

# **Basic Training for Titan**

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- Brief Introduction of Titan
- Installation
- Commissioning
- Q&A





# **Brief Introduction**

"mini

**Overview** 





#### High efficiency >95%

Dual connector (each could be up to 180kW max. output)

Automatic load balance

Simultaneous charging

CCS2\*2 (200A 1000V)

Wide output voltage 200-1000Vdc

Modular design, easy upgrade.

Overview





#### Specifications



		Titan 180 Premium
	Input Rating	400Vac±10%, 3-Phase, 50/60 Hz, L1+L2+L3+N+PE
	Power Factor	0.99 at nominal output power
Power Input	Current THD	≤5% at nominal output power
	Efficiency Rectifier	≥95% at nominal output power
	Output Interface	Configuration1: 2 x CCS2 Configuration2: CCS2 + CHAdeMO
Power Output	Output Power	CCS2: 180kW max., CHAdeMO: 62.5kW max.
	Output Voltage	CCS2: 200-1000Vdc, CHAdeMO: 200-500Vdc
	Output Current	CCS2: 200A max., CHAdeMO: 125A max.
	Display	10.4'' LCD Touch Panel
User Interface & Control	Support Language	Simplified chinese, English, Other languages available upon request
	Push Buttons	Emergency stop button
	RFID Reader	ISO/IEC 14443 A/B Mifare RFID reader
Communication	Network Interface	4G, Wi-Fi, Ethernet
Communication	Protocol	OCPP1.6J
	Operating Temperature	-30°C - 50°C
Environmontal	Storage Temperature	-40°C - 70°C
Liviolinenta	Humidity	5%-95% no condensation
	Altitude	≤2000m
	Ingress Protection	IP55
	Enclosure Protection	IK10
	Cooling	Forced air
Mechanical	Charging Cable Length	5m
	Dimension (WxHxD)	800*2050*750mm (depth without connector holder)
	Weight	approx. 395kg (excluding power modules)
	Installation	Ground-mounted
Regulation	Certificate	CE, TR25



## Installation

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# Star Charge®

#### **1.Site conditions**

- Altitude ≤ 2000m
- Historical maximum ponding water depth ≤ 200mm
- Keep distance from the gas station and other highly flammable and explosive facilities

#### 2.Requirements for grid capacity

- If the charging pile operates at full power, the grid capacity shall meet 200KVA, the rated current parameter shall be 280A.
- Recommended parameters of superior circuit breaker UE = 400VAC, In = 400A, thermal magnetic type, Icu = Ics = 40KA, 4Poles





#### **Installation Requirements**

#### **3.Maintenance distance**







#### **Installation Requirements**

#### **4.Dimension of concrete base**

The size of the cement base is 900mm\*850mm\*600mm mm, the depth of burial of the base is 400 mm and the height of the ground is 200 mm.







#### 5. Power cable specification

For full output power (180kW), the charger's power cable to be laid is not less than 3 \* 150mm<sup>2</sup> + 2 \* 70mm<sup>2</sup>, the core material is copper, and the length above the base is about 1m.







#### 1. Unpacking inspection

Name	Photo description (before unpacking)	Configuration	Attached file	Accessories list
180kW DC charger		1	Certificate of approval Delivery inspection report The user manual	Key*6 Start&Stop card*2
Module		6		Screws*4

Check the following items:

- packing list number and equipment quantity.
- equipment nameplate information.
- whether the documents are complete.
- whether spare parts and accessories are complete
- Factory inspection report and certificate.
- whether the appearance of equipment is in good condition





- 2. Fill out unpacking record form
- The installer open crate in the presence of customers and fill in the unpacking record sheet.

king record list

Quantity

2

sction Manual

6

Key

wer Module (SCIS040-E)

Client Company

G

- After unpacking inspection, invite owner's representative to confirm and sign on the unpacking record sheet.
- In case of any problem found during the unpacking inspection, besides making record, notify the supplier.

