OCPP 1.6 Full Certificate

OCPP 1.6
Fully Certified

Certificate holder:	Shenzhen Infypower Co.,Ltd
Certificate number:	OCA.0016.0399.CS
Product type:	Charging Station
Product designation:	EXP Series OCPP Software version: N5.0.2 Hardware feature set as stated below
Certification date:	June 20, 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
Conformance testing according to the test specification referenced by the test report	*Korea Smart Grid Association,* June 20, 2023	*(KSGA)Infypower_Test Report template_EXP Series_230620*

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

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-106-2023
Vendor name:	Shenzhen Infypower Co.,Ltd
Device Under Test:	Charging Station
Communication:	JSON
OCPP Software version:	N5.0.2

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 Managemen	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:	40s	00:00:32	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:	15s	00:00:03	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	3s	00:00:01	The response time for the RemoteStartTransaction message.

Test Configuration

Vendor	Shenzhen Infypower Co.,Ltd
DUT / SUT	Charging Station
Communication	JSON
Type	EXP Series
OCPP Software version	N5.0.2
OCTT version	OCTT 1.6 v1.4.3

Hardware feature set	
Feature	Configuration
Socket(s) / connector(s)	Multiple
Fixed cable	<Yes>
Communication technology	Ethernet
RFID readers	Single

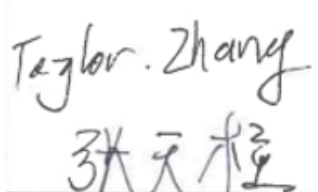| Non-OCPP Charge Point Configuration	
Configuration key	Value
<>	<>

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	TRUE
AuthorizeRemoteTxRequests	TRUE
BlinkRepeat	0
ClockAlignedDataInterval	0
ConnectionTimeOut	30
ConnectorPhaseRotation	NotApplicable
ConnectorPhaseRotationMaxLength	3
GetConfigurationMaxKeys	10
HeartbeatInterval	20
LightIntensity	0
LocalAuthorizeOffline	FALSE
LocalPreAuthorize	TRUE
MaxEnergyOnInvalidId	0
MessageTimeout	-
MeterValuesAlignedData	Temperature
MeterValuesAlignedDataMaxLength	10
MeterValuesSampledData	Current.Export, Current.Import, Energy.Active.Export.Register, Energy.Active.Import.Register, Power.Active.Export, Power.Active.Import, SoC, Temperature, Voltage
MeterValuesSampledDataMaxLength	15
MeterValueSampleInterval	20
MinimumStatusDuration	0
NumberOfConnectors	2
ResetRetries	0
StopTransactionMaxMeterValues	-
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	TRUE
StopTxnAlignedData	FALSE
StopTxnAlignedDataMaxLength	0
StopTxnSampledData	FALSE
StopTxnSampledDataMaxLength	0
SupportedFeatureProfiles	Core, FirmwareManagement, LocalAuthListManagement, Reservation, SmartCharging, RemoteTrigger
SupportedFeatureProfilesMaxLength	6
TransactionMessageAttempts	0
TransactionMessageRetryInterval	0
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	5

LocalAuthListEnabled	FALSE
LocalAuthListMaxLength	1000000
SendLocalListMaxLength	400
ReserveConnectorZeroSupported	ONWAAR

ChargeProfileMaxStackLevel	2
ChargingScheduleAllowedChargingRateUnit	Ampère & Watt
ChargingScheduleMaxPeriods	48
ConnectorSwitch3to1PhaseSupported	FALSE
MaxChargingProfilesInstalled	14

SupportedFileTransferProtocols	ftp

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Statement of Approval

Vendor		Date: 2023.06.20	
Name	Taylor.Zhang	Signature	
Company	Shenzhen Infypower Co.,Ltd		
Department	Monitoring Solution Dept.		
Position	Director		
Location	Shenzhen, China		

Test laboratory		Date: 2023.06.20	
Name	Philip YANG	Signature	
Company	Korea Smart Grid Association		
Department	Quality Certification Center		
Position	Chief Researcher		
Location	Seoul, Korea		