

Certificate Holder: WENZHOU BLUESKY ENERGY

TECHNOLOGY CO.,LTD

Certificate Number: OCA.0016.0926.CS

Product Type: Charging Station

Product Designation: BSEC

OCPP Software Version: V|9b|STD0F

Certification Date: November 4, 2024

This certificate attests that the above mentioned product successfully completed certification testing in conformance with the reference specification OCPP 1.6 (Edition 2 FINAL, 2017-09-28 including Errata v4.0 Release, 2019-10-23). The optional OCPP protocol features that are covered by this certificate can be found in the Abstract of the Test Report that is part 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 this complete test report.

Applied	Performed by / On	Document Evidence
Conformance testing according to the test specification referenced by the test report	DNV Singapore Pte. Ltd. October 23, 2024	PICS_PRJ_10441372

The abstract of test report 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:

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Abstract of the Test Report

Test Report OCPP 1.6 Certification

Test laboratory:	DNV Singapore Pte. Ltd.
Location:	Singapore
Test Report Reference:	PRJ_10441372
Product Designation:	BSEC
Vendor name:	WENZHOU BLUESKY ENERGY TECHNOLOGY CO.,LTD
Device Under Test:	Charging Station
OCPP Software Version	V 9ЫSTDOF

Test Result Summary for the Certified Functionalities

Certification Profile	Test Result	Description
Core	Pass	Basic Charging Station, functionality for booting, authorization, configuration, transactions, remote control.
Firmware Management	Pass	Support for firmware update management and diagnostic log file download.
Local Authorization List Management	Pass	Features to manage a local list in the charging station containing authorization data for whitelisting users.
Smart Charging	Pass	Support for Smart Charging, to control charging.
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.
Reservation	Pass	Support for reservation of a connector of a Charging Station.



Hardware Feature Set

ID	Feature	Supported / Present
HFS-1	Has a detachable cable	No
HFS-2	Has a fixed cable	Yes
HFS-3	Has AC support	Yes
HFS-4	Has DC support	No
HFS-5	Has 1 phase support	Yes
HFS-6	Has 2 phase support	No
HFS-7	Has 3 phase support	Yes
HFS-8	No. Connectors	2
HFS-9	Communication technology	Ethernet, Wi-Fi
HFS-10	RFID readers	One per EVSE

Connector	Current	Phases	Type	Cable Type
1	AC	183	cCCS2	Fixed Cable
2	AC	183	cCCS2	Fixed Cable

Optional Features

Core

ID	Core Features	Supported / Present
C-01	Support for offline authorization of transactions	Yes
C-02	Support for allowing Offline Authorization for Unknown Ids	Yes
C-03	Support for maximizing energy for invalid ids	Yes
C-04	Authorization Cache	Yes
C-05	Support to limit StatusNotifications	Yes
C-06	Authorization status after cable disconnected on EV side	
C-06.1	Support for maintaining authorization when cable disconnected on EV side	No
C-06.2	Support for not maintaining authorization when cable disconnected on EV side	Yes
C-07	Support for local start	Yes
C-08	Support for local stop	Yes



ID	Metervalues	Tested During Certification	Supported According to Vendor
C-09	Supported MeterValue Measurands		
C-09.1	MeterValuesSampledData	Voltage SoC Power.Offered Energy.Active.Import.Register Current.Import Temperature Power.Active.Import	Voltage SOC Power.Offered Energy.Active.Import.Register Current.Import Temperature Power.Active.Import
C-09.2	MeterValuesAlignedData	Voltage SoC Power.Offered Energy.Active.Import.Register Current.Import Temperature Power.Active.Import	Voltage SOC Power.Offered Energy.Active.Import.Register Current.Import Temperature Power.Active.Import

Smart Charging

ID	Certification Profile: Smart Charging	Supported / Present
SC-1	Supported charging rate units	
SC-1.1	A	Yes
SC-1.2	W	Yes

Reservation

ID	Certification Profile: Reservation	Supported / Present
R-1	Support reservations of entire Charging Station	Yes

