



Certificate Holder: Autel Digital Power Co., Ltd.
Certificate Number: F01.OCA.0016.1248.CS - update-2026-06-11
Product Type: Charging Station
Product Designation: MaxiCharger Dual Charger (FM44-HH082MB1002)
Firmware Version: PFA0003|1.00.10|1.00.00
Certification Date: June 2, 2026

This certificate attests that the above mentioned product - a representative product for an OCPP product family - successfully completed certification testing in conformance with the reference specification OCPP 1.6 (Edition 2 FINAL, 2017-09-28 including Errata 2025-04) and Security Whitepaper Edition 4 (Improved security for OCPP 1.6-J v1.4, 2026-02-05). 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. May 28, 2026	PICS_PRJ_10487145_Autel_MaxiDual_052026

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:

ONOPH CARON
Chairman

Abstract of the Test Report

Test Report OCPP 1.6 Certification

Test laboratory:	DNV Singapore Pte. Ltd.
Location:	DNV Lab, Singapore, Singapore
Test Report Reference:	PRJ_10487145_Autel_MaxiDual_052026
Test Location	Singapore
Product Designation:	MaxiCharger Dual Charger (FM44-HH082MB1002)
Vendor name:	Autel Digital Power Co., Ltd.
Device Under Test:	Charging Station
Firmware Version:	PFA0003 1.00.10 1.00.00
Config ID:	9731B650-4F9D7E12

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, secure firmware updates and Security Profile 2.
Advanced Security	Pass	Support for TLS with client authentication.
Smart Charging	Pass	Support for Smart Charging, to control charging.

Hardware Feature Set

The Hardware Feature set is the actual set of relevant hardware properties of the product tested, that influence the OCPP messaging behavior. In the table below you can see for each hardware feature relevant for OCPP whether this is applicable for this product.

ID	Feature	Supported / Present
HFS-1	Has a detachable cable	Yes
HFS-2	Has a fixed cable	No
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, Mobile network, WiFi
HFS-10	RFID readers	Single

Connector	Current	Phases	Type	Cable Type
1	AC	1 & 3	sType2	Detachable Cable
2	AC	1 & 3	sType2	Detachable Cable



Optional Features

The OCPP specification contains many implementation options that can be selected by a vendor, often in the form of optional message fields or configuration variables, that can be used to support advanced functions. Whereas the certification profiles determine which OCPP functionality is implemented, the features describe how much of a certain functionality in a profile has been implemented. The tables below indicate per certification profiles, for each available optional feature within this profile, whether this has been implemented in this product and tested for conformance or not.

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	No
C-04	Authorization Cache	Yes
C-05	Support to limit StatusNotifications	No
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
C-10	Unlocking of connector when cable disconnected on EV side	
C-10.1	Support for unlocking connector when cable disconnected on EV side	Yes
C-10.2	Support for not unlocking when cable disconnected on EV side	Yes
C-11	Support for Security Profile 1: Unsecured Transport with Basic Authentication	Yes

ID	Metervalues	Tested During Certification	Supported According to Vendor
C-09	Supported MeterValue Measurands		

ID	Metervalues	Tested During Certification	Supported According to Vendor
C-09.1	MeterValuesSampled Data	Power.Offered Voltage Current.Import Current.Offered Power.Active.Import Energy.Active.Import.Register	Energy.Active.Import.Register Voltage Power.Offered Current.Import Power.Active.Import Current.offered
C-09.2	MeterValuesAligned Data	Power.Offered Voltage Current.Import Current.Offered Power.Active.Import Energy.Active.Import.Register	Energy.Active.Import.Register Voltage Power.Offered Current.Import Power.Active.Import Current.offered

ID	Cipher Suites	Supported / Present
C-12	Supported Cipher Suites	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 TLS_RSA_WITH_AES_128_GCM_SHA256 TLS_RSA_WITH_AES_256_GCM_SHA384

ID	Local Authorization List Management	Supported / Present
LA-0	Support for Local Authorization List Management	Yes

ID	Remote Trigger	Supported / Present
RT-0	Support for Remote Trigger	Yes

ID	Reservations	Supported / Present
R-0	Support for Reservations	Yes
R-1	Support reservations of entire Charging Station	Yes

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

Additional Questions

The table below lists a number of questions that are needed for determining the complete list of conformance test for this product.

ID	Additional Questions for Lab Testing	Answer
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?	Yes
AQ-4	Is your Charging Station able to download firmware while there is an ongoing transaction?	Yes
AQ-5	Does your Charging Station enforce a selection of EVSE prior to authorization?	Yes
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.	Yes
AQ-7.2	Charge Point configured to report StopTransaction after going down and being back online again.	No
AQ-9	Does your Charging Station have at least one connector with an mechanized locking mechanism on Charging Station side?	Yes
AQ-11	Does your Charging Station support an authorization method, that does not rely on the communication between EV and Charging Station?	Yes

Other Relevant Settings

The table below lists a number of settings that are needed for configuring the test setup for the conformance test for this product.

ID	Limit / Setting	Value
ORS-1	GetConfigurationMaxKeys	136
ORS-4	Minimum MeterValueSampleInterval supported	1
ORS-5	Maximum MeterValueSampleInterval supported	3600
ORS-6	Minimum HeartbeatInterval supported	1
ORS-7	Maximum HeartbeatInterval supported	7200
ORS-11	WebSocketPingInterval	30
ORS-12	LocalAuthListMaxLength	100
ORS-13	SendLocalListMaxLength	100

ID	Certification Profile: Smart Charging	Value
ORS-14	ChargingProfileMaxStackLevel	40
ORS-15	ChargingScheduleMaxPeriods	48
ORS-19	MaxChargingProfilesInstalled	40

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

Additional Network Communication Ports

Description	Protocol	Network Port	Direction	Secured
Remote management and maintenance	Autel Charger Maintenance Protocol	443	Outbound	Yes
Connect to Energy Management System	Modbus Over TCP	502	Inbound	Yes

Performance Measurement Result

The tables below shows the list of key performance indicators that are measured during the conformance test. The first table indicates the values that the vendor indicates that are valid maximum values for this product. The second table lists the actual performance measurements during the tests performed in a controlled environment.

