Certificate Holder:	**ABB Chargedot Shanghai New Energy Technology Co.,Ltd**
Certificate Number:	**OCA.0016.0922.CS**
Product Type:	**Charging Station**
Product Designation:	**TAC-W22-S-RD-MC-0**
Firmware Version:	**TAC3Z91189067102 47::V1.8.40**
Certification Date:	**August 27, 2025**

This certificate attests that the above mentioned product successfully completed certification testing in conformance with the reference specification OCPP 1.6 (Edition 2 FINAL, 2017-09-28 including Errata 2025-04). The optional OCPP protocol features that are covered by this certificate can be found in the Abstract of the Test Report that is part of this certificate.

Test cases have been performed as described in the test report referred to below. The results and remarks can be found in this complete test report.

Applied	Performed by / On	Document Evidence
Conformance testing according to the test specification referenced by the test report	DEKRA Certification B.V August 27, 2025	OCPP-1.6-PICS-CS-2.1.0 - MID

The abstract of test report is an integral part of this certificate. This certificate is valid from the Certification Date specified above. This certificate is only applicable to the product designation described above and permits the use of the OCPP logo as laid down in the OCA certification logo license agreement on this product only.

This certificate shall neither be tendered nor accepted by any party as a guarantee covering quality of a product which includes OCPP. The Open Charge Alliance, and/or its agents, including, inter-alia, test laboratories, disclaim liability for any damages or losses incurred by the certified company or by any other party resulting from reliance on the results of OCPP certification testing.

For the Open Charge Alliance:

ONOPH CARON
Chairman

Authenticity of this certificate can be verified at www.openchargealliance.org

Abstract of the Test Report

Test Report OCPP 1.6 Certification

Test laboratory:	DEKRA Certification B.V
Location:	Arnhem, NL
Test Report Reference:	229695900

Product Designation:	TAC-W22-S-RD-MC-0
Vendor name:	ABB Chargedot Shanghai New Energy Technology Co.,Ltd
Device Under Test:	Charging Station
Firmware Version:	TAC3Z9118906710247::V1.8.40
Config ID:	EAF17702-FEDC357E

Test Result Summary for the Certified Functionalities

Certification Profile	Test Result	Description
Core	Pass	Basic Charging Station, functionality for booting, authorization, configuration, transactions, remote control.
Firmware Management	Pass	Support for firmware update management and diagnostic log file download.
Local Authorization List Management	Pass	Features to manage a local list in the charging station containing authorization data for whitelisting users.
Smart Charging	Pass	Support for Smart Charging, to control charging.
Remote Trigger	Pass	Support for remotely triggering messages that originate from a Charging Station. This can be used for resending messages or for getting the latest information from the Charging Station.
Reservation	Not Tested	Support for reservation of a connector of a Charging Station.

Hardware Feature Set

The Hardware Feature set is the actual set of relevant hardware properties of the product tested, that influence the OCPP messaging behavior. In the table below you can see for each hardware feature relevant for OCPP whether this is applicable for this product.

ID	Feature	Supported / Present
HFS-1	Has a detachable cable	Yes
HFS-2	Has a fixed cable	No
HFS-3	Has AC support	Yes
HFS-4	Has DC support	No
HFS-5	Has 1 phase support	No
HFS-6	Has 2 phase support	No
HFS-7	Has 3 phase support	Yes
HFS-8	No. Connectors	1
HFS-9	Communication technology	ethernet
HFS-10	RFID readers	Single

Connector	Current	Phases	Type	Cable Type
1	AC	3	sType2	Detachable Cable

Optional Features

The OCPP specification contains many implementation options that can be selected by a vendor, often in the form of optional message fields or configuration variables, that can be used to support advanced functions. Whereas the certification profiles determine which OCPP functionality is implemented, the features describe how much of a certain functionality in a profile has been implemented. The tables below indicate per certification profiles, for each available optional feature within this profile, whether this has been implemented in this product and tested for conformance or not.

Core		
ID	**Core Features**	**Supported / Present**
C-01	Support for offline authorization of transactions	Yes
C-02	Support for allowing Offline Authorization for Unknown Ids	No
C-03	Support for maximizing energy for invalid ids	Yes
C-04	Authorization Cache	Yes
C-05	Support to limit StatusNotifications	No
C-06	Authorization status after cable disconnected on EV side	
C-06.1	Support for maintaining authorization when cable disconnected on EV side	Yes
C-06.2	Support for not maintaining authorization when cable disconnected on EV side	Yes
C-07	Support for local start	Yes
C-08	Support for local stop	Yes
C-10	Unlocking of connector when cable disconnected on EV side	
C-10.1	Support for unlocking connector when cable disconnected on EV side	Yes
C-10.2	Support for not unlocking when cable disconnected on EV side	Yes

ID	Metervalues	Tested During Certification	Supported According to Vendor
C-09	Supported MeterValue Measurands		
C-09.1	MeterValuesSampled Data	Voltage Energy.Active.Import.Register Power.Active.Import Current.Offered Current.Import	Current.Import Current.Offered Energy.Active.Import.Register Power.Active.Import Voltage

ID	Metervalues	Tested During Certification	Supported According to Vendor
C-09.2	MeterValuesAligned Data	Energy.Active.Import.Register	Energy.Active.Import.Register

Smart Charging

ID	Certification Profile: Smart Charging	Supported / Present
SC-1	Supported charging rate units	
SC-1.1	A	Yes
SC-1.2	W	No

Firmware Management

ID	Certification Profile: Firmware Management	Supported / Present
F-1	Support for Secure Firmware Updates	No

Additional Questions

The table below lists a number of questions that are needed for determining the complete list of conformance test for this product.

