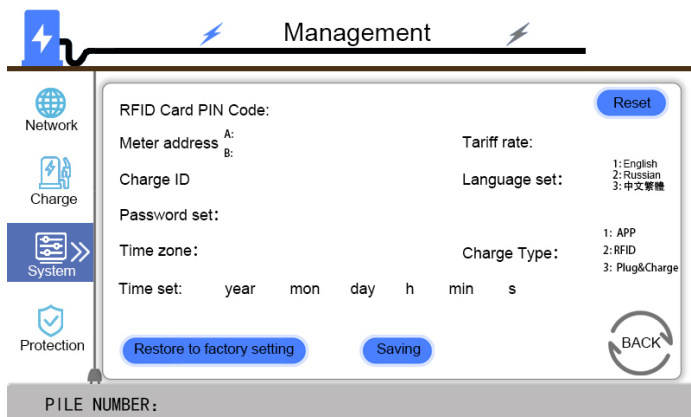


Fig. 6-7 Display of System Setting

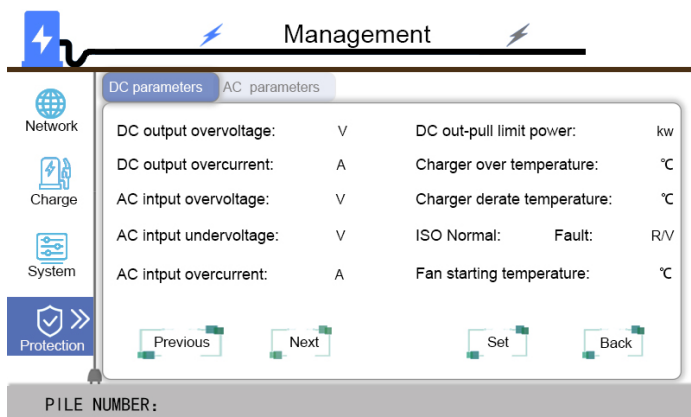
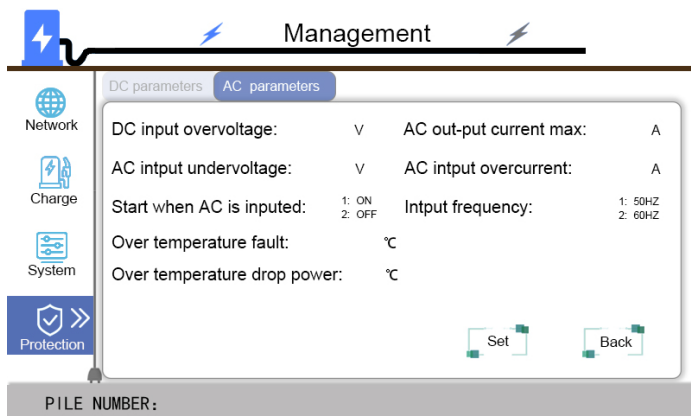


Fig. 6-8 Display of Protection Parameters Setting

If the charging process fails or the equipment fails, the picture displayed on the LCD screen is shown in Fig. 6-10.

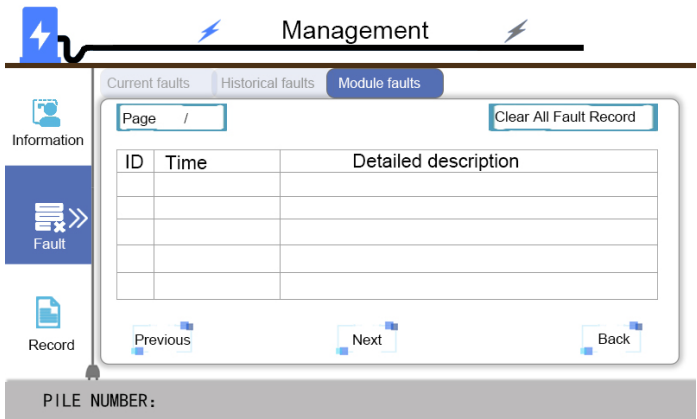


Fig. 6-10Display of fault state

Machine type factory Settings page, the picture displayed on the LCD screen is shown in Fig. 6-11

