SI-TWBUL-001_EA	**Electrify America Dealership Program** Terra DC Wallbox UL CSAT Procedure		
Charger part numbers	1P 6AGC079381, 6AGC100549 3P 6AGC081364, 6AGC100550	Pages	5
Charger model(s)	Terra DC Wallbox UL	Version	1.4
		Date	25-Jan-2021

Purpose of the Site Acceptance Test
The Charging System Acceptance Test (CSAT) is conducted to determine if there are defects in the system due to transportation or faulty installation. Several parts of the system are connected for the first time. ABB has created this CSAT to enable commissioning of the Terra DC Wallbox by a qualified electrician without second line support by trained personnel. This form must be completed in its entirety, submitted and accepted by the ABB EVCI technical support team prior to the activation of the unit warranty. This document can be used to perform commissioning for a maximum of four (4) chargers.

Required tools and spare parts
Basic tool set
- Screwdrivers, Pliers, Allen keys, Ratchet and Socket set
- Multimeter with extra test leads and clamps, 1kV
- Lock-out Tag-out set (LOTO)
- Voltage tester with true RMS voltage capture
- Spare Ethernet Cable, 5m, 2 pcs
Extended tool set
- Spare Ethernet Cable, 10m to troubleshoot broken CAN cables
- Earth leakage tester to test RCD depending on local requirements
Weather related tools
- Party tent to protect yourself and the cabinet from sun, rain or snow.
Spare parts
- According to recommended commissioning spare parts list
Documents and Drawings
- Terra DC Wallbox UL Installation Manual

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Please enter all fields correctly and completely prior to submittal to ABB Service team.

General Information (Please complete prior to contacting ABB)		
Customer Information:		
Company name:		
Contact person:		
Email address:		
Site Information:		
Site name:		
Address:		
City, State, Zip:		
Transformer capacity (kVA, A)	kVA 1P=24 or 3P=26.6	A 1P=125 A or 3P=40 A
External Fuse type:	NH Fuse or Circuit Breaker	
External Fuse size:	1P=125 A 3P=40 A	
Serial Numbers:		
DC Wallbox Number on site # (Pad ID):	DC Wallbox # ..	DC Wallbox # ..
Geo coordinates:		
Serial number (TWBUL-XX-XXXX-XXX):		
DC Wallbox Number on site # (Pad ID):	DC Wallbox # ..	DC Wallbox # ..
Geo coordinates:		
Serial number (TWBUL-XX-XXXX-XXX):		

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All line items in the following sections must be checked thoroughly as pass or fail to ensure safe operation and warranty assurance:

Site safety checks (Please complete prior to contacting ABB)	
Item	**Pass (√) /Fail (X)**
Is there a work permit on site?	
Perform a LMRA. (Last Minute Risk Analysis)	
Check the work environment! Can you work safely? (Jump away space, etc.)	
Check the weather, take proper actions by setting up a tent in case of rain or heavy snow.	
Check for road signs/blocks. The work area should be properly closed to public access.	
Is everyone involved in the power-up wearing proper clothing and personal protection (PPE)?	
Lock the main installation breaker with the Lock-out tag-out set.	
Remarks:	

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Visual inspection and power up (Please complete prior to contacting ABB)				
Item	**Pass (√) /Fail (X)**			
	DC Wallbox #	DC Wallbox #	DC Wallbox #	DC Wallbox #
General inspection of Terra DC Wallbox(es).				
Complete the following steps BEFORE *Power Up*				
Check for any damage on the DC Wallbox(es) exterior cover and metal frame				
Check if the airflow of the DC Wallbox(es) is/are guaranteed in this setup (see Terra DC Wallbox UL Installation Manual)				
Verify DC Wallbox is not powered at AC terminals				
For 3-phase Terra DC Wallbox models, verify the ferrite core has been properly installed around the incoming power conductors. This step is mandatory to maintain the product warranty.				
Verify there is no short circuit after the installation breaker by measuring the resistance on AC input terminals				
• between phases should be > 0.5MΩ				
• between phases and ground should be infinite				
Measure Resistance between the DC+ and DC- on charging cable >1MΩ				
Measure Resistance between DC+ and PE, and DC- and PE Charging cable >1MΩ				
Complete the following steps AFTER *Power Up*				
Turn on system with either the external breaker or disconnect				
Verify input voltage is 208-240V for Single Phase, 480/277 for 3 Phase +10%/-15% between phases and verify the grid connection is supported by taking voltage measurements line to line, line to ground, and line to neutral (if applicable).				
Call the ABB Service Hotline to update software, firmware, network connected devices and verify unit is configured and setup on the network at 800-825-2556, Option 2. For other OCPP network choices, please contact the Network operator.				
Remarks:				

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Functional testing (After the CX appointment with ABB)				
Item	**Pass (√) /Fail (X)**			
	DC Wallbox #	DC Wallbox #	DC Wallbox #	DC Wallbox #
Human Machine Interface (HMI)				
Check that the HMI is ON and there is no error message on the screen				
Check if touchscreen is working properly by pushing information and language buttons				
Electrify America Dealership Program CSAT Vehicle test charge sessions are strongly recommended to validate correct installation. Test charge sessions should always occur in locations with available electric vehicles. ABB is not responsible for remedying improper installation or any impacts from improper installation.				
RECOMMENDED 1st charge session	**Pass (√) /Fail (X) /Not Applicable (N/A)**			
Site and park a standards compliant EV (CCS1 or CHAdeMO as applicable to product configuration) adjacent to the charge post				
Connect Charging cable to the car's charging inlet				
The screen should reflect that a car has been connected				
Press the start button on the HMI				
Let the car charge for one (1) minute				
Press the stop button on HMI screen to stop charging				
Disconnect the charging cable and hang it on the connector holder close to the Wallbox				
RECOMMENDED Functional test	**Pass (√) /Fail (X) /Not Applicable (N/A)**			
Charge the Car 5 times for one (1) minute each session				
RECOMMENDED Emergency stop check	**Pass (√) /Fail (X) /Not Applicable (N/A)**			
Start charging the car, during charging session press the emergency stop button				
Did the charge session stop immediately?				
Did the HMI display an error on the screen?				
Disconnect the cable from the car and release the emergency stop button				
Is the charger screen showing that the charger is ready and available again?				
Reconnect the charge cable to the car once more and verify that the car can charge normally.				
Remarks:				

UPON COMPLETION OF THE COMMISSIONING PLEASE EMAIL THE FORM(S) TO: us.evci.techteam@abb.com