

DW series

30kW Wall Mount DC Fast Charger



- Multi-standard: CCS and CHAdeMO
- Network or standalone operation
- User authentication
- Supports smart charging and load balancing
- Efficiency > 94%
- PF > 0.99(APFC)
- 7-inch LCD screen with user friendly interface
- OCPP 1.6 JSON
- IK10/NEMA 3R(Not including screen and RFID module)
- Customization available

Applications

- Parking garages, retail and hospitality
- Commercial fleet operators
- EV infrastructure operators and service providers
- EV dealer workshops



Model Name	UL, DW 30 Series
Safety (Not including GB)	NRTL – cETLus (USA/Canada)
Picture	

Power Specification

AC Input	Input Rating	3 Φ _480Vac (+10%, -15%)
	AC Input Connection	3P+N+PE (Wye configuration), TN/TT
	Max. Input Current	3 Φ 40A
	Frequency	50Hz/60Hz
	Power Factor	>0.99
	Efficiency	>94%,at optimize V/I point
DC Output	Output Voltage Range	CHAdEMO:150~500Vdc • CCS:150~950Vdc
	Max. Output Current	CHAdEMO/CCS:60A@500Vdc
	Max. Output Power	DC 30kW
	Voltage Accuracy	\pm 2%
	Current Accuracy	\pm 2%

User Interface & Control

Display	7" LCD
Push Buttons	Operation buttons / Emergency stop button
User Authentication	RFID: support ISO 14443A/B, ISO 15693, FeliCa Lite-S (RCS966) OCPP, 2D barcode, APP, Mobile payment

Communication

External	Ethernet,Wi-Fi,and 4G
Internal	CAN bus/RS485

Environmental

Operating Temperature	-30° C~50° C, will derating from 50° C and above
Humidity	5%~95% RH, non-condensing
Altitude	\leq 2000m
IP/IK Level	NEMA 3R IK10 (not including screen and RFID module)
Cooling Method	Fan cooling

Mechanical

Cabinet Dimension(W x D x H)	610 x 230 x 690mm \pm 1%
Weight	Single plug: \leq 80kg \pm 1%/Dual plugs: \leq 88kg \pm 1%
Cable Length	4m

Protection

Input Protection	OVP, OPP, OTP, UVP, SPD
Output Protection	SCP, OCP, OVP, LVP, OTP, IMD

Regulation

Certificate	UL 2202, UL2231
Charging Interface	CHAdEMO V1.2, DIN 70121, ISO15118

3.4 Recommended Tools for Installation and Inspection

3.4.1 Recommended Tools for Installation

Type	Description
Philips 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	AWG#4 (21.15mm ²) Cable x 5 (L1,L2,L3,N,PE)
Ring Terminal	1. AWG#4 x 5 (L1,L2,L3,N,PE) 2. Ring Terminal inner diameter is 6.4mm; outer diameter is 16.5mm for L1, L2, L3 and N 3. Ring Terminal inside diameter is 5.3mm; outer diameter is 12mm for PE
Crimping Pliers for Ring Terminal	
Machine Drill	
Level Ruler	

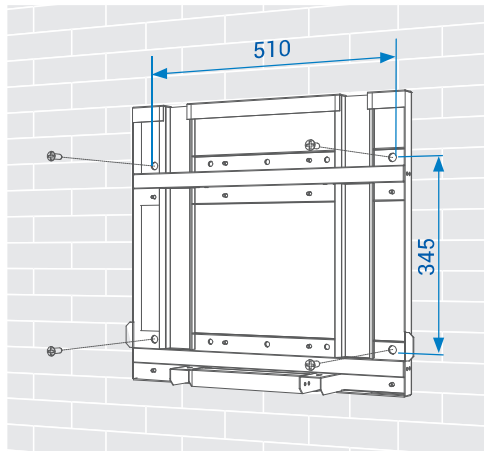
3.4.2 Recommended Tools for Inspection & Commissioning

Type	Description
EV or EV Simulator	Meet CHAdeMO/CCS1 standard
Multiple Meter	1000V
Current Probe	100Amp
RFID Authorized Card	
RFID No Valid Card	
Door Key	
Laptop or PC & CAT6 cable	For Charger Configuration
Wi-Fi /4G signal quality checker	Recommended

3.5 Installation Procedure

STEP 1.

