

OCPP 1.6 Full Certificate



Certificate holder: Beijing X-CHARGE Technology Co., Ltd.
Certificate number: OCA.0016.0462.CS
Product type: Charging Station
Product designation: C6EU
OCPP Software version: V2.1.11_C6EU_OCPC
Hardware feature set as stated below
Certification date: September 18, 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 are also covered by this certification.

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
<i>Conformance testing according to the test specification referenced by the test report</i>	DEKRA Certification NL, September 18, 2023	<i>Xcharge Test Report _ChargingStation_v1.05_9</i>

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, the Chairman of the Open Charge Alliance.

Abstract of test report

Test Result Summary

Test Report OCPP 1.6 Certification		
Test laboratory:	DEKRA Certification B.V.	
Location:	Arnhem, Netherlands	
Test Report Reference:	227191300	
Vendor name:	Beijing X-CHARGE Technology Co., Ltd.	
Device Under Test:	Charging Station	
Communication:	JSON	
OCPP Software version:	V2.1.11_C6EU_OCPP	
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	Pass	Support for (remote) firmware update management and diagnostic log file download.
Smart Charging	Pass	Support for Smart Charging (all profile types, including stacking), to control charging.
Reservation	Pass	Support for reservation of a connector of a Charging Station.
Local Authorization List Management	Pass	Features to manage a local list in the charging station containing authorization data for whitelisting users.
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.

Performance Measurement Results

Name	PICS value	Measured value	Description
OCPP triggered function timeout:	3s	3s	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:	2s	2s	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	1s	0s	The response time for the RemoteStartTransaction message.

Test Configuration

Vendor	Beijing X-CHARGE Technology Co., Ltd.
DUT / SUT	Charge Point
Communication	JSON
Type	C6
OCPP Software version	V2.1.11_C6EU_OCPC
OCTT version	OCTT 1.6 v1.4.3

Hardware feature set

Feature	Configuration
Socket(s) / connector(s)	Multiple
Fixed cable	Yes
Communication technology	WiFi / ethernet / mobile network
RFID readers	Single

Non-OCPP Charge Point Configuration

Configuration key	Value
CCOActive	TRUE
CCOAuthorizationAmount	5000
CCORequestSettlementAmountMessageAttempts	10
CCORequestSettlementAmountMessageRetryInte	15
CCOFallbackPricePerKWh	0
CCOCurrency	EUR

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	not supported
AuthorizationCacheEnabled	TRUE
AuthorizeRemoteTxRequests	TRUE
BlinkRepeat	100
ClockAlignedDataInterval	0
ConnectionTimeOut	160
ConnectorPhaseRotation	2
ConnectorPhaseRotationMaxLength	not supported
GetConfigurationMaxKeys	41
HeartbeatInterval	60
LightIntensity	100
LocalAuthorizeOffline	FALSE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	not supported
MessageTimeout	not supported
MeterValuesAlignedData	Energy.Active.Import.Register
MeterValuesAlignedDataMaxLength	not supported
MeterValuesSampledData	Energy.Active.Import.Register, Voltage, Power.Active.Import, SoC, Current.Import, Temperature
MeterValuesSampledDataMaxLength	not supported
MeterValueSampleInterval	60
MinimumStatusDuration	not supported
NumberOfConnectors	2
ResetRetries	3
StopTransactionMaxMeterValues	not supported
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	TRUE
StopTxnAlignedData	Energy.Active.Import.Register
StopTxnAlignedDataMaxLength	1
StopTxnSampledData	SoC, Energy.Active.Import.Register
StopTxnSampledDataMaxLength	2
SupportedFeatureProfiles	Core, FirmwareManagement, LocalAuthListManagement, Reservation, SmartCharging, RemoteTrigger
SupportedFeatureProfilesMaxLength	not supported
TransactionMessageAttempts	3
TransactionMessageRetryInterval	60
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	15
LocalAuthListEnabled	TRUE
LocalAuthListMaxLength	50
SendLocalListMaxLength	50
ReserveConnectorZeroSupported	not supported
ChargeProfileMaxStackLevel	3
ChargingScheduleAllowedChargingRateUnit	Current, Power
ChargingScheduleMaxPeriods	2
ConnectorSwitch3to1PhaseSupported	not supported
MaxChargingProfilesInstalled	9
SupportedFileTransferProtocols	not supported

Statement of Approval

Vendor		18-sep-23
Name	Wei Liu	Signature
Company	Beijing X-CHARGE Technology Co., Ltd.	<i>Wei Liu</i>
Department	R&D	
Position	Product Manager	
Location	Beijing, China	

Test laboratory		17-sep-23
Name	Babiker Abdalla	Signature
Company	DEKRA Certification B.V.	<i>Biko</i>
Department	CEEM	
Position	Test Engineer	
Location	Arnhem, Netherlands	