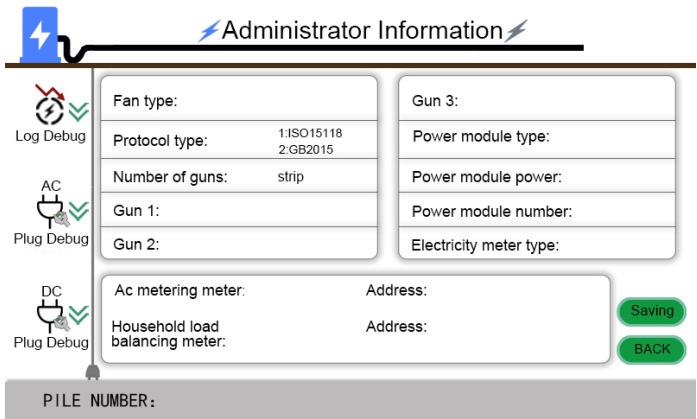
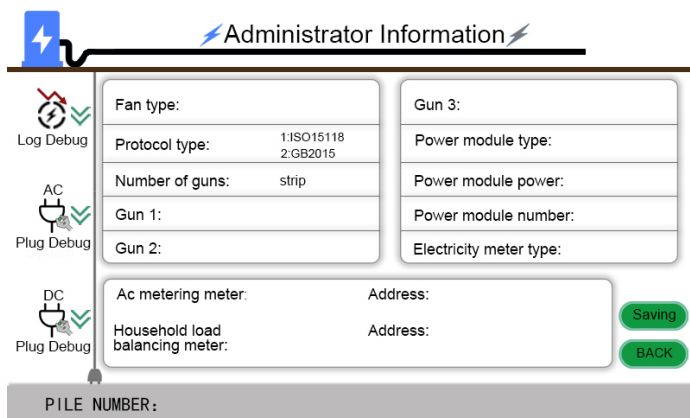


Fig. 6-11 Display of factory Settings



Administrator Information

Log Debug

AC Plug Debug

DC Plug Debug

| | | |
|-----------------|------------------------|-------------------------|
| Fan type: | | Gun 3: |
| Protocol type: | 1:ISO15118 2:GB2015 | Power module type: |
| Number of guns: | strip | Power module power: |
| Gun 1: | | Power module number: |
| Gun 2: | | Electricity meter type: |

| | |
|---------------------------------|----------|
| Ac metering meter: | Address: |
| Household load balancing meter: | Address: |

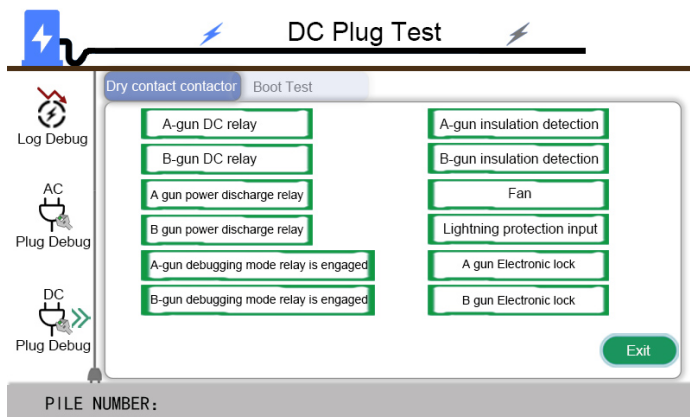
SAVING

BACK

PILE NUMBER:

Fig. 6-11 Display of factory Settings

Factory debugging page, the picture displayed on the LCD screen is shown in Fig. 6-12.