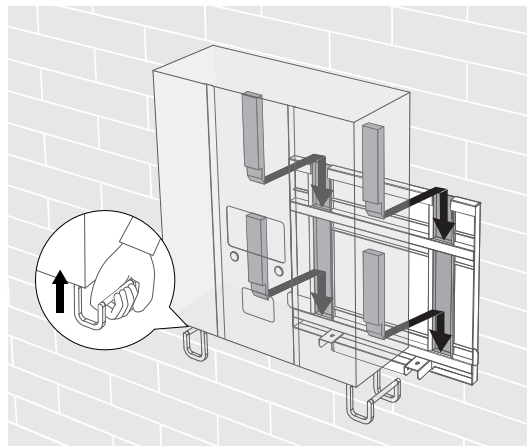
Place the wall-mounted bracket between 600mm (24 inches) and 1.2m (4 feet) above the floor, and then attach 4 pcs 3/8" expansion screws to the wall-mounted bracket. (Unit: mm)



Unit: mm

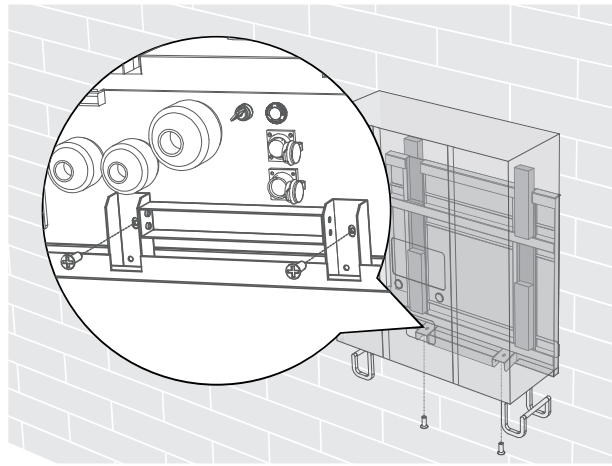
STEP 2.

Install the four tenons on the rear side of the charger into the grooves on the wall-mounted bracket.



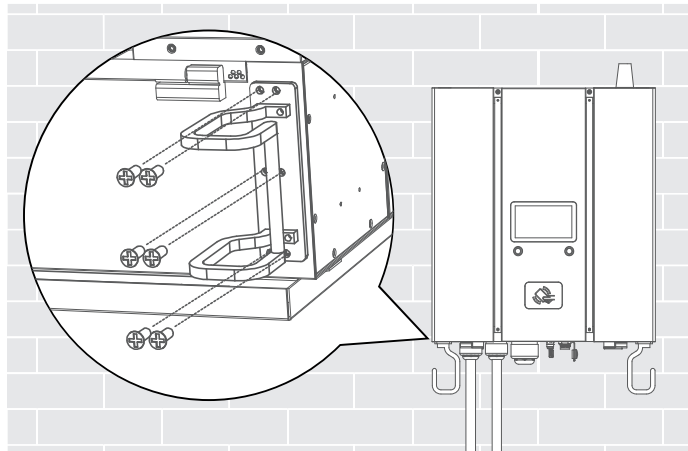
STEP 3.

Screw 2 sets M6 screws to the bottom of the charger to fix the charger on the bracket.



STEP 4.

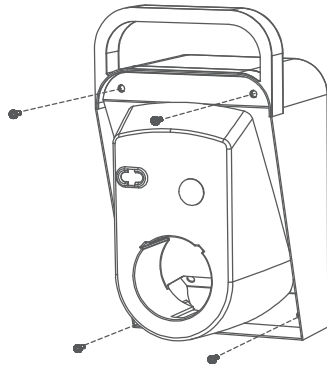
Keep the hook-shape holders as cable holder or disassemble them if not necessary.



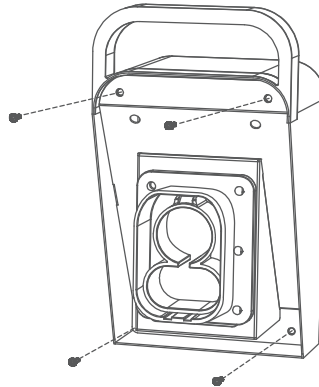
Installing the Gun Holder

STEP 1.

Four screws of the Gun Holder must be disassembled at the circles below outlined.