Name	Max Value	Unit	Description
OCPP response timeout	15	seconds	The timeout used for exchanging OCPP response messages. Messages to the DUT can be handled within this timeout.
OCPP triggered function timeout	10	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	10	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	10	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	0.19	12.46	0.38	seconds
OCPP triggered function timeout	0.47	1.04	0.76	seconds
Transaction authorization time by RemoteStartTransaction	4.71	4.71	4.71	seconds
Transaction authorization end time by RemoteStopTransaction	4.16	6.08	4.57	seconds

Communication technology used during performance measurement	Ethernet
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Statement of Approval

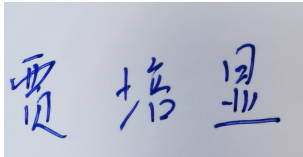
Vendor		
Name	Jia Peixian	Date: 2026-06-02
Company	Autel Digital Power Co., Ltd.	Signature:
Department	Controller Development	
Position	Software Engineer	
Location	Shenzhen, China	




Test Laboratory		
Name	Huang Qilin	Date: 2026-06-02
Company	DNV Singapore Pte. Ltd.	Signature:
Department	Energy Systems	
Position	Consultant	
Location	DNV Lab, Singapore, Singapore	



OCTT Version	Release_2026-04
OCTT Instance ID	341870e80ca16f1a69fd7246f502e765
Firmware image hash	a2275112f5e7484b306da9695e7cd67289e5fc8a7727a5402704fa56f49081b3

Product Family Members Overview

The table below lists the OCPP product family members for the Representative Product MaxiCharger Dual Charger (FM44-HH082MB1002) with Config ID 9731B650-4F9D7E12. For each of these individual product family members a Vendor Declaration of Conformance is attached to this document, attesting that the product family member has been successfully tested for conformance by the vendor using the same firmware as the representative product.

Vendor		
Name	Jia Peixian	Date: 2026-06-11
Company	Autel Digital Power Co., Ltd.	Signature:
Department	Controller Development	
Position	Software Engineer	
Location	Shenzhen, China	

Product Designation	Product Description	Photo
MaxiCharger Dual Charger (FS44-HH082MB1002) Config ID: 9731B650-FADFID12	MaxiCharger Dual Charger, French floor standing version, Schuko socket, Type 2 socket with shutter	
MaxiCharger Dual Charger (KM44-SS082MB1002) Config ID: 9731B650-459DBE12	MaxiCharger Dual Charger, British standard wall mounted version, Type 2 socket	
MaxiCharger Dual Charger (KS44-SS082MB1002) Config ID: 9731B650-7ED2A512	MaxiCharger Dual Charger, British standard floor standing version, Type 2 socket	

Product Designation	Product Description	Photo
MaxiCharger Dual Charger (EM44-SS082EB1002) Config ID: 9731B650-8767A392	MaxiCharger Dual Charger, European standard wall mounted version, Type 2 socket	
MaxiCharger Dual Charger (ES44-SS082EB1002) Config ID: 9731B650-AABEE812	MaxiCharger Dual Charger, European standard floor standing version, Type 2 socket	

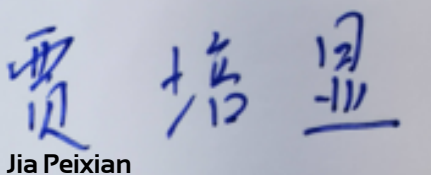
Vendor Declaration of Conformance

Product Type: Charging Station
Product Designation: MaxiCharger Dual Charger (FS44-HH082MB1002)
Firmware Version: PFA0003|1.00.10|1.00.00
Test Date: June 11, 2026
Config ID: 9731B650-FADF1D12

The Vendor Autel Digital Power Co., Ltd. states that the above-mentioned product and software version combination successfully completed testing in conformance with the reference specification OCPP 1.6 (Edition 2 FINAL, 2017-09-28 including Errata 2025-04) and Security Whitepaper Edition 4 (Improved security for OCPP 1.6-J v1.4, 2026-02-05). The OCPP profiles and optional protocol features that were tested can be found in this Test Report.

This test report is only applicable to the product designation running the specified software version described above. On behalf of Autel Digital Power Co., Ltd. the undersigned declares that the OCPP conformance test was performed under his/her responsibility and that the test results were obtained by testing the above-mentioned product and software version combination using the OCPP Compliance Test Tool (OCTT) in a single uninterrupted test run without any manipulation. Note: it has not been independently verified that above-mentioned product was tested.

For Autel Digital Power Co., Ltd. on June 11, 2026:



Jia Peixian

Software Engineer, Controller Development, Shenzhen, China

Test Result Summary for the Tested Functionalities

Certification Profile	Test Result	Description
Core	Pass	Basic Charging Station, functionality for booting, authorization, configuration, transactions, remote control, secure firmware updates and Security Profile 2.
Advanced Security	Pass	Support for TLS with client authentication.
Smart Charging	Pass	Support for Smart Charging, to control charging.

Disclaimer: For the preparation of this Vendor Declaration, the Open Charge Alliance test tool has been used by the Vendor. The Open Charge Alliance has not been involved in the testing and or test results. Any liability of the Open Charge Alliance in respect of the tests and test results is expressly excluded. This test report 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 resulting from reliance on the results of this report.

Tested Firmware Image: a2275112f5e7484b306da9695e7cd67289e5fc8a7727a5402704fa56ff49081b3 - OCTT Instance ID: 12c8e4542ebd91fc6f0a7e660e6766b0

Hardware Feature Set

The Hardware Feature set is the actual set of relevant hardware properties of the product tested, that influence the OCPP messaging behavior. In the table below you can see for each hardware feature relevant for OCPP whether this is applicable for this product.

ID	Feature	Supported / Present
HFS-1	Has a detachable cable	Yes
HFS-2	Has a fixed cable	No
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, Mobile network, WiFi
HFS-10	RFID readers	Single

Connector	Current	Phases	Type	Cable Type
1	AC	1 & 3	sType2	Detachable Cable
2	AC	1 & 3	sType2	Detachable Cable



Optional Features

The OCPP specification contains many implementation options that can be selected by a vendor, often in the form of optional message fields or configuration variables, that can be used to support advanced functions. Whereas the certification profiles determine which OCPP functionality is implemented, the features describe how much of a certain functionality in a profile has been implemented. The tables below indicate per certification profiles, for each available optional feature within this profile, whether this has been implemented in this product and tested for conformance or not.

