

# OCPP 1.6 Full Certificate



**Certificate holder:** Borgwarner New Energy (Xiangyang) Co., Ltd.  
**Certificate number:** OCA.0016.0342.CS  
**Product type:** Charging Station  
**Product designation:** DC EV Charger  
OCPP Software version: OCPP-J-1.6\_3\_1  
Hardware feature set as stated below  
**Certification date:** May 26, 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>	<i>DNV Singapore Pte. Ltd., May 26, 2023</i>	<i>DNV_OCPP 1.6 Test Report_CP_Borgwarner (was Hubei SSNE)_20230526</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, Chairman of the Open Charge Alliance.

## Abstract of test report

### Test Result Summary

Test Report OCPP 1.6 Certification	
<b>Test laboratory:</b>	DNV Singapore Pte. Ltd.
<b>Location:</b>	Singapore
<b>Test Report Reference:</b>	DNV_OCPCP1.6 TEST_CP_20230526
<b>Vendor name:</b>	Borgwarner New Energy (Xiangyang) Co., Ltd. (was: Hubei Surpass Sun New Energy Technology Co., Ltd)
<b>Device Under Test:</b>	Charging Station
<b>Communication:</b>	JSON
<b>OCPP Software version:</b>	OCPP-J-1.6_3_1

### Test Result Summary for the certified functionalities

Optional features		
<b>Firmware Management</b>	Pass	Support for (remote) firmware update management and diagnostic log file download.
<b>Smart Charging</b>	Pass	Support for Smart Charging (all profile types, including stacking), to control charging.
<b>Reservation</b>	Pass	Support for reservation of a connector of a Charging Station.
<b>Local Authorization List Management</b>	Pass	Features to manage a local list in the charging station containing authorization data for whitelisting users.
<b>Remote Trigger</b>	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:	70 seconds	0:01:06	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:	40 seconds	0:00:35	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	10 second	0:00:04	The response time for the RemoteStartTransaction message.

### Test Configuration

<b>Vendor</b>	<b>Borgwarner New Energy (Xiangyang) Co., Ltd. (was: Hubei Surpass Sun New Energy Technology Co., Ltd)</b>
<b>DUT / SUT</b>	Charge Point
<b>Communication</b>	JSON
<b>Type</b>	DC EV Charger
<b>OCPP Software version</b>	OCPP-J-1.6_3_1
<b>OCTT version</b>	OCTT 1.6 v 1.4.3

#### 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	-
AuthorizationCacheEnabled	TRUE
AuthorizeRemoteTxRequests	TRUE
BlinkRepeat	-
ClockAlignedDataInterval	0
ConnectionTimeOut	60
ConnectorPhaseRotation	null
ConnectorPhaseRotationMaxLength	-
GetConfigurationMaxKeys	32
HeartbeatInterval	30
LightIntensity	-
LocalAuthorizeOffline	FALSE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	-
MessageTimeout	-
MeterValuesAlignedData	Energy.Active.Import.Register,Current.Import,Voltage
MeterValuesAlignedDataMaxLength	-
MeterValuesSampledData	Energy.Active.Import.Register,Power.Active.Import,SoC
MeterValuesSampledDataMaxLength	-
MeterValueSampleInterval	90
MinimumStatusDuration	-
NumberOfConnectors	2
ResetRetries	3
StopTransactionMaxMeterValues	-
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	TRUE
StopTxnAlignedData	null
StopTxnAlignedDataMaxLength	-
StopTxnSampledData	null
StopTxnSampledDataMaxLength	-
SupportedFeatureProfiles	Core,FirmwareManagement,LocalAuthListManagement,Reservation,SmartCharging,RemoteTrigger
SupportedFeatureProfilesMaxLength	-
TransactionMessageAttempts	10
TransactionMessageRetryInterval	3
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	30
LocalAuthListEnabled	FALSE
LocalAuthListMaxLength	50
SendLocalListMaxLength	10
ReserveConnectorZeroSupported	FALSE
ChargeProfileMaxStackLevel	6
ChargingScheduleAllowedChargingRateUnit	Power
ChargingScheduleMaxPeriods	6
ConnectorSwitch3to1PhaseSupported	-
MaxChargingProfilesInstalled	8
SupportedFileTransferProtocols	ftp

Statement of Approval

Vendor		Date: 2023.05.26
Name	Jiaqiang Yan	Signature  
Company	Borgwarner New Energy (Xiangyang) Co., Ltd. (was: Hubei Surpass Sun New Energy Technology Co., Ltd)	
Department	R&D Department	
Position	Software Engineer	
Location	No.59 Guanyu Road, Tuanshan Town, Xiangyang High-tech Zone, China	

Test laboratory		Date: 2023.05.26
Name	Ivan Christian	Signature  
Company	DNV Singapore Pte. Ltd.	
Department	Energy Systems	
Position	Senior Consultant	
Location	Singapore	