#### **3.Drill holes in concrete base**

- Positioning and punching with mould. The depth of drilling shall be not less than 100 mm.
- Tap the M10\*120 expansion bolt into the positioning hole.









#### 4.Lifting preparation

First remove the front and rear sealing plates of the base by screwdriver.



#### 4.Lifting & Fixing

- Lift the charger by using a crane (more than 3 tons) and two 6m slings (each 1.5T) through the sealing hole
- Align the fixing hole at the bottom of the charge with the fixing bolt on the foundation, lower it slowly.
- Fix the nut with a wrench .
- Install the base sealing plate after the charger is fixed.











#### 5.Input cable handling

a) Remove the outermost cable insulation layer and pass each phase line through the cable gland







#### 5.Input cable handling

b) Use heat shrinkable tubing that meets the withstand voltage level to strengthen the insulation of the cable.







#### 5.Input cable handling

c) Crimping copper nose.(more than 5 times).









#### 5.Input cable handling

d) heat the shrinkable tubing and deal with the exposed part of the copper nose.





#### 6. Grounding/Insulation testing

- Check the civil grounding resistance, must be  $\leq 4\Omega$ .
- Check the civil insulation resistance, must be  $\geq 10M\Omega$ .





#### 7. Electrical wiring

- Connect the power cable to the terminal.
- Make sure the screws of the wiring are fastened. When installing and connecting, avoid the damage of the cable insulation.
- Add label to cables









#### 8. Insert power modules

Insert 6 power modules and fix each module with 4 screws





Demo video

# Preparación de herramientas de instalación



#### **1. Check before power-on**

(1) Short circuit: check the power supply line in the low voltage distribution cabinet, there should no short circuit between the three-phase wire, neutral wire and ground wire.

(2) Power supply voltage : Check whether the power supply voltage on upper end of MCCB in the low-voltage distribution cabinet is normal, ensure there are no lack-phase, over voltage, under voltage, phase sequence abnormality and other abnormalities.



#### 2. Check after power-on

#### (1) The line voltage at the outlet terminal of the distribution box is about 400V ( $\pm$ 5%), phase voltage is 230V( $\pm$ 5%)

(2) The line voltage of charger inlet terminal is measured to be about 400V ( $\pm$ 5%), phase voltage is 230V( $\pm$ 5%)





		ι	Jnpacking reco	ord				
Name of distribution store							Date of unpacking	
	N	0.	Name of c	ommodity	Qua	ntity	Inspection status	Note
Box1	-	1	D	C		1		
	2	2	Certificate	of approval	:	L		
	3	3	IC c	ard		2		
	2	1	Delivery i rep	nspection port	-	1		
	C.	5	The use	r manual		1		
	6	5	K	еу		5		
Box 2								
	-	1	Мо	dule		5		
		2	Scr	ew	2	4		
		3						
Unpacking result								
Signature block	Installation unit			owner	's unit			



# **Commissioning**

111

Turnin

#### **Commissioning Tools**



ltem	Tools	Usage	Example
1	Laptop	Configure the settings, And read the log	
2	Ethernet cable	Parameter Configuration	
3	J – LINK tool	Programming	
4	5/6 pin adaptor	Programming	
5	TF Card and reader	Programming	Permanani Intersection
6	Screwdriver set	Assemble and disassemble the screws	

#### **Commissioning Tools**



ltem	Tools	Usage	Example
7	Wrench set	Standby	
8	Electrical multimeter	Electric measurement	
9	Megohmmeter	Test the insulation	
10	Safety Sign	Warn potential danger on site	4
11	Electrician protective gloves		
12	Electrician protective Shoes	Safety protection	