DC Plug Test

Dry contact contactor Boot Test

Log Debug

AC Plug Debug

DC Plug Debug

| | |
|---------------------------------------|----------------------------|
| A-gun DC relay | A-gun insulation detection |
| B-gun DC relay | B-gun insulation detection |
| A gun power discharge relay | Fan |
| B gun power discharge relay | Lightning protection input |
| A-gun debugging mode relay is engaged | A gun Electronic lock |
| B-gun debugging mode relay is engaged | B gun Electronic lock |

Exit

PILE NUMBER:

Fig. 6-12 Facoty debugging page

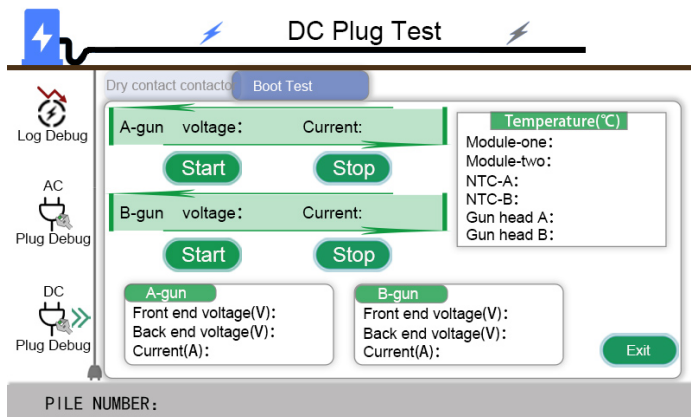


Fig. 6-12 Facoty debugging page

4.3. Troubleshooting

- Please follow the instruction in the table when errors occur during the charging process
- Or please contact the DC Charger provider for further instructions
- Fan emergency occurs: Push the emergency stop button to stop charging immediately

4.4. Status Codes

*For latest status code, please visit our website.

| Status Code | Description | Solution |
|-------------|--|--|
| 0001 | Emergency stop | If no fault occurs, please rotate the button clockwise to reset the charger. |
| 0002 | CCS output fuse blew | If fault occurs, please check & replace the fuse. |
| 0003 | AC input contactor 1 welding | If fault occurs, please check & replace the contactor. |
| 0004 | CCS output relay welding | If fault occurs, please check & replace the Relay. |
| 0005 | CCS connector temperature sensor broken | If fault occurs, please check & replace the sensor. |
| 0006 | Relay control module / smart box broken | If fault occurs, please check & replace the Relay control module. |
| 0007 | CCS Power module fault | If fault occurs, please replace the CCS Power module. |
| 0008 | Maximum Output Current setup error | If fault occurs, please reset the correct value. |
| 0009 | Maximum Output Voltage setup error | If fault occurs, please reset the correct value. |
| 0010 | BLE module broken | If fault occurs, please replace the BLE module. |
| 0011 | 4G module broken | If fault occurs, please replace the 4G module. |
| 0012 | Ethernet BLE module broken | If fault occurs, please replace the Ethernet BLE. |
| 0013 | wifi module broken | If fault occurs, please replace the wifi module. |
| 0014 | CCS connector OTP | If fault occurs, please check & reset the OTP value. |
| 0015 | SPD trip | If fault occurs, please replace the SPD Module. |
| 0016 | CCS ground fault detection timeout (GFD) | If fault occurs, please check the Ground line. |
| 0017 | RFID module communication fail | If fault occurs, please check Communication line with RFID. |
| 0018 | Power module communication fail | If fault occurs, please check can line with power module. |
| 0019 | Door open | If fault occurs, please closed the door & recharge with vehicle. |
| 0020 | System fan decay | If fault occurs, please replace the fan. |
| 0021 | AC Ground Fault | If fault occurs, please check the Ground line. |
| 0022 | CCS EV communication Fail | If fault occurs, please check Connecting wire with vehicle. |

