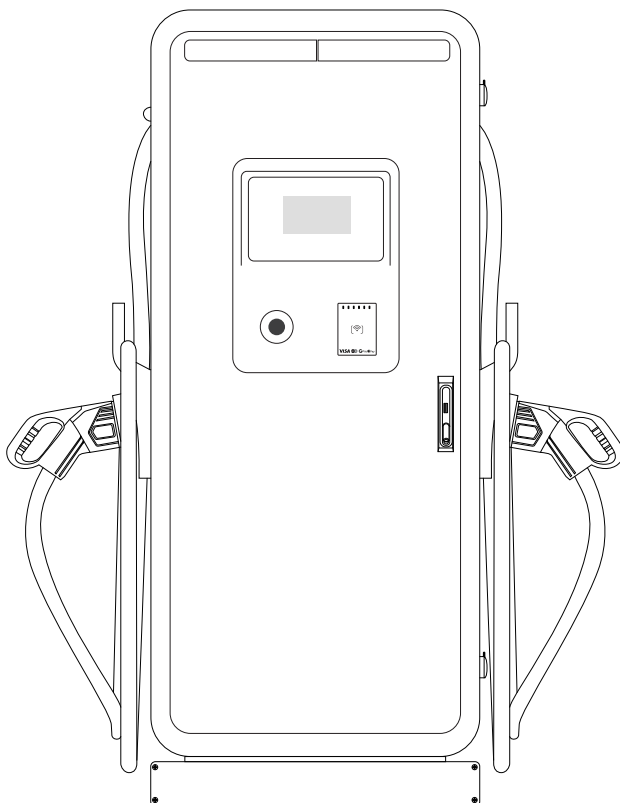


DC Series

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.