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	No
C-04	Authorization Cache	Yes
C-05	Support to limit StatusNotifications	No
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
C-10	Unlocking of connector when cable disconnected on EV side	
C-10.1	Support for unlocking connector when cable disconnected on EV side	Yes
C-10.2	Support for not unlocking when cable disconnected on EV side	Yes
C-11	Support for Security Profile 1: Unsecured Transport with Basic Authentication	Yes

ID	Metervalues	Tested
C-09	Supported MeterValue Measurands	
C-09.1	MeterValuesSampled Data	Voltage Power.Offered Power.Active.Import Current.Offered Current.Import Energy.Active.Import.Register
C-09.2	MeterValuesAligned Data	Voltage Power.Offered Power.Active.Import Current.Offered Current.Import Energy.Active.Import.Register

ID	Cipher Suites	Supported / Present
C-12	Supported Cipher Suites	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 TLS_RSA_WITH_AES_128_GCM_SHA256 TLS_RSA_WITH_AES_256_GCM_SHA384

ID	Local Authorization List Management	Supported / Present
LA-0	Support for Local Authorization List Management	Yes

ID	Remote Trigger	Supported / Present
RT-0	Support for Remote Trigger	Yes

ID	Reservations	Supported / Present
R-0	Support for Reservations	Yes
R-1	Support reservations of entire Charging Station	Yes

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

Additional Questions

The table below lists a number of questions that are needed for determining the complete list of conformance test for this product.

ID	Additional Questions for Lab Testing	Answer
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?	Yes
AQ-4	Is your Charging Station able to download firmware while there is an ongoing transaction?	Yes
AQ-5	Does your Charging Station enforce a selection of EVSE prior to authorization?	Yes
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.	Yes

Tested Firmware Image: a2275112f5e7484b306da9695e7cd67289e5fc8a7727a5402704fa56f49081b3 - OCTT Instance ID: 12c8e4542ebd91fc6f0a7e660e6766b0

ID	Additional Questions for Lab Testing	Answer
AQ-7.2	Charge Point configured to report StopTransaction after going down and being back online again.	No
AQ-9	Does your Charging Station have at least one connector with a mechanized locking mechanism on Charging Station side?	Yes
AQ-11	Does your Charging Station support an authorization method, that does not rely on the communication between EV and Charging Station?	Yes

Other Relevant Settings

The table below lists a number of settings that are needed for configuring the test setup for the conformance test for this product.

ID	Limit / Setting	Value
ORS-1	GetConfigurationMaxKeys	136
ORS-4	Minimum MeterValueSampleInterval supported	1
ORS-5	Maximum MeterValueSampleInterval supported	3600
ORS-6	Minimum HeartbeatInterval supported	1
ORS-7	Maximum HeartbeatInterval supported	7200
ORS-11	WebSocketPingInterval	30
ORS-12	LocalAuthListMaxLength	100
ORS-13	SendLocalListMaxLength	100

ID	Certification Profile: Smart Charging	Value
ORS-14	ChargingProfileMaxStackLevel	40
ORS-15	ChargingScheduleMaxPeriods	48
ORS-19	MaxChargingProfilesInstalled	40

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

Test Cases

The following list contains all Test cases that are required for a full conformance test for a product that is defined as in the configuration in this document. This is the complete list of test cases for this configuration, each of these test cases has been passed using the Test System defined above. Please note that test cases that are not applicable for this configuration are left out of this list, so this is a subset of the test cases that are listed and described in the Test Case Document and Test Procedure & Test Plan document.

Testcase	Certification Profile	Name	Result
TC_001_CS	Core	Cold Boot Charge Point	PASS
TC_002_CS	Core	Cold Boot Charge Point - Pending	PASS
TC_003_CS	Core	Regular Charging Session - Plugin First	PASS
TC_004_1_CS	Core	Regular Charging Session Identification First	PASS
TC_004_2_CS	Core	Regular Charging Session Identification First - ConnectionTimeOut	PASS
TC_068_CS	Core	Stop transaction - IdTag in StopTransaction matches IdTag in StartTransaction	PASS
TC_069_CS	Core	Stop transaction - ParentIdTag in StopTransaction matches ParentIdTag in StartTransaction	PASS
TC_005_1_CS	Core	EV Side Disconnected - StopTransactionOnEVSideDisconnect = true - UnlockConnectorOnEVSideDisconnect = true	PASS
TC_005_2_CS	Core	EV Side Disconnected - StopTransactionOnEVSideDisconnect = true - UnlockConnectorOnEVSideDisconnect = false	PASS
TC_007_1_CS	Core	Regular Start Charging Session Cached Id	PASS
TC_061_1_CS	Core	Clear Authorization Data in Authorization Cache - Local	PASS
TC_010_CS	Core	Remote Start Charging Session Cable Plugged in First	PASS
TC_011_1_CS	Core	Remote Start Charging Session Remote Start First	PASS
TC_011_2_CS	Core	Remote Start Charging Session Time Out	PASS
TC_012_CS	Core	Remote Stop Charging Session	PASS
TC_013_CS	Core	Hard Reset Without transaction	PASS
TC_014_CS	Core	Soft Reset Without Transaction	PASS
TC_015_CS	Core	Hard Reset With Transaction	PASS
TC_016_CS	Core	Soft Reset With Transaction	PASS
TC_017_1_CS	Core	Unlock connector - no charging session running	PASS
TC_018_1_CS	Core	Unlock Connector - With Charging Session	PASS
TC_019_CS	Core	Retrieve configuration	PASS
TC_021_CS	Core	Change/set Configuration	PASS
TC_070_CS	Core	Sampled Meter Values	PASS
TC_071_CS	Core	Clock-aligned Meter Values	PASS

Tested Firmware Image: a2275112f5e7484b306da9695e7cd67289e5fc8a7727a5402704fa56f49081b3 - OCTT Instance ID: 12c8e4542ebd91fc6f0a7e660e6766b0