#### **Commissioning Flowchart**





#### Installation Recheck Basic Check



- 1. Pedestal: whether fixed and sealed well.
- 2. Inlet cable: whether the specification of all the cable used meet the requirement of EVSE, whether there is any break, damage, or scratch, whether the electrical connection is correct and complete, whether the connection is stable and solid, whether the grounding is reliable.
- 3. Grounding/Insulation resistance: The external grounding resistance must be  $\leq 4\Omega$ , the internal grounding resistance must be  $\leq 0.1\Omega$ . The inlet cable insulation resistance must be  $\geq 10M\Omega$ . The outlet cable insulation resistance must be  $\geq 1M\Omega$ .
- 4. Outside appearance of cabinet: The surface of cabinet is intact without any dirt, and the charging cable is not broken or damaged. All doors of cabinet can be opened, closed and locked. The cabinet is not tilting, shaking or reverse assembling.
- 5. Nameplate and sign: Check whether nameplate and other signs are printed correct and complete, whether the safety sign is posted in correct place.
- 6. Documents with EVSE: Check with the customer whether the configuration information of the EVSE on site complies with the contract requirements and whether the accessories are complete.

#### Check before Power on Internal Wiring



- 1. Short circuit: Check the inlet cable to the EVSE. Check whether there's any short circuit between 3phase live wire, neutral wire and grounding wire and whether the phase sequence is correct.
- 2. Fasten screw: Check whether the fastening torque of each line connection, connector, terminal with screw and brass plate can meet the requirement, and whether there's any looseness, poor connection and etc.
- 3. Input Voltage : check whether the input voltage of the main breaker inside of the EVSE is correct, and make sure there's no fault such as phase loss, overvoltage, undervoltage and wrong phase sequence.

#### Check after Power on Basic Check

- 1. Voltage check after power on: Check whether the output voltage of the mainbreaker inside of the EVSE is correct, and make sure there's no fault such phase loss, overvoltage, undervoltage and wrong phase sequence.
- 2. Touch screen: Check whether the touch screen displays normal, has obvious dead pixel, displays words clearly, is operated well and clear UI.
- 3. LED indicator light: Check whether the LED indicator light on the EVSE works as the design requirement.
- 4. Switching power supply: Switch power supply can provide stable voltage power. Use electrical multimeter to check whether the output voltage of switching power supply inside of the EVSE meets the requirement.



## Parameter Configuration Establish 4G Connection



To connect to the network, insert the SIM (mini SIM) according to the location of 4G communication module.

Before inserting the SIM, the charger needs to be switched off.





## Parameter Configuration Establish the Ethernet Connection



Connect the main board to the laptop by an Ethernet cable, and set the IP address as shown in

the following picture (192.168.88.xxx, xxx can be any number but 206)

	Troubleshoot prob	lems	Network troublesh Diagnose and fix netw View your network prope Windows Firewall	ooter kork problems. enties	Access type Internet Connections: U Local Area Connect	tion	
~		11/30/2018	Network reset	inter	ection; or set up a router or access point.		
IPv4 Connectivi IPv6 Connectivi	ity: ity:	Interne No network acces	et ss Connect u	using:			
Media State:		Enable	ed 🗇 Inte	el(R) Ethernet	Connection 1217-LM		
The second second case in							
Duration:		02:01:1	19				
Duration: Speed:		02:01: 10.0 Mbp	19 ps		Г	Configure	
Duration: Speed: Dgtails		02:01: 10.0 Mbg	19 ps This conn	ection uses th	ne following items:	Configure.	
Duration: Speed: Dgtails	Sent —	02:01: 10.0 Mbp	19 This conn V V d V I	nection uses th QoS Packet S Internet Protoc Microsoft Netw Microsoft LLDI	ne following items: icheduler col Version 4 (TCP/IPv4) vork Adapter Multiplexor Pro P Protocol Driver	Configure.	^
Duration: Speed: Dgtais tivity Bytes:	Sent — 22,408,392	02:01:: 10.0 Mby — Receive   127,301,05	19 This conn V V I I I I I I I I I I I I I	nection uses the QoS Packet S Internet Protoc Microsoft LLDI Internet Protoc Link-Layer Top	the following items: Cheduler col Version 4 (TCP/IPv4) work Adapter Multiplexor Pro P Protocol Driver col Version 6 (TCP/IPv6) poology Discovery Manager (J	Configure otocol er O Driver	





## Parameter Configuration Log into configuration website of charger

Open the browser and enter IP address 192.168.88.206,

log in with

username <mark>xxcd</mark> and password <mark>28912891</mark>

Or username wbdh and password 26835941





## Parameter Configuration Change the Language



Change the language according the picture below.