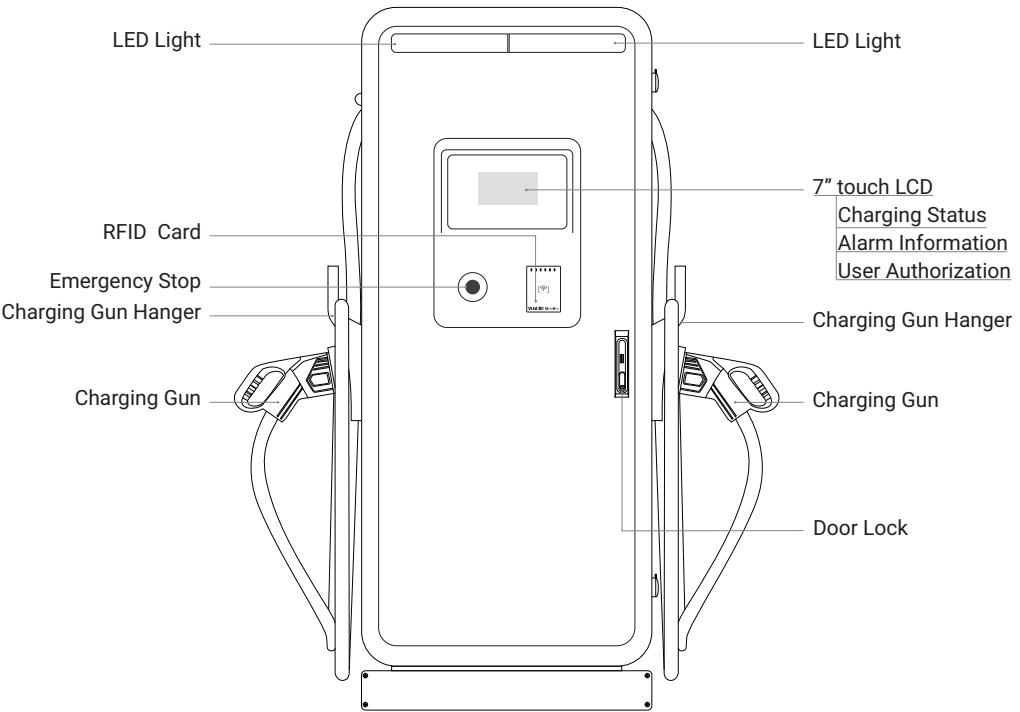
2. Specification

2.1. Product Specification

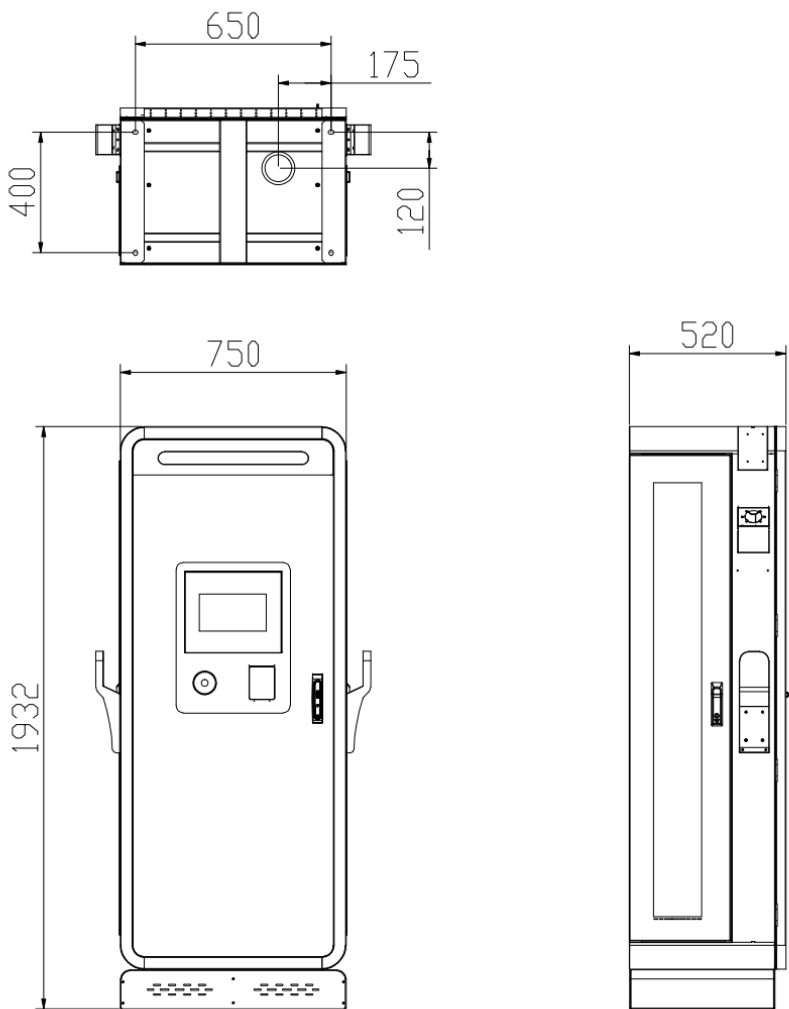
Model Name		L3S-DC60kW	L3S-DC80kW	L3S-DC120kW
Power Input	Phases /Lines	3 Phase+PE+N		
	Voltage	480Vac(±10%)		
	Frequency	60Hz		
Power Output	Charging Outlet	CCS1/NACS*2/CCS1+NACS		
	Voltage(DC)	CCS: 200~1000VDC		
	Current(Max)	200A		
	Power(Max)	60kW	80kW	120kW
	Measuring accuracy	Level 0.5		
User Interface & 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)		
	Net Weight	90.39lbs(41kgs)		
	Gross Weight	1401.41lbs(46kgs)		
	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	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)	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		
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	Application place	Indoor/Outdoor		
	Installation method	Wall mount, pedestal mount (optional)		
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	Sound noise	<55DB in all directions		
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Mechanical	Cabinet Dimension (W×D×H)	76.06"×29.53"×20.47" (1932mm×750mm×520mm)		
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Certifi cation	Versatility	Conform to UL2202,UL2231-1/-2		
Warranty		2 years		

