

# OCPP 1.6 Subset Certificate



**Certificate holder:** Pline Motors Co.,Ltd  
**Certificate number:** OCA.0016.0404.CS  
**Product type:** Charging Station  
**Product designation:** NE-R50  
OCPP Software version: 1.0.4.8  
Hardware feature set as stated below  
**Certification date:** June 21, 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, June 21, 2023	(KSGA)Pline Motors_Test Report template_NE-R50_230621

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		
<b>Test laboratory:</b>	Korea Smart Grid Association	
<b>Location:</b>	Seoul , Korea	
<b>Test Report Reference:</b>	KSGA-OCPP1.6TEST-112-2023	
<b>Vendor name:</b>	Pline Motors Co.,Ltd	
<b>Device Under Test:</b>	Charging Station	
<b>Communication:</b>	JSON	
<b>OCPP Software version:</b>	1.0.4.8	
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.
Optional features		
<b>Firmware Management</b>	<b>Pass</b>	Support for (remote) firmware update management and diagnostic log file download.
<b>Smart Charging</b>	<b>N/A</b>	Support for Smart Charging (all profile types, including stacking), to control charging.
<b>Reservation</b>	<b>N/A</b>	Support for reservation of a connector of a Charging Station.
<b>Local Authorization List Management</b>	<b>N/A</b>	Features to manage a local list in the charging station containing authorization data for whitelisting users.
<b>Remote Trigger</b>	<b>N/A</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 triggered function timeout:	60s	00:00:41	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:	10s	00:00:01	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	10s	00:00:00	The response time for the RemoteStartTransaction message.

### Test Configuration

<b>Vendor</b>	<b>Pline Motors Co.,Ltd</b>
<b>DUT / SUT</b>	Charging Station
<b>Communication</b>	JSON
<b>Type</b>	NE-R50
<b>OCPP Software version</b>	1.0.4.8
<b>OCTT version</b>	OCTT 1.6 v1.4.3

#### Hardware feature set

Feature	Configuration
Socket(s) / connector(s)	Single
Fixed cable	<Yes>
Communication technology	Ethernet, Mobile network
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	-
AuthorizeRemoteTxRequests	TRUE
BlinkRepeat	3
ClockAlignedDataInterval	0
ConnectionTimeOut	60
ConnectorPhaseRotation	-
ConnectorPhaseRotationMaxLength	-
GetConfigurationMaxKeys	20
HeartbeatInterval	300
LightIntensity	80
LocalAuthorizeOffline	FALSE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	5000
MessageTimeout	-
MeterValuesAlignedData	-
MeterValuesAlignedDataMaxLength	7
MeterValuesSampledData	-
MeterValuesSampledDataMaxLength	7
MeterValueSampleInterval	20
MinimumStatusDuration	0
NumberOfConnectors	1
ResetRetries	3
StopTransactionMaxMeterValues	99999999.999
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	TRUE
StopTxnAlignedData	-
StopTxnAlignedDataMaxLength	12
StopTxnSampledData	-
StopTxnSampledDataMaxLength	12
SupportedFeatureProfiles	Core,FirmwareManagement
SupportedFeatureProfilesMaxLength	-
TransactionMessageAttempts	3
TransactionMessageRetryInterval	30
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	540
LocalAuthListEnabled	-
LocalAuthListMaxLength	-
SendLocalListMaxLength	-
ReserveConnectorZeroSupported	-
ChargeProfileMaxStackLevel	-
ChargingScheduleAllowedChargingRateUnit	-
ChargingScheduleMaxPeriods	-
ConnectorSwitch3to1PhaseSupported	-
MaxChargingProfilesInstalled	-
SupportedFileTransferProtocols	http,ftp

*Statement of Approval*

<b>Vendor</b>		<b>Date:</b> 2023.06.21
<b>Name</b>	Hobum Hong	Signature
<b>Company</b>	Pline Motors Co.,Ltd	
<b>Department</b>	Quality Assurance Team	
<b>Position</b>	Team Manager	
<b>Location</b>	Seoul, Korea	

<b>Test laboratory</b>		<b>Date:</b> 2023.06.21
<b>Name</b>	Philip YANG	Signature
<b>Company</b>	Korea Smart Grid Association	
<b>Department</b>	Quality Certification Center	
<b>Position</b>	Chief Researcher	
<b>Location</b>	Seoul, Korea	