



Certificate Holder: Electreon Wireless North America LLC
Certificate Number: OCA.0201.0174.CS
Product Type: Charging Station
Product Subtype: Wireless Charging Station
Product Designation: G20-GA-US300kW-1
Firmware Version: 1100
Certification Date: July 9, 2026

This certificate attests that the above mentioned product successfully completed certification testing in conformance with the reference specification OCPP 2.0.1 (Edition 4 FINAL, 2025-12-03 including Errata 2026-04). 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	DNV Energy USA, Inc. July 6, 2026	OCPP-2.0.1-PICS-CS-3.0.3 Electreon 2026-07-06

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

Abstract of the Test Report

Test Report OCPP 2.0.1 Certification

Test laboratory:	DNV Energy USA, Inc.
Location:	Rochester, NY, USA
Test Report Reference:	10633723-HOU-R-01-A
Test Location	King of Prussia, PA, USA
Product Designation:	G20-GA-US300kW-1
Vendor name:	Electreon Wireless North America LLC
Device Under Test:	Charging Station
Product Subtype	Wireless Charging Station
Firmware Version:	1100
Config ID:	F09D77A4-7D0DF55B

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, secure firmware updates and Security Profile 2.
Advanced Security	Not Tested	Support for TLS with client authentication.
Smart Charging	Not Tested	Support for Smart Charging, to control charging.
ISO 15118 Support	Not Tested	Support for ISO 15118 Smart Charging and Plug and Charge authorization.

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	No
HFS-2	Has a fixed cable	No
HFS-3	Has AC support	N.a. - Wireless
HFS-4	Has DC support	N.a. - Wireless
HFS-5	Has 1 phase support	No
HFS-6	Has 2 phase support	No
HFS-7	Has 3 phase support	No
HFS-8	No. EVSEs	1
HFS-9	Communication technology	Mobile network
HFS-10	RFID readers	None
HFS-11	Power level (kW)	300
HFS-12	Number of displays	0

EVSE	Current	Phases	Connector	Type	Cable Type
1	Wireless		1	wResonant	Other



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. Please refer to part 5 of the OCPP specification for the list of optional features and the reference to the relevant use cases in part 2 of the OCPP specification.

Core

ID	Core Features	Supported / Present
C-01	Support for offline authorization of transactions	No
C-02	Support for allowing Offline Authorization for Unknown Ids	No
C-03	Support for maximizing energy for invalid ids	No
C-04	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	No
C-06.2	Support for not maintaining authorization when cable disconnected on EV side	Yes
C-07	Support for using a Master Pass for charging stations with UI	No
C-08	Support for using a Master Pass for charging stations without UI	No
C-09	Supported Transaction Start points	
C-09.1	Start transaction options - EVConnected	No
C-09.2	Start transaction options - Authorized	No
C-09.3	Start transaction options - DataSigned	No
C-09.4	Start transaction options - PowerPathClosed	Yes
C-09.5	Start transaction options - EnergyTransfer	No
C-09.6	Start transaction options - ParkingBayOccupancy	No
C-10	Supported Transaction Stop points	
C-10.1	Stop transaction options - EVConnected	Yes
C-10.2	Stop transaction options - Authorized	Yes
C-10.3	Stop transaction options - PowerPathClosed	No
C-10.4	Stop transaction options - EnergyTransfer	No
C-10.5	Stop transaction options - ParkingBayOccupancy	No
C-12	Unlocking of connector when cable disconnected on EV side	

ID	Core Features	Supported / Present
C-12.1	Support for unlocking connector when cable disconnected on EV side	No
C-12.2	Support for not unlocking when cable disconnected on EV side	Yes
C-13	Support for Reset per EVSE	No
C-14	Support for retrieving / deleting CustomerInformation - CustomerIdentifier	No
C-20	Allowing New Sessions Pending a FirmwareUpdate	Yes
C-21	Support for queuing all or only Transaction related messages until they are delivered to the CSMS	No
C-23	Supported time sources	Heartbeat
C-25	Support for setting a TimeOffset	No
C-26	Support for setting the TimeZone	No
C-28	Toggle sending clock aligned meter values when a transaction is ongoing / Idle	No
C-29	TriggerMessage	
C-29.1	Trigger message - MeterValues	No
C-29.2	Trigger message - TransactionEvent	No
C-29.3	Trigger message - LogStatusNotification	No
C-29.4	Trigger message - FirmwareStatusNotification	No
C-29.5	Trigger message - StatusNotification	No
C-29.6	Trigger message - BootNotification	No