2.2. Basic User Interface



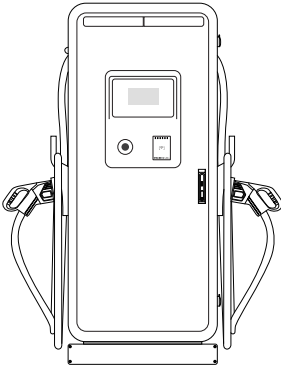
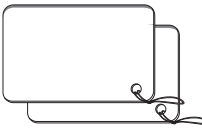
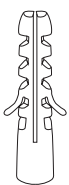
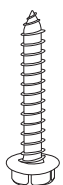
2.3. Dimmensions



400V 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	

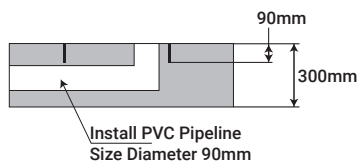
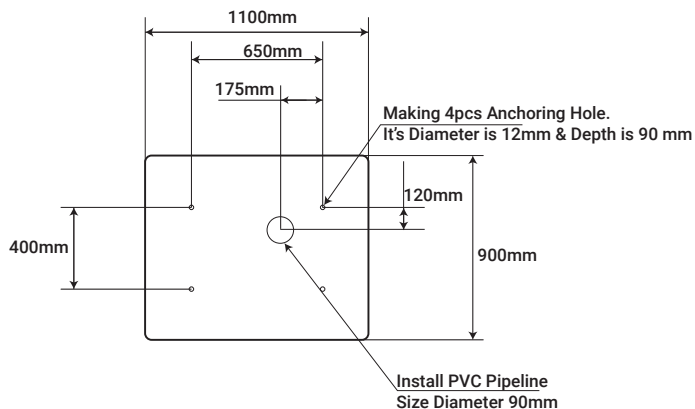
3.2.2. Recommended Tools for Inspection & Commissioning

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 Procedure Taking 120KW as an example

STEP 1

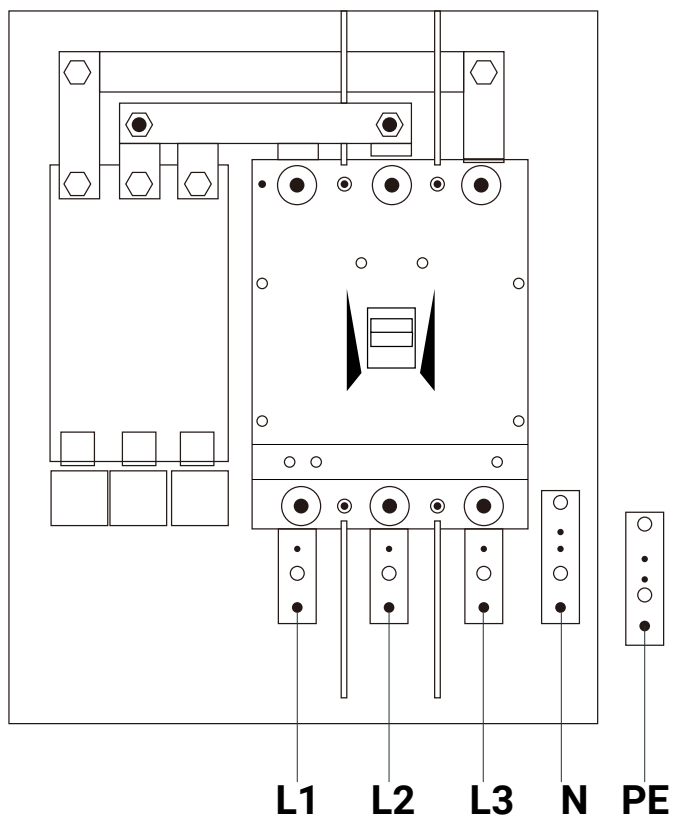
Place the mounted bracket between 600mm (24 inches) and 1.2m (4 feet) above the floor, and then attach 4 pcs 3/8" expansion screws to the mounted bracket. (Unit: mm)



STEP 2

INSTALLING THE AC INPUT CONNECT.