🔆 Star Charge		Language 🕶	User Set 👻
Home	Home	English 简体中文	
Software Setting	Home		_
Charging Status			
Power Module Status	www.starcharge.com		
Sensor Status			
Intelligence operations			
Upload and download			

## Parameter Configuration Software Setting: Network Priority:

- 1. Find "Network priority selection"
- 2. Set the priority, Ethernet>4G>WIFI for default



					inguage <del>-</del>
Software Setting	a				
Solution Security	9				
Home / Setting / Software Setting					
New version of r	etwork Settings	5			
Notwork priority co	laction			_	
Priority No.1	Priority No.2	P	riority No.3		
EthO	✓ 4G	~	Wlan		
4G configuration					
Enable modification					
APN	User	Psw	Pin		
EncountTune					
chtrypt type					
A ¥					
	Software Setting Home / Setting / Software Setting New version of r Network priority se Priority No.1 Eth0 4G configuration APN EncryptType	Software Setting Home / Setting / Software Setting New version of network Settings Network priority selection Priority No.1 Priority No.2 Eth0 4G 4G 4G 4G 4G 6 6 6 6 6 6 6 6 6 6 6 6	Software Setting Home / Setting / Software Setting New version of network Settings Network priority selection Priority No.1 Priority No.2 Priority No.2 Configuration APN User Psw EncryptType	Software Setting         Home / Setting / Software Setting         New version of network Settings         Network priority selection         Priority No.1         Priority No.2         Priority No.3         Eth0         4G         Wlan         4G configuration         Enable modification         APN         User       Psw         FincryptType	Software Setting     Home / Setting / Software Settings     Network priority selection     Priority No.1     Priority No.2     Priority No.3     4G     Yess     Pin     Etho     User   Prior     Pin     Etho     User     Pisw     Pin     EncryptType



- 2. Click "Enable modification"
- 3. Set APN, User, Psw, Pin according to actual usage
- 4. Click "Save"
- 5. Click "Test"
- 6. Click "Reload configuration"