Testcase	Certification Profile	Name	Result
TC_023_4_CS	Core	Start local Charging Session Authorize invalid	PASS
TC_026_CS	Core	Remote Start Charging Session Rejected	PASS
TC_028_CS	Core	Remote Stop Transaction Rejected	PASS
TC_031_CS	Core	Unlock Connector Unknown Connector	PASS
TC_032_1_CS	Core	Power failure boot charging point - configured to stop transaction before going down	PASS
TC_034_CS	Core	Power Failure with Unavailable Status	PASS
TC_036_CS	Core	Connection Loss During Transaction	PASS
TC_037_1_CS	Core	Offline Start Transaction - Valid IdTag	PASS
TC_037_2_CS	Core	Offline Start Transaction - Invalid IdTag - StopTransactionOnInvalidId = false	PASS
TC_037_3_CS	Core	Offline Start Transaction - Invalid IdTag - StopTransactionOnInvalidId = true	PASS
TC_038_CS	Core	Offline Stop Transaction	PASS
TC_039_CS	Core	Offline Transaction	PASS
TC_040_1_CS	Core	Configuration key - NotSupported	PASS
TC_040_2_CS	Core	Configuratioin key - Invalid value	PASS
TC_042_2_CS	Core	Get Local List Version	PASS
TC_043_CS	Core	Send Local Authorization List	PASS
TC_043_2_CS	Core	Send Local Authorization List - VersionMismatch	PASS
TC_008_1_CS	Core	Regular Start Charging Session Id in Local Authorization List	PASS
TC_045_1_CS	Core	Get Diagnostics	PASS
TC_045_2_CS	Core	Get Diagnostics - Upload Failed	PASS
TC_073_CS	Core	Update Charge Point Password for HTTP Basic Authentication	PASS
TC_075_1_CS	Core	Install a certificate on the Charge Point - ManufacturerRootCertificate	PASS
TC_075_2_CS	Core	Install a certificate on the Charge Point - CentralSystemRootCertificate	PASS
TC_076_CS	Core	Delete a specific certificate from the Charge Point	PASS
TC_078_CS	Core	Invalid CentralSystemCertificate Security Event	PASS
TC_079_CS	Core	Get Security Log	PASS
TC_080_CS	Core	Secure Firmware Update	PASS
TC_081_CS	Core	Secure Firmware Update - Invalid Signature	PASS
TC_083_CS	Core	Upgrade security profile	PASS
TC_084_CS	Core	Downgrade security profile - Rejected	PASS
TC_085_CS	Core	Basic Authentication - Valid username/password combination	PASS
TC_086_CS	Core	TLS - server-side certificate - Valid certificate	PASS
TC_046_1_CS	Core	Reservation of a Connector - Local start transaction	PASS

Tested Firmware Image: a2275112f5e7484b306da9695e7cd67289e5fc8a7727a5402704fa56ff49081b3 - OCTT Instance ID: 12c8e4542ebd91fc6f0a7e660e6766b0

Testcase	Certification Profile	Name	Result
TC_046_2_CS	Core	Reservation of a Connector - Remote start transaction	PASS
TC_047_CS	Core	Reservation of a Connector - Expire	PASS
TC_048_2_CS	Core	Reservation of a Connector - Occupied	PASS
TC_048_3_CS	Core	Reservation of a Connector - Unavailable	PASS
TC_049_CS	Core	Reservation of a Charge Point - Transaction	PASS
TC_050_2_CS	Core	Reservation of a Charge Point - Occupied	PASS
TC_050_3_CS	Core	Reservation of a Charge Point - Unavailable	PASS
TC_051_CS	Core	Cancel Reservation	PASS
TC_052_CS	Core	Cancel Reservation - Rejected	PASS
TC_053_1_CS	Core	Use a reserved Connector with parentIdTag - Local	PASS
TC_062_CS	Core	Data Transfer to a Charge Point	PASS
TC_054_CS	Core	Trigger Message	PASS
TC_055_CS	Core	Trigger Message - Rejected	PASS
TC_056_CS	Smart Charging	Central Smart Charging - TxDefaultProfile	PASS
TC_057_CS	Smart Charging	Central Smart Charging - TxProfile	PASS
TC_058_1_CS	Smart Charging	Central Smart Charging - No ongoing transaction	PASS
TC_058_2_CS	Smart Charging	Central Smart Charging - Wrong transactionId	PASS
TC_082_CS	Smart Charging	Central Smart Charging - TxDefaultProfile - with ongoing transaction	PASS
TC_066_CS	Smart Charging	Get Composite Schedule	PASS
TC_067_CS	Smart Charging	Clear Charging Profile	PASS
TC_072_CS	Smart Charging	Stacking Charging Profiles	PASS
TC_059_CS	Smart Charging	Remote Start Transaction with Charging Profile	PASS
TC_060_CS	Smart Charging	Remote Start Transaction with Charging Profile - Rejected	PASS
TC_074_CS	Advanced Security	Update Charge Point Certificate by request of Central System	PASS
TC_077_CS	Advanced Security	Invalid ChargePointCertificate Security Event	PASS
TC_087_CS	Advanced Security	TLS - Client-side certificate - valid certificate	PASS

Tested Firmware Image: a2275112f5e7484b306da9695e7cd67289e5fc8a7727a5402704f9d56f49081b3 - OCTT Instance ID: 12c8e4542ebd91fc6f0a7e660e6766b0

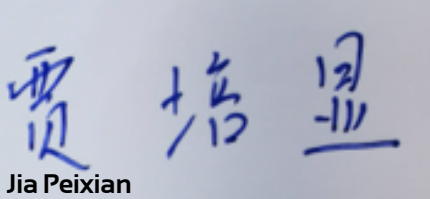
Vendor Declaration of Conformance

Product Type: Charging Station
Product Designation: MaxiCharger Dual Charger (KM44-SS082MB1002)
Firmware Version: PFA0003|1.00.10|1.00.00
Test Date: May 30, 2026
Config ID: 9731B650-459DBE12

The Vendor Autel Digital Power Co., Ltd. states that the above-mentioned product and software version combination successfully completed testing in conformance with the reference specification OCPP 1.6 (Edition 2 FINAL, 2017-09-28 including Errata 2025-04) and Security Whitepaper Edition 4 (Improved security for OCPP 1.6-J v1.4, 2026-02-05). The OCPP profiles and optional protocol features that were tested can be found in this Test Report.

