OCPP 1.6 Subset Certificate



Certificate holder: EL-Electric Co.

Certificate number: OCA.0016.0278.CS

Product type: Charging Station

Product designation: DC30kW/EL-D030M1C

OCPP Software version: 1.1.1

Hardware feature set as stated below

Certification date: February 15, 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, February 15, 2023	(KSGA)EL-Electric_Test Report template_EL-D030M1C_20230215

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:

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Abstract of test report

Test Result Summary

Test Report OCPP 1.6 Certification			
Test laboratory:	Korea Smart Grid Association		
Location:	Seoul , Korea		
Test Report Reference: KSGA-OCPP1.6TEST-024-2023			
Vendor name:	EL-Electric Co.		
Device Under Test:	Charging Station		
Communication: JSON			
OCPP Software version:	1.1.1		

Test Result Summary for the certified functionalities

Functionalities	OCPP 1.6 Certification Test Results	Description
Core	Pass	Basic Charging Station functionality for booting, authorization (incl. cache if available), configuration, transactions, remote control.

Optional features		
Firmware Management	N/A	Support for (remote) firmware update management and diagnostic log file download.
Smart Charging	N/A	Support for Smart Charging (all profile types, including stacking), to control charging.
Reservation	N/A	Support for reservation of a connector of a Charging Station.
Local Authorization List Manageme	N/A	Features to manage a local list in the charging station containing authorization data for whitelisting users.
Remote Trigger	N/A	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.

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Performance Measurement Results

Name	PICS value	Measured value	Description
OCPP triggered function timeout:	60s	00:00:12	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:	60s	0:0002	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	60s	00:00:00	The response time for the RemoteStartTransaction message.

Test Configuration

Vendor	EL-Electric Co.
DUT / SUT	Charging Station
Communication	JSON
Туре	DC30kW/EL-D030M1C
OCPP Software version	1.1.1
OCTT version	OCTT 1.6 v1.4.3

Hardware feature set				
Feature Configuration				
Socket(s) / connector(s)	Single			
Fixed cable	<yes></yes>			
Communication technology	Ethernet			
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	FALSE
AuthorizationCacheEnabled	FALSE
AuthorizeRemoteTxRequests	FALSE
BlinkRepeat	0
ClockAlignedDataInterval	0
ConnectionTimeOut	90
ConnectorPhaseRotation	Unknown
ConnectorPhaseRotationMaxLength	0
GetConfigurationMaxKeys	0
HeartheatInterval	60
LightIntensity	0
Local AuthorizeOffline	FALSE
Local Authorize Comme	
	0
MaxEnergyOnInvalidId	0
MessageTimeout	-
MeterValuesAlignedData	0
MeterValuesAlignedDataMaxLength	50
MeterValuesSampledData	Energy.Active.Import.Register
MeterValuesSampledDataMaxLength	50
MeterValueSampleInterval	300
MinimumStatusDuration	10
NumberOfConnectors	1
ResetRetries	0
StopTransactionMaxMeterValues	50
StopTransactionOnEVSideDisconnect	FALSE
StopTransactionOnInvalidId	FALSE
StopTxnAlignedData	0
StopTxnAlignedDataMaxLength	5
StopTxnSampledData	0
StopTxnSampledDataMaxLength	50
SupportedFeatureProfiles	Core
SupportedFeatureProfilesMaxLength	5
TransactionMessageAttempts	0
TransactionMessageRetryInterval	10
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	0
Local AuthListEnabled	-
LocalAuthListMaxLength	-
SendLocalListMaxLength	-
ReserveConnectorZeroSupported	
ChargeProfileMaxStackLevel	-
ChargingScheduleAllowedChargingRateUnit	-
ChargingScheduleMaxPeriods	-
ConnectorSwitch3to1PhaseSupported	-
MaxChargingProfilesInstalled	<u>-</u>



Statement of Approval

Vendor		Date : 2023.02.15
Name	Park Jeonggeun	Signature
Company	EL-Electric Co.	_
Department	President	
Position	Chief Executive Officer	5/4/21
Location	Chungcheongbuk-do, Korea	

Test laboratory		Date : 2023.02.15
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	L ₂
Department	Quality Certification Center	
Position	Senior Researcher	
Location	Seoul, Korea	