Network     nonstraining     nonstraining <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Network     Network Priority     Network Priority     Note							
Network Priority:     Normation:     Normation:     AG     Brace Configuration     Normation:     Normation:<	Network	< Contract of the second se					
<pre>merry No.2 Percey No.2  Pe</pre>	Network	Priority					
Image: mail     Image: mail <td>Priority N</td> <td>0.1</td> <td>Priority No.2</td> <td></td> <td>Priority No.3</td> <td></td> <td></td>	Priority N	0.1	Priority No.2		Priority No.3		
4G   Index Configuration   Image basis   DNS configuration Page   Image basis   Image b	Eth0		✓ 45		✓ Wan	~	
4G   Bindee Configuration   An   User   ForgetType   A							
	4G						
Any Uter Pre Pre Pre Pre Pre Pre Pre Pre Pre P	🖾 Enable Co	infiguration					
Externet   Drose faster   DNS configuration   Owsi   DNS     NGFi   Medi Selection   SSD   Per   Objecty Advanced Configuration Page   Test   Save   Referab	APN		User	Psw	Pin		
Image: Same Refresh	EncryptType	•					
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Ethernet  DNS configuration  DNS configuration  DNS2  DNS2  WiFi  WiFi  Sta States  Sta States  DNS2  DNS2 DNS2							
	Ethernet						
DNS configuration   DNS   DNS   DNS   DNS     DNS     ViFi     Mode Selection   STA   Total Dependence     Display Advanced Configuration Page     Test     Breat Eactory Configuration	El Dhope En	able					
DNS configuration     Diss frable     NiFi     Mode Selection   STA   STA   Prov   Channel   Intropytion     Prov     Display Advanced Configuration Page     Test     Refresh     Refresh							
Ones finalize   ONEST   ONEST   ONEST   ONEST   ONEST   Sta   Sta   Sta   One   Dependent	DNS con	figuration					
WiFi     Mode Selection   StA   StD   Paw   Display Advanced Configuration Page     Test     Refresh	C) Day Erab						
WiFi Mode Selection STA STA Depre enable Advanced Configuration Page Test Save Refresh							
WiFi Mode Selection STA STD Deprecentitie Deprecentitie Advanced Configuration Page Test Save Refresh Reforesh	DNS1		DNS2				
WiFi ModeStatestion SIA SID Dispecemble Advanced Configuration Page Test Save Refresh Refersh	DNS1		DNS2				
STA Sub Paw Channel Encryption open Commercial Configuration Page	DNS1		DNS2				
SBD     Prw     Channel     Encryption       ©     0     open        Ø     Open        Advanced Configuration Page         Test     Save     Refresh	DNS1 WiFi Mode Select	5en	DNS2				
Configuration Page	WiFi Mode Select	tion 🗸	DNS2				
Configuration Page	WiFi Mode Select STA SSID	tion V	Pw	Channel	Encryption		
Advanced Configuration Page  Test Save Refresh  Reform	WiFi Mode Select STA SSID	tion 🗸	Prw	Channel 0	Encryption Copen	~	
Copen	DNS1		DNS2				
C Display Advanced Configuration Page  Test Save Refresh	WiFi Mode Select STA SSID	tion 🗸	Pw	Channel	Encryption		
Advanced Configuration Page  Display Advanced Configuration Page  Test Save Refresh  Reform  R	WiFi Mode Select STA SSID	tion V	Prw	Channel 0	Encryption Copen	~	
Test Save Refresh Reload Reset Factory Configuration	WiFi Mode Select STA SSID	tion 🗸	DNS2	Channel 0	Encryption Copen	~	
Test Save Refresh	WiFi Mode Select STA SSID	tion	Prw	Channel 0	Encryption Copen	×	
Test Save Refresh Reload Reset Factory Configuration	WiFi Mode Select STA SSID Z Dhopc en Advanced	tion 🗸	Pw	Crannel 0	Copen	~	
Test Save Refresh Reload Reset Factory Configuration	WiFi Mode Select STA SSID Dhop: en Advanced	able d Configuration Page	Psw	Channel © Display Advanced C	Encryption open onfiguration Page	~	
Reload Reset Factory Configuration	WiFi Mode Select STA SSID Zi Dhopc en Advance	able d Configuration Page	Pew	Channel 0 Display Advanced C	Encryption open onfiguration Page	~	
DUDADA DUDAD SATURADINAL	WiFi Mode Select STA SSID Dhope en Advanced	tion atile d Configuration Page ave Refresh	Pave	Channel © Display Advanced C	Encryption open onfiguration Page	~	



#### Ethernet:

- 1. Connect Ethernet cable
- 2. Find "Ethernet configuration"
- 3. Click "Dhcpc enable"
- 4. Click "Save"
- 5. Click "Test"
- 6. Click "Reload configuration"

Network						
Network Priority						
Priority No.1		Priority No.2		Priority No.3		
Eth0	~	45	~	Wian		~
4G						
Enable Configuration						
APN	User		Ppw		Pin	
EncryptType						
Α						
The second						
Ethernet						
Dhopo Enable						
DNS configuration						
DNS1		DN52				
VALUES						
VVIPI Mode Selection						
STA 🗸						
SSID	Psw		Channel		Encryption	
			0	~	open	~
E Chose enable						
Dhcpc enable						
Dhop enable						
Difficac enable Advanced Configuration Page			Display Advanced Configuration	o Page		
Difficac enable			Display Advanced Configuratio	n Page		
Advanced Configuration Page			Display Advanced Configuratio	n Page		
Dhope enable     Advanced Configuration Page     Test Save Refresh			Display Advanced Configuratio	n Page Ratour	Parat Factory Config	uration