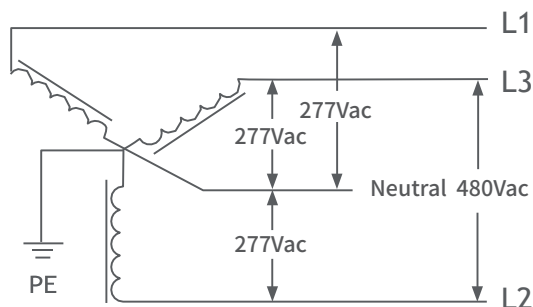
Please use XLPE power cables or equivalent for AC input connection, power cable outer diameter is between 32 and 40mm. Each wire shall be crimped with the corresponding terminal before feeding. And then feeding the cable from bottom side and passing through the cable gland. L1, L2, L3, N, and PE are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

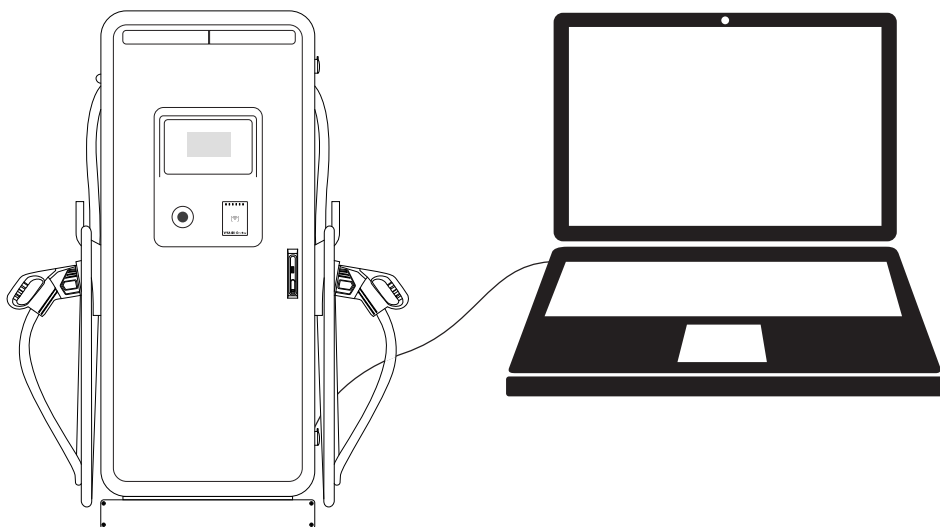
3.4.5. EVSE Check - Charging

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

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.

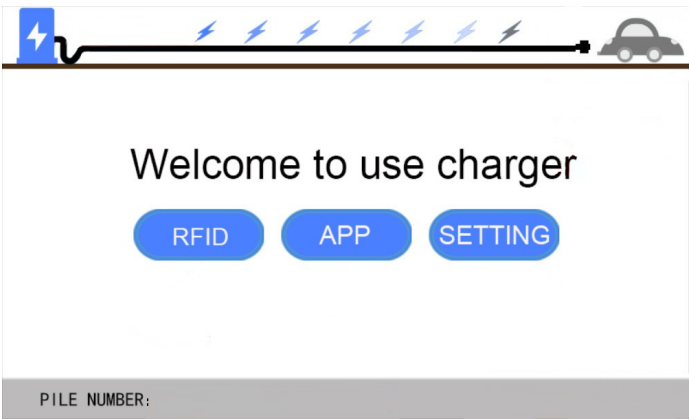


Fig. 1-2 Display of icons and instructions

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.