ID	Authorization Options for Local Start	Tested During Certification
C-30	Authorization - using RFID ISO14443	No
C-31	Authorization - using RFID ISO15693	No
C-32	Authorization - using KeyCode	No
C-33	Authorization - using locally generated id	No
C-34	Authorization - MacAddress	No
C-35	Authorization - NoAuthorization	No

ID	Authorization Options for Local Stop	Tested During Certification
C-70	Authorization - using RFID ISO14443	No
C-71	Authorization - using RFID ISO15693	No
C-72	Authorization - using KeyCode	No
C-75	Authorization - NoAuthorization	No

ID	Authorization Options for Remote Start	Tested During Certification
C-36	Authorization - using RFID ISO14443	No
C-37	Authorization - using RFID ISO15693	No
C-38	Authorization - using centrally, in the CSMS generated id	No
C-39	Authorization - NoAuthorization	Yes

ID	Metervalues	Tested During Certification	Supported According to Vendor
C-40	Supported MeterValue Measurands		
C-40.1	SampledTxBStarted Measurands	Energy.Active.Import.Register	Current.Import, Energy.Active.Import.Register, Power.Active.Import, SoC, Voltage
C-40.2	SampledTxBUpdated Measurands	Energy.Active.Import.Register Power.Active.Import SoC Voltage Current.Import	Current.Import, Energy.Active.Import.Register, Power.Active.Import, SoC, Voltage
C-40.3	SampledTxBEnded Measurands	Energy.Active.Import.Register	Current.Import, Energy.Active.Import.Register, Power.Active.Import, SoC, Voltage
C-40.4	AlignedData Measurands	Energy.Active.Import.Register Voltage	Current.Import, Energy.Active.Import.Register, Power.Active.Import, SoC, Voltage
C-40.5	AlignedDataTxEnded Measurands	Energy.Active.Import.Register	Current.Import, Energy.Active.Import.Register, Power.Active.Import, SoC, Voltage

ID	Cipher Suites	Supported / Present
C-41	Supported Cipher Suites	TLS_RSA_WITH_AES_128_GCM_SHA256 TLS_RSA_WITH_AES_256_GCM_SHA384

ID	Core Features	Supported / Present
C-42	Signed Metervalues	No
C-43	Install Firmware with ongoing transaction	No
C-47	Support for falling back to default OCPP reconnection mechanism when NetworkConnection profile connection has failed	No
C-48	Authorization of remote start	
C-48.1	Option for authorization in case of a remote start	No
C-48.2	Option for no authorization in case of a remote start	Yes
C-58	Option for disabling remote authorization	No
C-49	Authorization Cache	No
C-59	Option for disabling remote authorization for cached invalid idTokens	No
C-51	Configurable TxStartPoint	Yes
C-52	Configurable TxStopPoint	Yes
C-53	Support for lifetime cached token	No
C-54	Supported policies for replacing cached entries	No
C-56	Support for providing the SummaryInventory	Yes
C-57	Support for cancelling ongoing log file upload	No
C-60	Support for cancelling ongoing firmware update	No
C-61	Security Profile 1 - Unsecured Transport with Basic Authentication	No

ID	Reservations	Supported / Present
R-0	Support for Reservation	No
R-1	Support for reservations of connectorType	No
R-2	Support for reservation of unspecified EVSE	No
R-3	Support for disabling Reservations	No

ID	Advanced Device Management	Supported / Present
DM-0	Support for Advanced Device Management	No
DM-3	Queue notifyEventRequest messages for specific severities	No

ID	Local Authorization List Management	Supported / Present
LA-0	Support for Local Authorization List Management	No

ID	Local Authorization List Management	Supported / Present
LA-1	Authorization list support	No
LA-3	Option for disabling remote authorization for invalid idTokens stored at the Local Authorization List	No

ID	Advanced User Interface	Supported / Present
UI-0	Support for Advanced User Interface	No
UI-1	Supported message priorities	
UI-1.1	AlwaysFront	No
UI-1.2	InFront	No
UI-1.3	NormalCycle	No
UI-2	Supported message formats	
UI-2.1	ASCII	No
UI-2.2	HTML	No
UI-2.3	URI	No
UI-2.4	UTF8	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 CSMSRootCertificate be removed?	Yes
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 ChargingStationCertificate be removed?	No
AQ-4	Is there at least one unsupported NumberOfPhases?	No
AQ-5	Does the Charging Station have at least one hardWired monitor?	No
AQ-6	Does the Charging Station have a pre-configured monitor?	No
AQ-7	Is your Charging Station able to download firmware while there is an ongoing transaction?	No
AQ-8	Does your Charging Station enforce a selection of EVSE prior to authorization?	No