## Parameter Configuration-Software Setting Software Setting: WIFI



- 1. Find "WiFi" 。
- 2. "Mode selection" choose "STA"
- 3. Fill in "SSID" (WIFI ID) "Psw" (WIFI pasword) "Encryption" (EncryMode, generally choose wpa2)
- 4. Click "Dhcpc enable"
- 5. Click "Save"
- 6. Click "Test"
- 7. Click "Reload configuration"
- 8. Finish setting, wait for 1 minute to check whether the WIFI connection works

🜟 Star Charge'						Language 👻	User Set 👻
Hardware Setting	Enable modification						
Software Setting				Submi	t Refresh		
Charging Status							
Power Module Status	Wifi configuration						
Sensor Status	Enable modification						
Intelligence operations	Mode selection						
Upload and download	SSID	Psw	Channel		Encryption		
			0	~	open 🗸		
	Dhcpc enable						
				Submi	t Refresh		
	OCPP Part						
	Catting						
	Setting						
	URL	Path					
	Port	SSL_ON					



#### OCPP:

Take http://36.153.57.202:3400/steve/websocket/CentralSystemService as an example. The information need to be filled in is shown as below:

- 1. Find "OCPP"
- 2. "URL" : Enter IP address or domin name of the backend;
- 3. "Path" : Enter the path after IP in "Path"
- 4. "Port" : Enter Port number of backend
- 5. "SSL\_O" : The value is 1 when the backend uses TLS for access, otherwise the value is 0.
- 6. "Authorization key" : If the backend doesn't use Basic authorization, just leave it blank. (no need to fill in most cases)
- 7. Click the "Submit" in OCPP Part to confirm delivering the setting information to the backend.
- 8. "Certificate Import" : Load in the CA certificate offered by customer when using TLS; otherwise, leave it blank.
- 9. Click "Submit" to deliver certificate if loading in the certificate.



nc					
CP Back	cend				
URL	Path				
36.153.5	7.202 /steve/websocket/	(CentralSystemServi			
Port	SSL_ON				
3400	0				
Authorizat	tion key			Submit	Refresh
				Submit	
d Certifica	ate import			Submit	
Certifica Additio	ate import Brows nal Function on Interaction With Back	kend For All		Submit	
Certifica Additio	ate import Brows nal Function on Interaction With Back	kend For All		Submit	
Addition Authenticati Card Not A QR-Code Pro	ate import Brows nal Function on Interaction With Back Authentication V No Private Data	kend For All	nit Refresh	Submit	



#### Card type:

- 1. "Card Not Authentication" : Local start-stop card, the EVSE can work by swiping the card without connecting to the backend.
- 2. "Card Authentication" : Authentication card, the UID of RFID card must be entered into backend before using, and EVSE must connect to the backend
- 3. "Local PNC" : plug in and charge

Click "Submit" after the configuration.

🔆 Star Charge	-								Language 🕶	User Set 🖛
lome	Additional Functi	ion								
oftware Configuration	Authentication		Interaction \	With Backend For A	ш					
P Configuration	Card Not Authentication	~	No		~					
P Status	Card Authentication Card Not Authentication Local PNC Time Zone And DST Settin		No v			Submit Re	Refresh			
ower Unit Configuration										
ower Unit Status	Time Zone And D	OST Setting								
martOPS			Disable							
pload And Download	Beginning month	Beginning wee	k	Beginning day		Beginning ho	ur			
	×		~	Sunday	~		~			
	Ending month	Ending week		Ending day		Ending hour		Submit	Refresh	
	×		~	Sunday	~		~			
	UTC Time Setting	9								
	2021-08-30 13:23:19							Submit	Refresh	
	Version									
	1.3.0.0.5b102							Refresh		

## **Parameter Configuration-CP Configuration**



Enter ChargerPoint ID (if no, default is 1234), Group Number (if no, default is 1234), EVSE ID: 1-1 #1 Gun Address:1, #2 Gun Address:2 Enter QR code for the two charging cables.