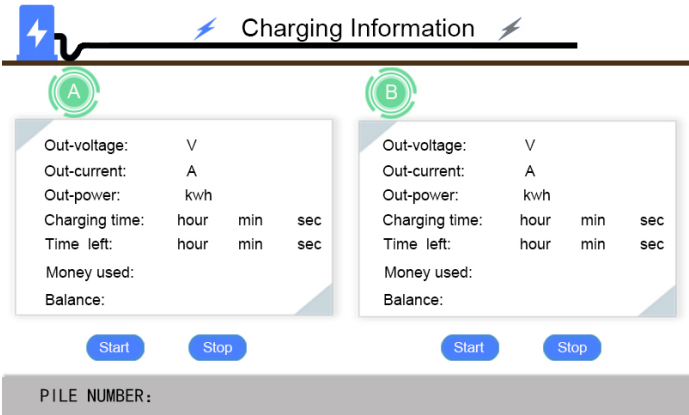


Fig. 6-3 Display of Preparing

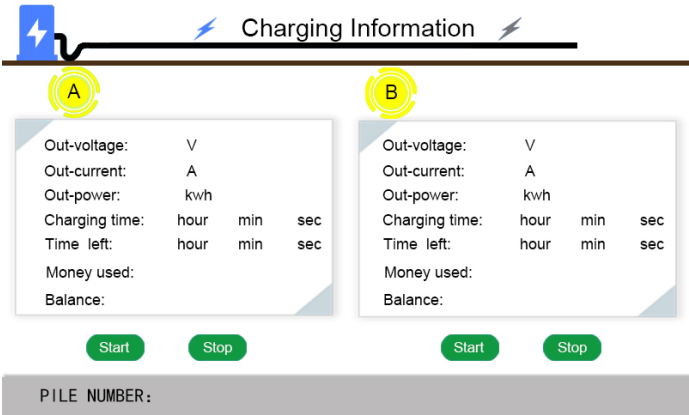


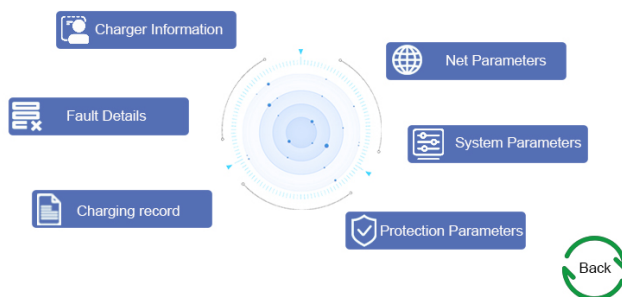
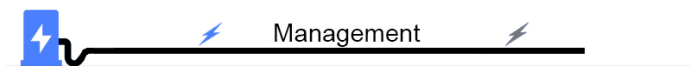
Fig. 6-4 Display of Charging

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

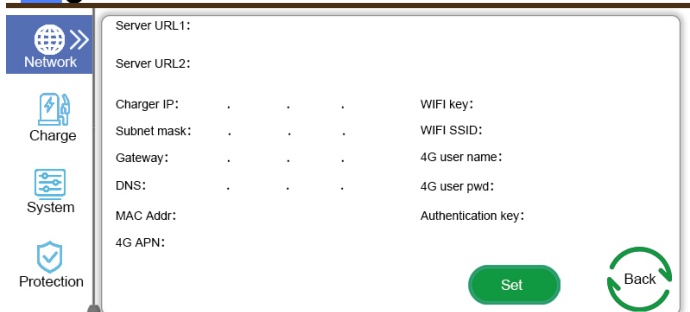
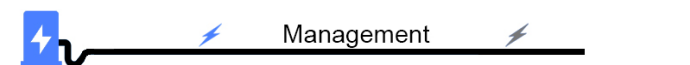
Enter password: 1234



Fig. 6-4 Display of Charging



PILE NUMBER:



PILE NUMBER:

