# OCPP 1.6 Full Certificate



Certificate holder: Zerova Technologies Taiwan Limited

Certificate number: OCA.0016.0212.CS

Product type: Charging Station

Product designation: DSWU182

OCPP Software version: V1.00

Hardware feature set as stated below

Certification date: November 1, 2022

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, November 1, 2022	KSGA_20221101_Test Report_ZerovaTech

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-127-2022		
Vendor name:	Zerova Technologies Taiwan Limited		
Device Under Test:	Charging Station		
Communication:	JSON		
OCPP Software version:	V1.00		

## 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

Performance Measurement Results				
Name	PICS value	Measured value	Description	
OCPP triggered function timeout:	120s	00:01:49	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	00:00:03	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

#### Test Configuration

Vendor	Zerova Technologies Taiwan Limited
DUT / SUT	Charging Station
Communication	JSON
Туре	DSWU182
OCPP Software version	V1.00
OCTT version	OCTT 1.6 v1.4.3

Hardware feature set				
Feature Configuration				
Socket(s) / connector(s)	Multiple			
Fixed cable	<yes></yes>			
Communication technology	Wifi, 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		



Configuration key	Value
AllowOfflineTxForUnknownId	FALSE
AuthorizationCacheEnabled	TRUE
AuthorizeRemoteTxRequests	TRUE
BlinkRepeat	0
ClockAlignedDataInterval	0
ConnectionTimeOut	60
ConnectorPhaseRotation	NotApplicable
ConnectorPhaseRotationMaxLength	1
GetConfigurationMaxKeys	22
HeartbeatInterval	20
LightIntensity	0
Local Authorize Offline	TRUE
LocalPreAuthorize	TRUE
MaxEnergyOnInvalidId	0
	0
MessageTimeout	Comment Insurant Francis Astists Insurant Re
	Current.Import,Energy.Active.Import.Re
Meter Values Aligned Data	ster,Energy.Active.Import.Interval,Power
_	ctive.Import,Voltage,SoC,Current.Offere
	Power.Offered
MeterValues Aligned Data Max Length	8
	Current.Import,Energy.Active.Import.Re
MeterValuesSampledData	ster,Energy.Active.Import.Interval,Power
Wieter valuessampleabata	ctive.Import,Voltage,SoC,Current.Offere
	Power.Offered
MeterValuesSampledDataMaxLength	8
MeterValueSampleInterval	15
MinimumStatusDuration	120
NumberOfConnectors	2
ResetRetries	3
StopTransactionMaxMeterValues	999999,99
StopTransactionOnEVSideDisconnect	TRUE
StopTransactionOnInvalidId	FALSE
StopTxnAlignedData	-
StopTxnAlignedDataMaxLength	8
StopTxnSampledData	_
StopTxnSampledDataMaxLength	8
otop milionipious atamanaeriga.	Core,FirmwareManagement,LocalAuthL
SupportedFeatureProfiles	Management, Reservation, SmartChargin
supported data or rollies	RemoteTrigger
SupportedFeatureProfilesMaxLength	6
	3
TransactionMessageAttempts	
TransactionMessageRetryInterval	60
UnlockConnectorOnEVSideDisconnect	FALSE
WebSocketPingInterval	30
LocalAuthListEnabled	TRUE
Local Auth List Max Length	100000
Send Local List Max Length	10000
ReserveConnectorZeroSupported	FALSE
	0
MaxChargingProfilesInstalled	50



#### Statement of Approval

Vendor		<b>Date</b> : 2022.11.01	
Name	Kidd Wang	Signature	
Company	Zerova Technologies Taiwan Limited	, , ,	1 0
Department	Products Safety Department	Kidd	Wang
Position	Manager	7(100	
Location	Taoyuan, Taiwan		

Test laboratory		<b>Date</b> : 2022.11.01
Name	Philip YANG	Signature
Company	Korea Smart Grid Association	4
Department	Quality Certification Center	
Position	Senior Researcher	
Location	Seoul, Korea	/