	CP Configuration						
onfiguration							
ration	Home / Configuration / CP Configuration						
Configuration	Identification						
Status	CP Identity	Group Number	EVSE ID				
	1234	1234	1-1				
	#1 Gun Address	#2 Gun Address					
d Download	1	2					
	#1 Gun QRcode	#2 Gun QRcode					
	1234567801	1234567802					
	L				submit	Refresh	
	Compatible Configur	ration					
	Cardreader Block Number	Cardreader Key					
	Screen Enable	ID Cover	QR-Code Enable				
	Disable	Disable	Disable	~			

## **Parameter Configuration-CP Configuration**



The default settings are shown as below (Maximum power is set according to the requirements. If you want to change the value of current, voltage and power, administrator account is required, pls contact the local service engineer):

If the gun type of the Titan is CCS2, you can configure it with the following default parameter.



## **Parameter Configuration-CP Configuration**



The default settings are shown as below (Maximum power is set according to the requirements. If you want to change the value of current, voltage and power, administrator account is required, pls contact the local service engineer):

If the gun type of the Titan is CHAdeMO, you can configure it with the following default parameter.



## **Parameter Configuration-Power Unit Configuration**



The default settings are shown as below (Maximum power is set according to the requirements. If you want to change the value of current, voltage and power, administrator account is required, pls contact the local service engineer):

🗧 Star Charge'						Language 👻 User Set 👻	Star Charge					Language 👻 Use
me	Power Unit Co	onfiau	uration				Home					Submit Refresh
tware Configuration		5					Software Configuration					
Configuration	Home / Configuration / Power U	Init Configura	ation				CP Configuration	Power Modu	le			
Status							CP Status	Under-voltage				
ver Unit Configuration	Common						Power Unit Configuration	Protection(V)	Module SN	Group Number	Module SN	Group Number
ver Unit Status	O 180_relay		180_pdu     Gun Amount	○ 360_pdu Power Unit An	nount	Maximum Power/kW)	Power Unit Status	200 Over-voltage Protection(V)	1	1		
artOPS	Hand In Hand	~	2	1		180	SmartOPS	260	2	2		
oad And Download	PDU Type		PDU Amount	PDU Relay Am	ount		Upload And Download	Module Amount 6	3	3		
	Disable	~	2	6				Module Type	4	4		
	Fan Type Disable	~						StarCharge 30KW 🗸	5	5		
						Submit Refresh			6	6		
												Submit Refresh
	Power Module											
	Under-voltage Protection(V)	Module	SN	Group Number	Module SN	Group Number		Sensor				
	200	1		1			-	¥	¥ ¥L-			



Set the power address as the picture below. Workflow refers to the following slides.





Turn off the door sensor(administrator account is required).

🚼 Star Charge		Language 👻 User Set 👻	💥 Star Charge				
Home	Maximum Current(A) 200		Home	Protection(V) 260	2	2	
Software Configuration	Maximum Power(kW)		Software Configuration	Module Amount	3	3	
CP Configuration	180 Maximum		CP Configuration	Module Type	4	4	
CP Status	Temperatur("C) 90		CP Status	StarCharge SUKW V	5	5	
Power Unit Configuration			Power Unit Configuration		6	6	
Power Unit Status			Power Unit Status				
SmartOPS		Submit Refresh	Upload And Download				Submit
	Sensor			Sensor			
	Temperature Sensor Temperature Threshold("C)			Temperature Sensor	Temperature Thresho	ld("C)	
	Disable V Water Level Sensor Door Sensor			Disable Water Level Sensor	V Door Sensor		
	Disable V Disable V	Submit Refresh		Disable	∽ Disable	~	Submit
	www.etarcharge.com			www.starcharge.com			



Turn on the AC contactor.

