

# OCPP 1.6 Full Certificate



**Certificate holder:** Starcharge Energy Pte. Ltd.  
**Certificate number:** OCA.0016.0728.CSMS  
**Product type:** Charging Station Management System  
**Product designation:** Charging Station Management System  
OCPP Software version: v1.1  
**Certification date:** April 29, 2024

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., April 29, 2024</i>	<i>DNV_OCPP 1.6 Test Report_CSMS_Starcharge_signed</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

## 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_OCPP1.6TEST_CSMS_Starcharge	
<b>Vendor name:</b>	Starcharge Energy Pte. Ltd.	
<b>Device Under Test:</b>	CSMS	
<b>Communication:</b>	JSON	
<b>OCPP Software version:</b>	v1.1	
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.
<b>Firmware Management</b>	<b>Pass</b>	Support for (remote) firmware update management and diagnostic log file download.
<b>Smart Charging</b>	<b>Pass</b>	Support for Smart Charging (all profile types, including stacking), to control charging.
<b>Reservation</b>	<b>Pass</b>	Support for reservation of a connector of a Charging Station.
<b>Local Authorization List Management</b>	<b>Pass</b>	Features to manage a local list in the charging station containing authorization data for whitelisting users.
<b>Remote Trigger</b>	<b>Pass</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 response timeout:	30 seconds	0:00:01	The response time for when waiting for an OCPP response message.
Response time Authorize:	30 seconds	0:00:00	The response time for the Authorize message.


### Test Configuration


<b>Vendor</b>	<b>Starcharge Energy Pte. Ltd.</b>
<b>DUT / SUT</b>	CSMS
<b>Communication</b>	JSON
<b>OCPP Software version</b>	v1.1
<b>OCTT version</b>	OCTT 1.6 v.1.4.3

All 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

Statement of Approval

Vendor		Date: 29.04.2024
Name	Yicong Zhou	Signature 
Company	Starcharge Energy Pte. Ltd.	
Department	Cloud BD	
Position	Cloud Product Solution Manager	
Location	Singapore	

Test laboratory		Date: 29.04.2024
Name	Liu Xinyang	Signature 
Company	DNV Singapore Ptd. Ltd.	
Department	Energy Systems	
Position	Consultant	
Location	Singapore	