Fig. 6-6 Display of Network Setting

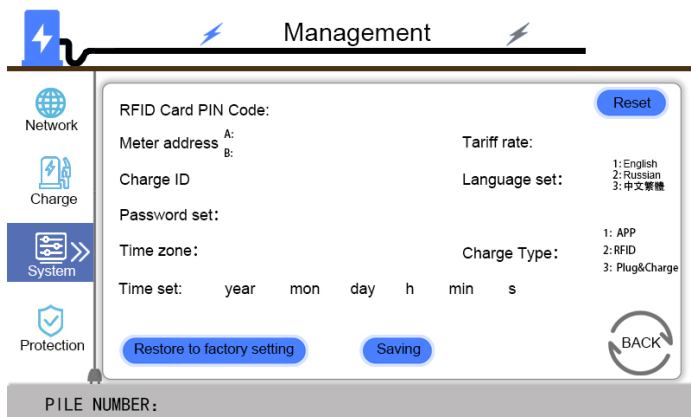


Fig. 6-7 Display of System Setting

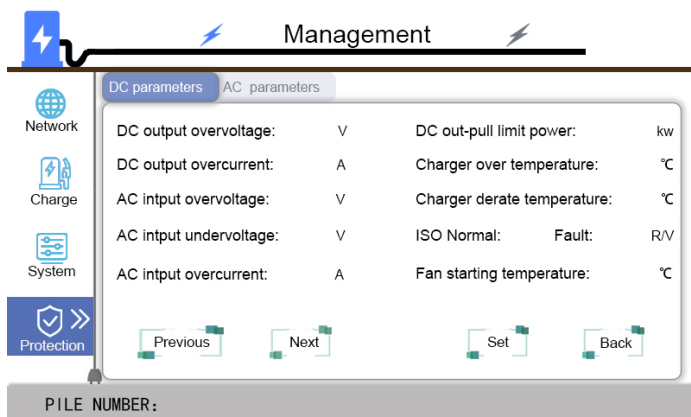
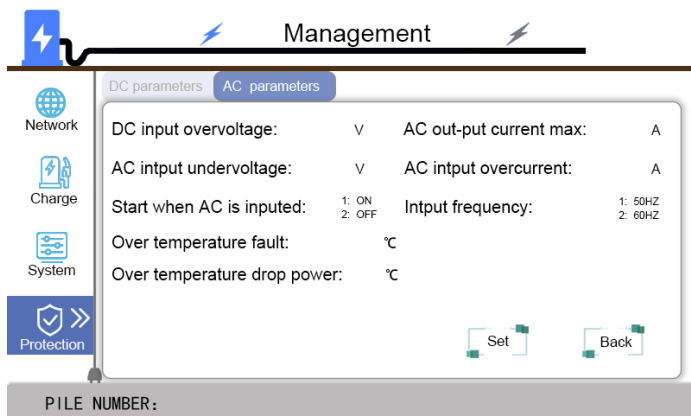