5. MainTenance

5.1. General Maintenance

- The DC Fast Charger is cooled by forced air. Please keep charger in a ventilated location and do not block the air vents of the DC Fast Charger .
- Please clean or replace the air filters regularly to ensure the DC Fast Charger works properly.
- Clean the DC fast Charger at least three times a year, keep the exterior clean at all times.
- Clean the outside of the cabinet with damp cloth or wet cotton towel, only use low-pressure tap water and cleaning agents with PH level between 6 to 8.
- Do not apply high-pressure water jets.
- Do not use cleaning agents with abrasive components and do not use abrasive tools. Improper cleaning agents might spoiled coating, painting, surface, bright- ness and durability of all exterior parts.
- If there is water intruding into the DC Fast Charger then please cut off the power source immediately and contact the DC Fast Charger provider for repair.
- Please make sure the charging connector is returned to the holder of the charging connector after charging to prevent damage.
- If there is damage to the charging connector, charging cable or holder of the charging connector then please contact the DC Fast Charger provider.
- When using the DC Fast Charger please handle properly. Do not strike or scrape the cabinet or touch screen.
- If the enclosure or touch screen is broken, cracked, open or shows any other indi- cation of damage then please contact the Standalone DC Fast Charger provider.



WARNING: Danger of electrical shock or injury. Turn OFF power at the panelboard or load center before working on the equipment or remov- ing any component. Do not remove circuit protective devices or any other component until the power is turned OFF.

- Disconnect electrical power to the DC Fast Charger before any maintenance work to ensure it is separated from the supply of AC mains. Failure to do so may cause physical injury or damage to the electrical system and charging unit.

Note:

- Before switching off main breaker to begin maintenance, please record the status code number on the LCD monitor.
- After switching off the key switch the circuit before the main terminal is still hazardous. Only visual inspection can be operated.
- Maintenance of the DC Fast Charger shall be conducted only by a qualified technician.
- After opening the front door of the DC Fast Charger, turn off the main breaker and auxiliary breaker before any maintenance work.
- Replace the ventilation filter every six to twelve months.

5.2. Limited Product Warranty

The warranty period for this charger is two years.

Any spare parts provided by LinkPower Technology and used as replacements for repair are covered by a two year guarantee.

Replacement and repair parts manufactured by alternative manufacturers to those on the maintenance parts are only allowed if authorized by LinkPower.

Warranty Exclusions:

- Damage or rendered non-functional as a result of power surges, lighting, earthquake, fire flood, pest damage, abuse, accident, misuse, negligence or failure to maintain the product or other event beyond LinkPower's reasonable control or not arising from normal operating condition.
- Cosmetic or superficial defect, dents, marks or scratches after use.
- Components which are separate from the product, ancillary equipment and consumables, such as door key, RFID card, air filter, fuse, cable, wires and connectors.
- Damage as a result of modifications, alterations or disassembling which were not pre-authorized in writing by LinkPower.
- Damage due to the failure to observe the applicable safety regulations governing the proper use of the product.
- Installed or operated not in strict conformance with the documentation, including without limitation, not ensuring sufficient ventilation for the product as described in LinkPower installation instruction.

If a defect in the product arises and valid claim is received within the warranty period, your sole and exclusive remedy will be for LinkPower, at its sole discretion and to extent permitted by law, to

- 1.Repair the defect in the product at no charge, using new or refurbished parts.
- 2.Exchange the product with new or refurbished product that is functionally equivalent to the

original product.

Any remedy hardware product will be warranted for the remainder of the original warranty period or 90 days from delivery to the customer, whichever is longer.

In order to receive the remedy set for above, you must contact LinkPower during the warranty period and provide the model number, series number, proof of purchase, and date of purchase.

5.3. Appendix - Package list

| Item | Description | Quantity | Remark |
|------|-------------------------|----------|----------------------|
| 1 | EVSE | 1 | |
| 2 | User Manual | 1 | |
| 3 | OQC Report | 1 | |
| 4 | RFID Card | 2 | |
| 5 | Key of Cabinet | 2 | |
| 6 | 5/16" Expansion Screw | 4 | Each Gun Holder*2pcs |
| 7 | 3/8" Expansion Screw | | |
| 8 | M12 Screw | 6 | |
| 9 | 2.5mm Ball-Head Hex Key | 1 | |