This test report is only applicable to the product designation running the specified software version described above. On behalf of Autel Digital Power Co., Ltd. the undersigned declares that the OCPP conformance test was performed under his/her responsibility and that the test results were obtained by testing the above-mentioned product and software version combination using the OCPP Compliance Test Tool (OCTT) in a single uninterrupted test run without any manipulation. Note: it has not been independently verified that above-mentioned product was tested.

For Autel Digital Power Co., Ltd. on May 30, 2026:



Jia Peixian

Software Engineer, Controller Development, Shenzhen, China

Test Result Summary for the Tested Functionalities

Certification Profile	Test Result	Description
Core	Pass	Basic Charging Station, functionality for booting, authorization, configuration, transactions, remote control, secure firmware updates and Security Profile 2.
Advanced Security	Pass	Support for TLS with client authentication.
Smart Charging	Pass	Support for Smart Charging, to control charging.

Disclaimer: For the preparation of this Vendor Declaration, the Open Charge Alliance test tool has been used by the Vendor. The Open Charge Alliance has not been involved in the testing and or test results. Any liability of the Open Charge Alliance in respect of the tests and test results is expressly excluded. This test report 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 resulting from reliance on the results of this report.

Hardware Feature Set

The Hardware Feature set is the actual set of relevant hardware properties of the product tested, that influence the OCPP messaging behavior. In the table below you can see for each hardware feature relevant for OCPP whether this is applicable for this product.

ID	Feature	Supported / Present
HFS-1	Has a detachable cable	Yes
HFS-2	Has a fixed cable	No
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, Mobile network, WiFi
HFS-10	RFID readers	Single

Connector	Current	Phases	Type	Cable Type
1	AC	1 & 3	sType2	Detachable Cable
2	AC	1 & 3	sType2	Detachable Cable



Tested Firmware Image: a2275112f5e7484b306da9695e7cd67289e5fc8a7727a5402704fa56ff49081b3 - OCTT Instance ID: 12c8e4542ebd91fc6f0a7e660e6766b0

Optional Features

The OCPP specification contains many implementation options that can be selected by a vendor, often in the form of optional message fields or configuration variables, that can be used to support advanced functions. Whereas the certification profiles determine which OCPP functionality is implemented, the features describe how much of a certain functionality in a profile has been implemented. The tables below indicate per certification profiles, for each available optional feature within this profile, whether this has been implemented in this product and tested for conformance or not.

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	No
C-04	Authorization Cache	Yes
C-05	Support to limit StatusNotifications	No
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
C-10	Unlocking of connector when cable disconnected on EV side	
C-10.1	Support for unlocking connector when cable disconnected on EV side	Yes
C-10.2	Support for not unlocking when cable disconnected on EV side	Yes
C-11	Support for Security Profile 1: Unsecured Transport with Basic Authentication	Yes

ID	Metervalues	Tested
C-09	Supported MeterValue Measurands	
C-09.1	MeterValuesSampled Data	Voltage Current.Import Energy.Active.Import.Register Current.Offered Power.Offered Power.Active.Import
C-09.2	MeterValuesAligned Data	Voltage Current.Import Energy.Active.Import.Register Current.Offered Power.Offered Power.Active.Import

ID	Cipher Suites	Supported / Present
C-12	Supported Cipher Suites	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 TLS_RSA_WITH_AES_128_GCM_SHA256 TLS_RSA_WITH_AES_256_GCM_SHA384

ID	Local Authorization List Management	Supported / Present
LA-0	Support for Local Authorization List Management	Yes

ID	Remote Trigger	Supported / Present
RT-0	Support for Remote Trigger	Yes

ID	Reservations	Supported / Present
R-0	Support for Reservations	Yes
R-1	Support reservations of entire Charging Station	Yes

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

Additional Questions

The table below lists a number of questions that are needed for determining the complete list of conformance test for this product.

ID	Additional Questions for Lab Testing	Answer
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?	Yes
AQ-4	Is your Charging Station able to download firmware while there is an ongoing transaction?	Yes
AQ-5	Does your Charging Station enforce a selection of EVSE prior to authorization?	Yes
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.	Yes

ID	Additional Questions for Lab Testing	Answer
AQ-7.2	Charge Point configured to report StopTransaction after going down and being back online again.	No
AQ-9	Does your Charging Station have at least one connector with a mechanized locking mechanism on Charging Station side?	Yes
AQ-11	Does your Charging Station support an authorization method, that does not rely on the communication between EV and Charging Station?	Yes

Other Relevant Settings

The table below lists a number of settings that are needed for configuring the test setup for the conformance test for this product.

ID	Limit / Setting	Value
ORS-1	GetConfigurationMaxKeys	136
ORS-4	Minimum MeterValueSampleInterval supported	1
ORS-5	Maximum MeterValueSampleInterval supported	3600
ORS-6	Minimum HeartbeatInterval supported	1
ORS-7	Maximum HeartbeatInterval supported	7200
ORS-11	WebSocketPingInterval	30
ORS-12	LocalAuthListMaxLength	100
ORS-13	SendLocalListMaxLength	100

ID	Certification Profile: Smart Charging	Value
ORS-14	ChargingProfileMaxStackLevel	40
ORS-15	ChargingScheduleMaxPeriods	48
ORS-19	MaxChargingProfilesInstalled	40

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

Test Cases

The following list contains all Test cases that are required for a full conformance test for a product that is defined as in the configuration in this document. This is the complete list of test cases for this configuration, each of these test cases has been passed using the Test System defined above. Please note that test cases that are not applicable for this configuration are left out of this list, so this is a subset of the test cases that are listed and described in the Test Case Document and Test Procedure & Test Plan document.