ID	Additional Questions for Lab Testing	Answer
AQ-1	Can the last CentralSystemRootCertificate can be removed?	No
AQ-2	Does the Charging Station have a cable lock, which prevents the EV driver to connect the EV and EVSE before authorization?	No
AQ-3	Can the last ChargePointCertificate be removed?	No
AQ-4	Is your Charging Station able to download firmware while there is an ongoing transaction?	No
AQ-5	Does your Charging Station enforce a selection of EVSE prior to authorization?	No
AQ-6	Does your Charging Station support charging an EV using IEC 61851-1?	Yes
AQ-7	Reporting of StopTransaction after power loss	

ID	Additional Questions for Lab Testing	Answer
AQ-7.1	Charge Point configured to report StopTransaction before going down.	No
AQ-7.2	Charge Point configured to report StopTransaction after going down and being back online again.	Yes

Other Relevant Settings

The table below lists a number of settings that are needed for configuring the test setup for the conformance test for this product.

ID	Limit / Setting	Value
ORS-1	GetConfigurationMaxKeys	20
ORS-2	MeterValuesAlignedDataMaxLength	4
ORS-3	MeterValuesSampledDataMaxLength	22
ORS-4	Minimum MeterValueSampleInterval supported	1
ORS-5	Maximum MeterValueSampleInterval supported	65534
ORS-6	Minimum HeartbeatInterval supported	10
ORS-7	Maximum HeartbeatInterval supported	65534
ORS-8	StopTransactionMaxMeterValues	22
ORS-9	StopTxnAlignedDataMaxLength	7
ORS-10	StopTxnSampledDataMaxLength	5
ORS-11	WebSocketPingInterval	3

ID	Certification Profile: Local Authorization List Management	Value
ORS-12	LocalAuthListMaxLength	16
ORS-13	SendLocalListMaxLength	8

ID	Certification Profile: Smart Charging	Value
ORS-14	ChargingProfileMaxStackLevel	16
ORS-15	ChargingScheduleMaxPeriods	25
ORS-19	MaxChargingProfilesInstalled	16

ID	Firmware Management Settings	Value
ORS-16	Supported file transfer protocols	HTTP HTTPS FTP FTPS

Performance Measurement Result

The tables below shows the list of key performance indicators that are measured during the conformance test. The first table indicates the values that the vendor indicates that are valid maximum values for this product. The second table lists the actual performance measurements during the tests performed in a controlled environment.

Name	Max Value	Unit	Description
OCPP response timeout	9	seconds	The timeout used for exchanging OCPP response messages. Messages to the DUT can be handled within this timeout.
OCPP triggered function timeout	5	seconds	The timeout used for when waiting for an OCPP function with its corresponding request message. Messages to the DUT can be handled within this timeout. This value excludes firmware, diagnostics and rebooting
Transaction authorization time by RemoteStartTransaction	5	seconds	The time between the RemoteStartTransaction.req message and the corresponding StartTransaction.req. Only cases where the RemoteStartTransaction immediately results in an authorization followed by a StartTransaction.req are included.
Transaction authorization end time by RemoteStopTransaction	15	seconds	The time between the RemoteStopTransaction.req message and the corresponding StopTransaction.req. Only cases where the RemoteStopTransaction immediately results in an end of the authorization followed by a StopTransaction.req are included.

Name	Min Value	Max Value	Average Value	Unit
OCPP response timeout	0.04	8.52	0.21	seconds
OCPP triggered function timeout	0.09	1.13	0.39	seconds
Transaction authorization time by RemoteStartTransaction	1.74	1.74	1.74	seconds
Transaction authorization end time by RemoteStopTransaction	6.71	12.92	9.82	seconds

Communication technology used during performance measurement	Ethernet

Statement of Approval

Vendor		
Name	Sam Xu	Date: 2025-08-27
Company	ABB Chargedot Shanghai New Energy Technology Co.,Ltd	Signature:
Department	AC R&D	
Position	PTL&LAB Leader	
Location	3F, Building H, WESTLINK, No.2337, Gudai Road, Minhang, Shanghai	

Test Laboratory		
Name	Yigit Karabulut	Date: 2025-08-27
Company	DEKRA Certification B.V	Signature:
Department	CE	
Position	Senior Test Engineer	
Location	Arnhem, NL	

OCTT Version	Release_2025-06
OCTT Instance ID	fe2ebf39b9c1d376ce2a7662dfc853e3
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