OCPP 1.6
Full Certificate

OCPP1.6
Fully
Certified

Certificate holder: Dalian Luobinsen Power Equipment Co.,Ltd

Certificate number: OCA.0016.0385.CS

Product type: Charging Station

Product designation: LNkW-EN
OCPP Software version: 1.0.00
Hardware feature set as stated below

Certification date: August 2, 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	*DNV Singapore Pte. Ltd.,* *August 2, 2023*	*DNV_OCPP 1.6 Test Report_CP_Luobinsen*

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:	**DNV Singapore Pte. Ltd.**
Location:	Dalian, China
Test Report Reference:	DNV_OCPP1.6_TEST_CP_20230802
Vendor name:	**Dalian Luobinsen Power Equipment Co.,Ltd**
Device Under Test:	Charging Station
Communication:	JSON
OCPP Software version:	1.0.00

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:	60 seconds	58 seconds	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:	10 seconds	1 second	The response time for when waiting for an OCPP response message.
Response time RemoteStartTransaction:	1 second	1 second	The response time for the RemoteStartTransaction message.

Test Configuration

Vendor	Dalian Luobinsen Power Equipment Co.,Ltd
DUT / SUT	Charge Point
Communication	JSON
Type	LNkW-EN
OCPP Software version	1.0.00
OCTT version	OCTT 1.6 v 1.4.3

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**
<>	<>

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.	No

OCPP Charging Station Configuration

Configuration key	Value
AllowOfflineTxForUnknownId	TRUE
AuthorizationCacheEnabled	TRUE
AuthorizeRemoteTxRequests	TRUE
BlinkRepeat	96
ClockAlignedDataInterval	0
ConnectionTimeOut	60
ConnectorPhaseRotation	0.RST
ConnectorPhaseRotationMaxLength	3
GetConfigurationMaxKeys	10
HeartbeatInterval	10
LightIntensity	100
LocalAuthorizeOffline	TRUE
LocalPreAuthorize	FALSE
MaxEnergyOnInvalidId	300000
MessageTimeout	-
MeterValuesAlignedData	Energy.Active.Import.Interval
MeterValuesAlignedDataMaxLength	5
MeterValuesSampledData	Energy.Active.Import.Register,SoC,Voltage,Temperature,Current.Import,Power.Active.Import
MeterValuesSampledDataMaxLength	500
MeterValueSampleInterval	30
MinimumStatusDuration	0
NumberOfConnectors	2
ResetRetries	3
StopTransactionMaxMeterValues	-
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	TRUE
StopTxnAlignedData	Energy.Active.Import.Register
StopTxnAlignedDataMaxLength	5
StopTxnSampledData	Energy.Active.Import.Interval
StopTxnSampledDataMaxLength	5
SupportedFeatureProfiles	Core,FirmwareManagement,LocalAuthListManagement,Reservation,SmartCharging,RemoteTrigger
SupportedFeatureProfilesMaxLength	5
TransactionMessageAttempts	3
TransactionMessageRetryInterval	3
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	60
LocalAuthListEnabled	TRUE
LocalAuthListMaxLength	2000
SendLocalListMaxLength	40
ReserveConnectorZeroSupported	TRUE
ChargeProfileMaxStackLevel	10
ChargingScheduleAllowedChargingRateUnit	Current,Power
ChargingScheduleMaxPeriods	3
ConnectorSwitch3to1PhaseSupported	FALSE
MaxChargingProfilesInstalled	25
SupportedFileTransferProtocols	ftp

Statement of Approval

Vendor		Date: 2023.08.02	
Name	魏东升 Dongsheng Wei	**Signature**	
Company	Dalian Luobinsen Power Equipment Co.,Ltd		
Department	R & D		
Position	R & D Director		
Location	Dalian, China		

Test laboratory		Date: 2023.08.02	
Name	Sukoco	**Signature**	
Company	DNV Singapore Pte. Ltd.		
Department	Energy Systems		
Position	Senior Consultant		
Location	Singapore		