

# OCPP 1.6 Subset Certificate



**Certificate holder:** ecarPlug Co., Ltd.  
**Certificate number:** OCA.0016.0378.CS  
**Product type:** Charging Station  
**Product designation:** AC/CPDA2C2  
OCPP Software version: 1.0.0  
Hardware feature set as stated below  
**Certification date:** May 25, 2023

This certificate attests that the above mentioned product successfully completed certification testing in conformance with the reference specification OCPP 1.6 – Edition 2 with OCPP 1.6 Errata sheet (v4.0 Release, 2019-10-23). The optional features of the protocol covered by this certificate can be found in the abstract 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 the complete test report.

Applied tests	Performed by / on	Document evidence
Conformance testing according to the test specification referenced by the test report	Korea Smart Grid Association, May 25, 2023	(KSGA)EcarPlug_Test Report template_CPDA2C2_230525

The abstract of test report in the Annex 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

A blue ink signature of Onoph Caron.

## Abstract of test report

### Test Result Summary

Test Report OCPP 1.6 Certification		
<b>Test laboratory:</b>	Korea Smart Grid Association	
<b>Location:</b>	Seoul , Korea	
<b>Test Report Reference:</b>	KSGA-OCPP1.6TEST-092-2023	
<b>Vendor name:</b>	ecarPlug Co., Ltd.	
<b>Device Under Test:</b>	Charging Station	
<b>Communication:</b>	JSON	
<b>OCPP Software version:</b>	1.0.0	
Test Result Summary for the certified functionalities		
Functionalities	OCPP 1.6 Certification Test Results	Description
<b>Core</b>	<b>Pass</b>	Basic Charging Station functionality for booting, authorization (incl. cache if available), configuration, transactions, remote control.
Optional features		
<b>Firmware Management</b>	<b>N/A</b>	Support for (remote) firmware update management and diagnostic log file download.
<b>Smart Charging</b>	<b>N/A</b>	Support for Smart Charging (all profile types, including stacking), to control charging.
<b>Reservation</b>	<b>N/A</b>	Support for reservation of a connector of a Charging Station.
<b>Local Authorization List Management</b>	<b>N/A</b>	Features to manage a local list in the charging station containing authorization data for whitelisting users.
<b>Remote Trigger</b>	<b>N/A</b>	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.

### Performance Measurement Results

Name	PICS value	Measured value	Description
OCPP triggered function timeout:	60s	00:00:13	The response time for when waiting for an OCPP function with its corresponding request message. (Firmware update, Diagnostics and Reboot are excluded from this measurement.)
OCPP response timeout:	10s	00:00:05	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	5s	00:00:01	The response time for the RemoteStartTransaction message.

### Test Configuration

<b>Vendor</b>	<b>ecarPlug Co., Ltd.</b>
<b>DUT / SUT</b>	Charging Station
<b>Communication</b>	JSON
<b>Type</b>	AC/CPDA2C2
<b>OCPP Software version</b>	1.0.0
<b>OCTT version</b>	OCTT 1.6 v1.4.3

#### Hardware feature set

Feature	Configuration
Socket(s) / connector(s)	Multiple
Fixed cable	<Yes>
Communication technology	Mobile Network
RFID readers	Single

#### Non-OCPP Charge Point Configuration

Configuration key	Value
<>	<>


#### All other relevant limits and non-OCPP settings that are relevant for the test laboratory and for the correct functioning of the CSMS:

Limit / setting	Value
Device supports sending milliseconds in timestamps.	Yes

OCPP Charging Station Configuration	
Configuration key	Value
AllowOfflineTxForUnknownId	-
AuthorizationCacheEnabled	-
AuthorizeRemoteTxRequests	TRUE
BlinkRepeat	-
ClockAlignedDataInterval	0
ConnectionTimeOut	60
ConnectorPhaseRotation	-
ConnectorPhaseRotationMaxLength	-
GetConfigurationMaxKeys	20
HeartbeatInterval	20
LightIntensity	-
LocalAuthorizeOffline	TRUE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	-
MessageTimeout	-
MeterValuesAlignedData	Energy.Active.Import.Register
MeterValuesAlignedDataMaxLength	5
MeterValuesSampledData	Energy.Active.Import.Register, Energy.Reactive.Import.Register
MeterValuesSampledDataMaxLength	5
MeterValueSampleInterval	10
MinimumStatusDuration	0
NumberOfConnectors	2
ResetRetries	5
StopTransactionMaxMeterValues	99999999,999
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	FALSE
StopTxnAlignedData	Energy.Active.Import.Register
StopTxnAlignedDataMaxLength	6
StopTxnSampledData	-
StopTxnSampledDataMaxLength	1
SupportedFeatureProfiles	Core
SupportedFeatureProfilesMaxLength	-
TransactionMessageAttempts	1
TransactionMessageRetryInterval	15
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	900
LocalAuthListEnabled	-
LocalAuthListMaxLength	-
SendLocalListMaxLength	-
ReserveConnectorZeroSupported	-
ChargeProfileMaxStackLevel	-
ChargingScheduleAllowedChargingRateUnit	-
ChargingScheduleMaxPeriods	-
ConnectorSwitch3to1PhaseSupported	-
MaxChargingProfilesInstalled	-
SupportedFileTransferProtocols	-

Statement of Approval

Vendor		Date: 2023.05.25
Name	Kwang Seob Shin	Signature
Company	ecarPlug Co., Ltd.	
Department	President	
Position	CEO	
Location	Seongnam, Korea	

Test laboratory		Date: 2023.05.25
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	
Department	Quality Certification Center	
Position	Chief Researcher	
Location	Seoul, Korea	