Fig. 6-8 Display of Protection Parameters Setting

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

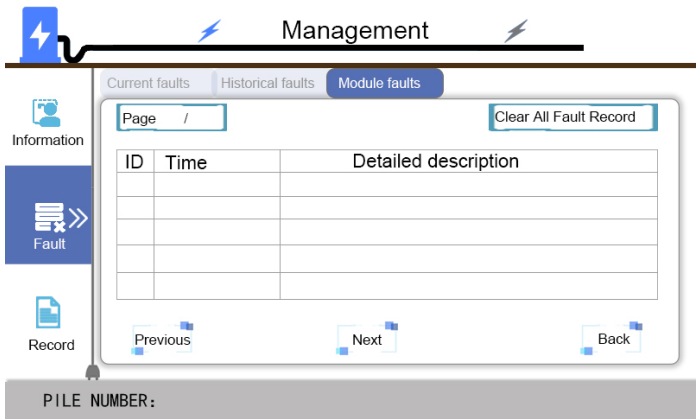


Fig. 6-10Display of fault state

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

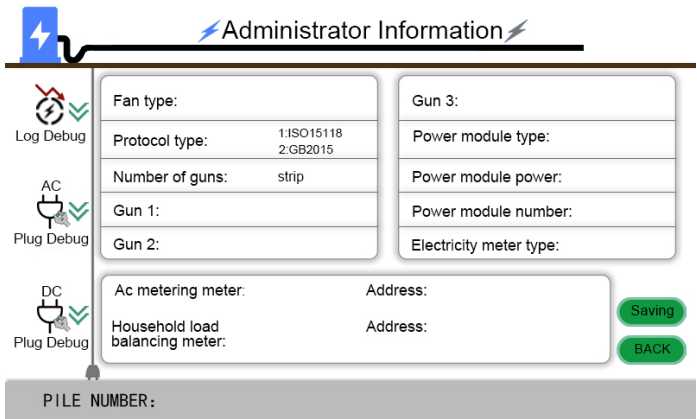


Fig. 6-11 Display of factory Settings

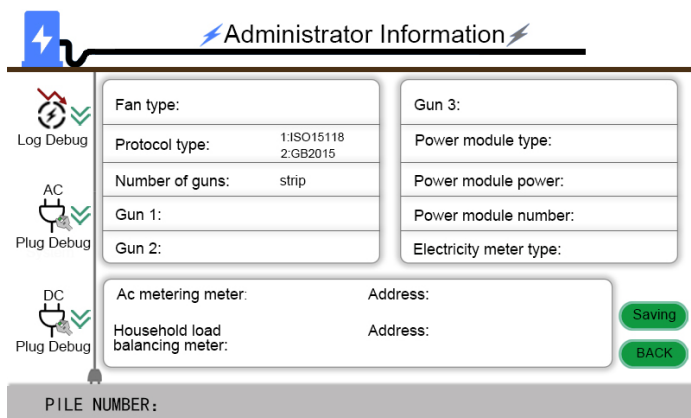


Fig. 6-11 Display of factory Settings

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

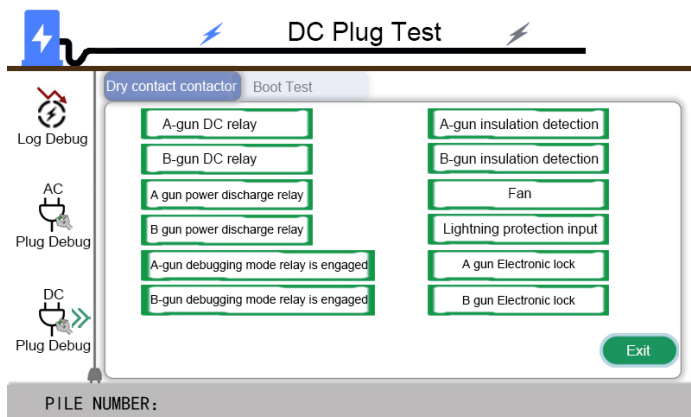


Fig. 6-12 Facoty debugging page

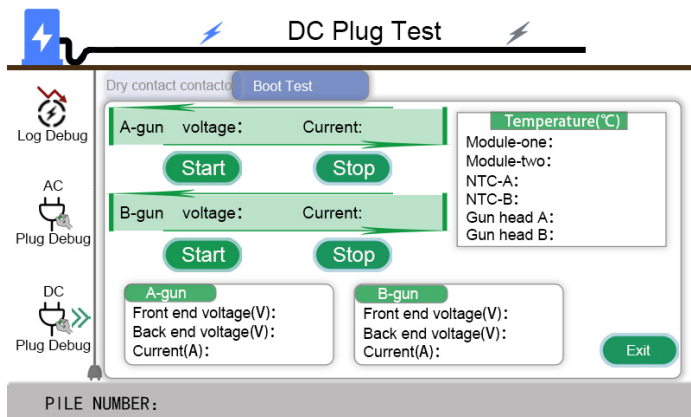


Fig. 6-12 Facoty debugging page

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	

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

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.