Testcase	Certification Profile	Name	Result
TC_001_CS	Core	Cold Boot Charge Point	PASS
TC_002_CS	Core	Cold Boot Charge Point - Pending	PASS
TC_003_CS	Core	Regular Charging Session - Plugin First	PASS
TC_004_1_CS	Core	Regular Charging Session Identification First	PASS
TC_004_2_CS	Core	Regular Charging Session Identification First - ConnectionTimeOut	PASS
TC_068_CS	Core	Stop transaction - IdTag in StopTransaction matches IdTag in StartTransaction	PASS
TC_069_CS	Core	Stop transaction - ParentIdTag in StopTransaction matches ParentIdTag in StartTransaction	PASS
TC_005_1_CS	Core	EV Side Disconnected - StopTransactionOnEVSideDisconnect = true - UnlockConnectorOnEVSideDisconnect = true	PASS
TC_005_2_CS	Core	EV Side Disconnected - StopTransactionOnEVSideDisconnect = true - UnlockConnectorOnEVSideDisconnect = false	PASS
TC_007_1_CS	Core	Regular Start Charging Session Cached Id	PASS
TC_061_1_CS	Core	Clear Authorization Data in Authorization Cache - Local	PASS
TC_010_CS	Core	Remote Start Charging Session Cable Plugged in First	PASS
TC_011_1_CS	Core	Remote Start Charging Session Remote Start First	PASS
TC_011_2_CS	Core	Remote Start Charging Session Time Out	PASS
TC_012_CS	Core	Remote Stop Charging Session	PASS
TC_013_CS	Core	Hard Reset Without transaction	PASS
TC_014_CS	Core	Soft Reset Without Transaction	PASS
TC_015_CS	Core	Hard Reset With Transaction	PASS
TC_016_CS	Core	Soft Reset With Transaction	PASS
TC_017_1_CS	Core	Unlock connector - no charging session running	PASS
TC_018_1_CS	Core	Unlock Connector - With Charging Session	PASS
TC_019_CS	Core	Retrieve configuration	PASS
TC_021_CS	Core	Change/set Configuration	PASS
TC_070_CS	Core	Sampled Meter Values	PASS
TC_071_CS	Core	Clock-aligned Meter Values	PASS

Tested Firmware Image: a2275112f5e7484b306da9695e7cd67289e5fc8a7727a5402704fa56f49081b3 - OCTT Instance ID: 12c8e4542ebd91fc6f0a7e660e6766b0

Testcase	Certification Profile	Name	Result
TC_023_4_CS	Core	Start local Charging Session Authorize invalid	PASS
TC_026_CS	Core	Remote Start Charging Session Rejected	PASS
TC_028_CS	Core	Remote Stop Transaction Rejected	PASS
TC_031_CS	Core	Unlock Connector Unknown Connector	PASS
TC_032_1_CS	Core	Power failure boot charging point - configured to stop transaction before going down	PASS
TC_034_CS	Core	Power Failure with Unavailable Status	PASS
TC_036_CS	Core	Connection Loss During Transaction	PASS
TC_037_1_CS	Core	Offline Start Transaction - Valid IdTag	PASS
TC_037_2_CS	Core	Offline Start Transaction - Invalid IdTag - StopTransactionOnInvalidId = false	PASS
TC_037_3_CS	Core	Offline Start Transaction - Invalid IdTag - StopTransactionOnInvalidId = true	PASS
TC_038_CS	Core	Offline Stop Transaction	PASS
TC_039_CS	Core	Offline Transaction	PASS
TC_040_1_CS	Core	Configuration key - NotSupported	PASS
TC_040_2_CS	Core	Configuratioin key - Invalid value	PASS
TC_042_2_CS	Core	Get Local List Version	PASS
TC_043_CS	Core	Send Local Authorization List	PASS
TC_043_2_CS	Core	Send Local Authorization List - VersionMismatch	PASS
TC_008_1_CS	Core	Regular Start Charging Session Id in Local Authorization List	PASS
TC_045_1_CS	Core	Get Diagnostics	PASS
TC_045_2_CS	Core	Get Diagnostics - Upload Failed	PASS
TC_073_CS	Core	Update Charge Point Password for HTTP Basic Authentication	PASS
TC_075_1_CS	Core	Install a certificate on the Charge Point - ManufacturerRootCertificate	PASS
TC_075_2_CS	Core	Install a certificate on the Charge Point - CentralSystemRootCertificate	PASS
TC_076_CS	Core	Delete a specific certificate from the Charge Point	PASS
TC_078_CS	Core	Invalid CentralSystemCertificate Security Event	PASS
TC_079_CS	Core	Get Security Log	PASS
TC_080_CS	Core	Secure Firmware Update	PASS
TC_081_CS	Core	Secure Firmware Update - Invalid Signature	PASS
TC_083_CS	Core	Upgrade security profile	PASS
TC_084_CS	Core	Downgrade security profile - Rejected	PASS
TC_085_CS	Core	Basic Authentication - Valid username/password combination	PASS
TC_086_CS	Core	TLS - server-side certificate - Valid certificate	PASS
TC_046_1_CS	Core	Reservation of a Connector - Local start transaction	PASS

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Testcase	Certification Profile	Name	Result
TC_046_2_CS	Core	Reservation of a Connector - Remote start transaction	PASS
TC_047_CS	Core	Reservation of a Connector - Expire	PASS
TC_048_2_CS	Core	Reservation of a Connector - Occupied	PASS
TC_048_3_CS	Core	Reservation of a Connector - Unavailable	PASS
TC_049_CS	Core	Reservation of a Charge Point - Transaction	PASS
TC_050_2_CS	Core	Reservation of a Charge Point - Occupied	PASS
TC_050_3_CS	Core	Reservation of a Charge Point - Unavailable	PASS
TC_051_CS	Core	Cancel Reservation	PASS
TC_052_CS	Core	Cancel Reservation - Rejected	PASS
TC_053_1_CS	Core	Use a reserved Connector with parentIdTag - Local	PASS
TC_062_CS	Core	Data Transfer to a Charge Point	PASS
TC_054_CS	Core	Trigger Message	PASS
TC_055_CS	Core	Trigger Message - Rejected	PASS
TC_056_CS	Smart Charging	Central Smart Charging - TxDefaultProfile	PASS
TC_057_CS	Smart Charging	Central Smart Charging - TxProfile	PASS
TC_058_1_CS	Smart Charging	Central Smart Charging - No ongoing transaction	PASS
TC_058_2_CS	Smart Charging	Central Smart Charging - Wrong transactionId	PASS
TC_082_CS	Smart Charging	Central Smart Charging - TxDefaultProfile - with ongoing transaction	PASS
TC_066_CS	Smart Charging	Get Composite Schedule	PASS
TC_067_CS	Smart Charging	Clear Charging Profile	PASS
TC_072_CS	Smart Charging	Stacking Charging Profiles	PASS
TC_059_CS	Smart Charging	Remote Start Transaction with Charging Profile	PASS
TC_060_CS	Smart Charging	Remote Start Transaction with Charging Profile - Rejected	PASS
TC_074_CS	Advanced Security	Update Charge Point Certificate by request of Central System	PASS
TC_077_CS	Advanced Security	Invalid ChargePointCertificate Security Event	PASS
TC_087_CS	Advanced Security	TLS - Client-side certificate - valid certificate	PASS