ID	Additional Questions for Lab Testing	Answer
AQ-9	Does your Charging Station support charging an EV using IEC 61851-1?	No
AQ-10	Does your Charging Station support setting a Delta monitor on the WriteOnly component.variable SecurityCtrlr.BasicAuthPassword?	No
AQ-11	Does your Charging Station support a combined charging station Certificate	No
AQ-18	Does your Charging Station have at least one connector with an mechanized locking mechanism on Charging Station side?	No

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	ItemsPerMessageGetReport	100
ORS-2	ItemsPerMessageGetVariables	100
ORS-3	ItemsPerMessageSetVariables	100
ORS-4	BytesPerMessageGetReport	2048
ORS-5	BytesPerMessageGetVariables	2048
ORS-6	BytesPerMessageSetVariables	2048
ORS-11	Minimum HeartbeatInterval supported	60
ORS-12	Maximum HeartbeatInterval supported	500
ORS-14	Minimum WebSocketPingInterval supported	5
ORS-15	Maximum WebSocketPingInterval supported	500
ORS-16	WebSocketPingInterval	10

ID	Security Related Settings	Value
ORS-17	Maximum CertificateEntries supported	100
ORS-18	MaxCertificateChainSize	10000

ID	Firmware Management Settings	Value
ORS-24	Supported file transfer protocols	HTTP HTTPS

Additional Network Communication Ports

Description	Protocol	Network Port	Direction	Secured
SSH	SSH	23	Inbound	Yes
Monitor	HTTP	9000	Inbound	Yes

Vendor Specific Settings

The table below should contain all relevant non-OCPP settings of the System Under Test that are relevant for the test laboratory and for the correct OCPP-compliant functioning :

Configuration Setting	Configured Value	Description
FreeMode	False	Charging is always authorized

Performance Measurement Result

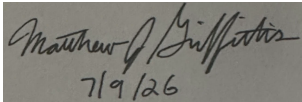
The tables below show the list of key performance indicators that are measured during the conformance test. The first table indicates the values that the vendor indicates that are valid maximum values for this product. The second table lists the actual performance measurements during the tests performed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

Name	Max Value	Unit	Description
OCPP response time	60	seconds	The response time for when waiting for an OCPP response message after sending an OCPP request message. This entails all OCPP messages. Messages to the DUT can be handled within this timeout.
OCPP triggered function response time	60	seconds	The response time used when waiting for an asynchronous OCPP report after requesting this report.
Transaction authorization time by RequestStartTransactionRequest	15	seconds	The time between a RequestStartTransactionRequest and the corresponding TransactionEventRequest. Only cases where the RequestStartTransactionRequest immediately results in an authorization followed by a TransactionEventRequest, without the need of any additional manual actions or chargingState transitions inbetween are included.
Transaction authorization end time by RequestStopTransactionRequest	15	seconds	The time between a RequestStopTransactionRequest and the corresponding TransactionEventRequest. Only cases where the RequestStopTransactionRequest immediately results in an end of the authorization followed by a TransactionEventRequest, that do not contain transactionInfo.chargingState = EVConnected are included.

Name	Min Value	Max Value	Average Value	Unit
OCPP response time	0.10	0.45	0.14	seconds
OCPP triggered function response time	0.14	1.79	0.99	seconds
Transaction authorization time by RequestStartTransactionRequest	1.08	1.79	1.47	seconds
Transaction authorization end time by RequestStopTransactionRequest	not measurable	not measurable	not measurable	seconds

Communication technology used during performance measurement	Mobile Network
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Statement of Approval

Vendor		
Name	Matt Griffiths	Date: 2026-07-09
Company	Electreon Wireless North America LLC	Signature:
Department	Software	
Position	Software Manager	
Location	King of Prussia, PA, USA	

Test Laboratory		
Name	John Watts	Date: 2026-07-09
Company	DNV Energy USA, Inc.	Signature:
Department	SAGE	
Position	Senior Engineer	
Location	Rochester, NY, USA	

OCTT Version	Release_2026-04
OCTT Instance ID	b550db2a00e69ba6cfcdd31bc3aa9cda
Firmware image hash	59f285ec0c100803cfe89549258b9682c4a385e3e5e47d6d8525f96421af7b54