🙀 Star Charge						Language 👻	User Set
	Door Sensor		/				
lome	Surging Sensor		7				
oftware Configuration	CB Sensor		1				
P Configuration							
P Status	Debug						
ower Unit Configuration	5						
ower Unit Status	Туре	Parameters X Example : 0-100 X Pdu Id Relay Id		ol			
martOPS	Fan Relay	X	Open	Close			
pload And Download	Fan Speed	Example : 0-100	Submit				
	AC Relay	X	Open	Close			
	PDU Relay	Pdu Id	Open	Close			
		Relay Id					
	Power Check	Gun Id	Start	Stop			
		Request Voltage(V)					
		Request Current(A)					

- 1. Press  $\blacktriangle$  or  $\triangledown$ , change the interface;
- 2. Press  $\blacktriangle$  or  $\checkmark$  for about the 2.5s, the value will be flashing;
- 3. Press  $\blacktriangle$  or  $\triangledown$  to change the value;
- 4. Press ▼ for about 2.5s to save the value.







Turn off the AC contactor.

🙀 Star Charge'						Language 👻	User Set +
	Door sensor		/				
Home	Surging Sensor		/				
Software Configuration	CB Sensor		/				
CP Configuration							
CP Status	Debug						
Power Unit Configuration							
Power Unit Status	Туре	Parameters	Contr	rol			
SmartOPS	Fan Relay	Δ	Open	Close			
Upload And Download	Fan Speed	Example : 0-100	Submit				
	AC Relay	X	Open	Close			
CP Configuration CP Status Power Unit Configuration Power Unit Status SmartOPS Upload And Download	PDU Relay	Pdu Id	Open	Close			
		Relay Id					
	Power Check	Gun Id	Start	Stop			
		Request Voltage(V)					
		Request Current(A)					
	2						
	www.starcharge.com						



Submit Refresh

Submit Refresh

Turn on the door sensor (administrator account is required).

Star Charge			Language 👻 User Set 👻	StarCharge				
	Maximum Current(A)				Protection(V)			
e	200			Home	260	2		2
vare Configuration	Maximum Power(kW)			Software Configuration	Module Amount	3		3
afiguration	180			CP Configuration	6 Module Type	4		4
ingulation	Maximum Temperatur(℃)				StarCharge 30KW V			
tus	90			CP Status		5		5
Unit Configuration				Power Unit Configuration		6		6
Unit Status				Power Unit Status				
OPS			Submit Refresh	SmartOPS				
d And Download				Upload And Download				
	Sensor				Sensor			
	Temperature Sensor Temperature Threshold	(°C)			Temperature Sensor	Temp	perature Threshold(°C)	
	Disable ~				Disable	~		
	Water Level Sensor Door Sensor				Water Level Sensor	Door	Sensor	
	Disable v Enable	~			Disable	Eni	able	
			Submit					

## **Charging Function Check**

#### **Charging Test**

- 1. Swipe the RFID card
- 2. Scan QR Code

#### Hardware Function Test

- 1. Limit switch: Open the door of EVSE when charging, the EVSE should stop charging.
- 2. Emergency stop: Press the emergency stop button on the EVSE when charging, the EVSE should stop charging.
- 3. Fan: Check whether the fan inside of EVSE and fan of power module during charging.
- 4. Meter: Check whether the meter measures accurately during charging.
- 5. Charging cable: There's no burrs, no sharp edges, no ignition or burning, no loosen insulation cap on the easy touch surface of the charging cable. It's neither too tight nor too loose when inserting and pulling out the charging cable.



# **Commissioning Report**

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## **Commissioning Report**



After the commissioning work for the EVSE, the engineer should give a basic training relating to the main characteristics of the EVSE to guide the customer on using and some basic knowledge. The training form can be through either document or practical explanation on-site. The training content should cover safety knowledge, basic charging procedure and etc.

After confirming customer's satisfaction, get the training file signed and recorded properly. Refer to Appendix 1 "Customer training record sheet" for details.

Fill in the "Commissioning Report" after all the items have passed.

# Mobile Power Grid Ecosystem

# Future has come





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