Firmware Management

ID	Certification Profile: Firmware Management	Supported / Present
F-1	Support for Secure Firmware Updates	False



Additional Questions

ID	Additional Questions for Lab Testing	Supported / Present
AQ-1	Can the last CentralSystemRootCertificate can be removed?	No
AQ-2	Does the Charging Station have a cable lock, which prevents the EV driver to connect the EV and EVSE before authorization?	No
AQ-3	Can the last ChargePointCertificate be removed?	No
AQ-4	Is your Charging Station able to download firmware while there is an ongoing transaction?	No
AQ-5	Does your Charging Station enforce a selection of EVSE prior to authorization?	No
AQ-6	Does your Charging Station support charging an EV using IEC 61851-1?	Yes
AQ-7	Reporting of StopTransaction after power loss	
AQ-7.1	Charge Point configured to report StopTransaction before going down.	No
AQ-7.2	Charge Point configured to report StopTransaction after going down and being back online again.	Yes

Other Relevant Settings

ID	Limit / Setting	Value
ORS-1	GetConfigurationMaxKeys	43
ORS-2	MeterValuesAlignedDataMaxLength	7
ORS-3	MeterValuesSampledDataMaxLength	7
ORS-4	Minimum MeterValueSampleInterval supported	30
ORS-5	Maximum MeterValueSampleInterval supported	3600
ORS-6	Minimum HeartbeatInterval supported	10
ORS-7	Maximum HeartbeatInterval supported	60
ORS-8	StopTransactionMaxMeterValues	99999999
ORS-9	StopTxnAlignedDataMaxLength	1
ORS-10	StopTxnSampledDataMaxLength	1
ORS-11	WebSocketPingInterval	0

ID	Certification Profile: Local Authorization List Management	Value
ORS-12	LocalAuthListMaxLength	100



ID	Certification Profile: Local Authorization List Management	Value
ORS-13	SendLocalListMaxLength	10

ID	Certification Profile: Smart Charging	Value
ORS-14	ChargingProfileMaxStackLevel	2
ORS-15	ChargingScheduleMaxPeriods	86400

ID	Firmware Management Settings	Value
ORS-16	Supported file transfer protocols	FTP



Performance Measurement Result

Name	Max Value	Unit	Description
OCPP response timeout	6	seconds	The timeout used for exchanging OCPP response messages. Messages to the DUT can be handled within this timeout.
OCPP triggered function timeout	60	seconds	The timeout used for when waiting for an OCPP function with its corresponding request message. Messages to the DUT can be handled within this timeout. This value excludes firmware, diagnostics and rebooting
Transaction authorization time by RemoteStartTransaction	60	seconds	The time between the RemoteStartTransaction.req message and the corresponding StartTransaction.req. Only cases where the RemoteStartTransaction immediately results in an authorization followed by a StartTransaction.req are included.
Transaction authorization end time by RemoteStopTransaction	30	seconds	The time between the RemoteStopTransaction.req message and the corresponding StopTransaction.req. Only cases where the RemoteStopTransaction immediately results in an end of the authorization followed by a StopTransaction.req are included.

Name	Min Value	Max Value	Average Value	Unit
OCPP response timeout	0.18	5.78	0.35	seconds
OCPP triggered function timeout	0.31	6.12	0.83	seconds
Transaction authorization time by RemoteStartTransaction	1.27	1.27	1.27	seconds
Transaction authorization end time by RemoteStopTransaction	0.90	0.90	0.90	seconds

Communication technology used during	WiFi
performance measurement:	VVIII



Statement of Approval

Vendor		
Name	Tommy Hu	Date: 2024-11-02
Company	Wenzhou Bluesky Energy Technology Co., Ltd	Signature:
Department	Sales Department	7)
Position	Sales Director	1.74 2.74
Location	NO.379 BINHAI 22ND ROAD, ETDZ, WENZHOU, ZHEJIANG, CHINA	- Mr.

Test Laboratory				
Name	Huang Qilin	Date: 2024-11-04		
Company	DNV Singapore Pte. Ltd.	Signature:		
Department	Energy Systems			
Position	Consultant	47		
Location	Singapore	·		