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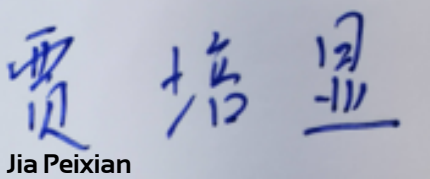
Vendor Declaration of Conformance

Product Type: Charging Station
Product Designation: MaxiCharger Dual Charger (KS44-SS082MB1002)
Firmware Version: PFA0003|1.00.10|1.00.00
Test Date: June 10, 2026
Config ID: 9731B650-7ED2A512

The Vendor Autel Digital Power Co., Ltd. states that the above-mentioned product and software version combination successfully completed testing in conformance with the reference specification OCPP 1.6 (Edition 2 FINAL, 2017-09-28 including Errata 2025-04) and Security Whitepaper Edition 4 (Improved security for OCPP 1.6-J v1.4, 2026-02-05). The OCPP profiles and optional protocol features that were tested can be found in this Test Report.

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For Autel Digital Power Co., Ltd. on June 10, 2026:



Jia Peixian

Software Engineer, Controller Development, Shenzhen, China

Test Result Summary for the Tested Functionalities

Certification Profile	Test Result	Description
Core	Pass	Basic Charging Station, functionality for booting, authorization, configuration, transactions, remote control, secure firmware updates and Security Profile 2.
Advanced Security	Pass	Support for TLS with client authentication.
Smart Charging	Pass	Support for Smart Charging, to control charging.

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Hardware Feature Set

The Hardware Feature set is the actual set of relevant hardware properties of the product tested, that influence the OCPP messaging behavior. In the table below you can see for each hardware feature relevant for OCPP whether this is applicable for this product.

ID	Feature	Supported / Present
HFS-1	Has a detachable cable	Yes
HFS-2	Has a fixed cable	No
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, Mobile network, WiFi
HFS-10	RFID readers	Single

Connector	Current	Phases	Type	Cable Type
1	AC	1 & 3	sType2	Detachable Cable
2	AC	1 & 3	sType2	Detachable Cable



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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	No
C-04	Authorization Cache	Yes
C-05	Support to limit StatusNotifications	No
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
C-10	Unlocking of connector when cable disconnected on EV side	
C-10.1	Support for unlocking connector when cable disconnected on EV side	Yes
C-10.2	Support for not unlocking when cable disconnected on EV side	Yes
C-11	Support for Security Profile 1: Unsecured Transport with Basic Authentication	Yes

ID	Metervalues	Tested
C-09	Supported MeterValue Measurands	
C-09.1	MeterValuesSampled Data	Energy.Active.Import.Register Current.Import Voltage Power.Active.Import Current.Offered Power.Offered
C-09.2	MeterValuesAligned Data	Energy.Active.Import.Register Current.Import Voltage Power.Active.Import Current.Offered Power.Offered

ID	Cipher Suites	Supported / Present
C-12	Supported Cipher Suites	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 TLS_RSA_WITH_AES_128_GCM_SHA256 TLS_RSA_WITH_AES_256_GCM_SHA384

ID	Local Authorization List Management	Supported / Present
LA-0	Support for Local Authorization List Management	Yes

ID	Remote Trigger	Supported / Present
RT-0	Support for Remote Trigger	Yes

ID	Reservations	Supported / Present
R-0	Support for Reservations	Yes
R-1	Support reservations of entire Charging Station	Yes

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

Additional Questions

The table below lists a number of questions that are needed for determining the complete list of conformance test for this product.

ID	Additional Questions for Lab Testing	Answer
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?	Yes
AQ-4	Is your Charging Station able to download firmware while there is an ongoing transaction?	Yes
AQ-5	Does your Charging Station enforce a selection of EVSE prior to authorization?	Yes
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.	Yes

ID	Additional Questions for Lab Testing	Answer
AQ-7.2	Charge Point configured to report StopTransaction after going down and being back online again.	No
AQ-9	Does your Charging Station have at least one connector with a mechanized locking mechanism on Charging Station side?	Yes
AQ-11	Does your Charging Station support an authorization method, that does not rely on the communication between EV and Charging Station?	Yes

Other Relevant Settings

The table below lists a number of settings that are needed for configuring the test setup for the conformance test for this product.

ID	Limit / Setting	Value
ORS-1	GetConfigurationMaxKeys	136
ORS-4	Minimum MeterValueSampleInterval supported	1
ORS-5	Maximum MeterValueSampleInterval supported	3600
ORS-6	Minimum HeartbeatInterval supported	1
ORS-7	Maximum HeartbeatInterval supported	7200
ORS-11	WebSocketPingInterval	30
ORS-12	LocalAuthListMaxLength	100
ORS-13	SendLocalListMaxLength	100

ID	Certification Profile: Smart Charging	Value
ORS-14	ChargingProfileMaxStackLevel	40
ORS-15	ChargingScheduleMaxPeriods	48
ORS-19	MaxChargingProfilesInstalled	40

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

Test Cases

The following list contains all Test cases that are required for a full conformance test for a product that is defined as in the configuration in this document. This is the complete list of test cases for this configuration, each of these test cases has been passed using the Test System defined above. Please note that test cases that are not applicable for this configuration are left out of this list, so this is a subset of the test cases that are listed and described in the Test Case Document and Test Procedure & Test Plan document.