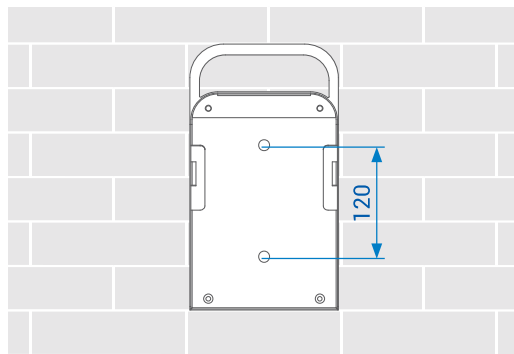
Gun Holder screw location



Gun Holder screw location

STEP 2.

Remove the Gun Holder cover and place Gun Holder base at the appropriate height between 600mm (24 inches) and 1.2m (4 feet), and then attach 2 pcs 5/16" expansion screws to the Gun Holder base, then assembly the cover back.

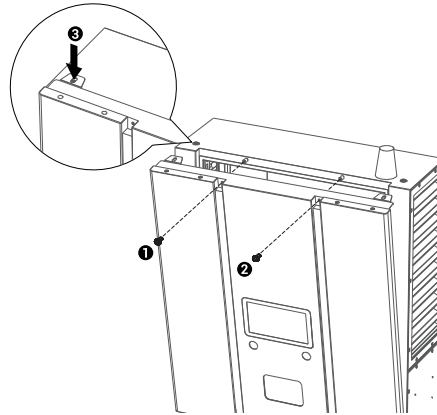


The hole position of the Gun Holder
Unit: mm

Installing Cables

STEP 1.

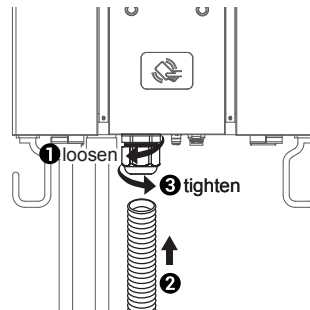
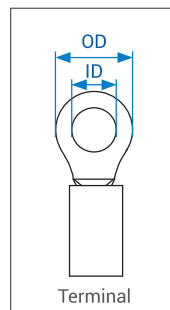
Remove 2 of M5 screws and push the button (marked as no.3) to open front cover :



STEP 2.

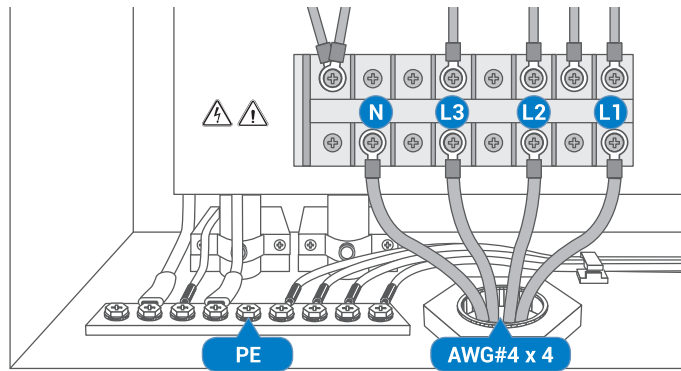
Please use XLPE power cables or equivalent for AC input connection, power cable outer diameter is between 32 and 40mm. If XLPE cable is not available, please use conduit hub and conduit size M50 to prevent electrical hazards and do best water proof. the requirements of conduit shall be according to EN61386-24 or followed local laws and regulations.

Each wire shall be crimped with the corresponding terminal before feeding. L1, L2, L3 and N shall chose terminals with inner diameter 6.4mm and outer diameter 16.5mm, PE shall chose terminals with inner diameter 5.3mm and outer diameter 12mm. And then feeding the cable from bottom side and passing through the cable gland.



STEP 3.

Fasten L1, L2, L3 and N wires onto the 4P terminal with M6 screws, torque force: 30Kgf.cm/5-15 secs. Fasten PE wire to the busbar with M5 screw, torque force: 27Kgf.cm/5-15 secs. Keep proper length of each wires then fasten cable grand.



STEP 4.

Fasten L1, L2, L3 and N to an external beaker. Recommended breaker spec.: rated current shall be 50A, B Curve type; with max. Residual leakage current (RCD) shall be 30mA, type A.

STEP 5.

Turn on the power source and operation screen will be ready within 30 seconds.



Not following installation instruction will cause charger damage.



A 50A NFB with 30mA RCD-Type A is recommended.