Testcase	Certification Profile	Name	Result
TC_001_CS	Core	Cold Boot Charge Point	PASS
TC_002_CS	Core	Cold Boot Charge Point - Pending	PASS
TC_003_CS	Core	Regular Charging Session - Plugin First	PASS
TC_004_1_CS	Core	Regular Charging Session Identification First	PASS
TC_004_2_CS	Core	Regular Charging Session Identification First - ConnectionTimeOut	PASS
TC_068_CS	Core	Stop transaction - IdTag in StopTransaction matches IdTag in StartTransaction	PASS
TC_069_CS	Core	Stop transaction - ParentIdTag in StopTransaction matches ParentIdTag in StartTransaction	PASS
TC_005_1_CS	Core	EV Side Disconnected - StopTransactionOnEVSideDisconnect = true - UnlockConnectorOnEVSideDisconnect = true	PASS
TC_005_2_CS	Core	EV Side Disconnected - StopTransactionOnEVSideDisconnect = true - UnlockConnectorOnEVSideDisconnect = false	PASS
TC_007_1_CS	Core	Regular Start Charging Session Cached Id	PASS
TC_061_1_CS	Core	Clear Authorization Data in Authorization Cache - Local	PASS
TC_010_CS	Core	Remote Start Charging Session Cable Plugged in First	PASS
TC_011_1_CS	Core	Remote Start Charging Session Remote Start First	PASS
TC_011_2_CS	Core	Remote Start Charging Session Time Out	PASS
TC_012_CS	Core	Remote Stop Charging Session	PASS
TC_013_CS	Core	Hard Reset Without transaction	PASS
TC_014_CS	Core	Soft Reset Without Transaction	PASS
TC_015_CS	Core	Hard Reset With Transaction	PASS
TC_016_CS	Core	Soft Reset With Transaction	PASS
TC_017_1_CS	Core	Unlock connector - no charging session running	PASS
TC_018_1_CS	Core	Unlock Connector - With Charging Session	PASS
TC_019_CS	Core	Retrieve configuration	PASS
TC_021_CS	Core	Change/set Configuration	PASS
TC_070_CS	Core	Sampled Meter Values	PASS
TC_071_CS	Core	Clock-aligned Meter Values	PASS

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Testcase	Certification Profile	Name	Result
TC_023_4_CS	Core	Start local Charging Session Authorize invalid	PASS
TC_026_CS	Core	Remote Start Charging Session Rejected	PASS
TC_028_CS	Core	Remote Stop Transaction Rejected	PASS
TC_031_CS	Core	Unlock Connector Unknown Connector	PASS
TC_032_1_CS	Core	Power failure boot charging point - configured to stop transaction before going down	PASS
TC_034_CS	Core	Power Failure with Unavailable Status	PASS
TC_036_CS	Core	Connection Loss During Transaction	PASS
TC_037_1_CS	Core	Offline Start Transaction - Valid IdTag	PASS
TC_037_2_CS	Core	Offline Start Transaction - Invalid IdTag - StopTransactionOnInvalidId = false	PASS
TC_037_3_CS	Core	Offline Start Transaction - Invalid IdTag - StopTransactionOnInvalidId = true	PASS
TC_038_CS	Core	Offline Stop Transaction	PASS
TC_039_CS	Core	Offline Transaction	PASS
TC_040_1_CS	Core	Configuration key - NotSupported	PASS
TC_040_2_CS	Core	Configuratioin key - Invalid value	PASS
TC_042_2_CS	Core	Get Local List Version	PASS
TC_043_CS	Core	Send Local Authorization List	PASS
TC_043_2_CS	Core	Send Local Authorization List - VersionMismatch	PASS
TC_008_1_CS	Core	Regular Start Charging Session Id in Local Authorization List	PASS
TC_045_1_CS	Core	Get Diagnostics	PASS
TC_045_2_CS	Core	Get Diagnostics - Upload Failed	PASS
TC_073_CS	Core	Update Charge Point Password for HTTP Basic Authentication	PASS
TC_075_1_CS	Core	Install a certificate on the Charge Point - ManufacturerRootCertificate	PASS
TC_075_2_CS	Core	Install a certificate on the Charge Point - CentralSystemRootCertificate	PASS
TC_076_CS	Core	Delete a specific certificate from the Charge Point	PASS
TC_078_CS	Core	Invalid CentralSystemCertificate Security Event	PASS
TC_079_CS	Core	Get Security Log	PASS
TC_080_CS	Core	Secure Firmware Update	PASS
TC_081_CS	Core	Secure Firmware Update - Invalid Signature	PASS
TC_083_CS	Core	Upgrade security profile	PASS
TC_084_CS	Core	Downgrade security profile - Rejected	PASS
TC_085_CS	Core	Basic Authentication - Valid username/password combination	PASS
TC_086_CS	Core	TLS - server-side certificate - Valid certificate	PASS
TC_046_1_CS	Core	Reservation of a Connector - Local start transaction	PASS

Tested Firmware Image: a2275112f5e7484b306da9695e7cd67289e5fc8a7727a5402704fa56ff49081b3 - OCTT Instance ID: 12c8e4542ebd91fc6f0a7e660e6766b0

Testcase	Certification Profile	Name	Result
TC_046_2_CS	Core	Reservation of a Connector - Remote start transaction	PASS
TC_047_CS	Core	Reservation of a Connector - Expire	PASS
TC_048_2_CS	Core	Reservation of a Connector - Occupied	PASS
TC_048_3_CS	Core	Reservation of a Connector - Unavailable	PASS
TC_049_CS	Core	Reservation of a Charge Point - Transaction	PASS
TC_050_2_CS	Core	Reservation of a Charge Point - Occupied	PASS
TC_050_3_CS	Core	Reservation of a Charge Point - Unavailable	PASS
TC_051_CS	Core	Cancel Reservation	PASS
TC_052_CS	Core	Cancel Reservation - Rejected	PASS
TC_053_1_CS	Core	Use a reserved Connector with parentIdTag - Local	PASS
TC_062_CS	Core	Data Transfer to a Charge Point	PASS
TC_054_CS	Core	Trigger Message	PASS
TC_055_CS	Core	Trigger Message - Rejected	PASS
TC_056_CS	Smart Charging	Central Smart Charging - TxDefaultProfile	PASS
TC_057_CS	Smart Charging	Central Smart Charging - TxProfile	PASS
TC_058_1_CS	Smart Charging	Central Smart Charging - No ongoing transaction	PASS
TC_058_2_CS	Smart Charging	Central Smart Charging - Wrong transactionId	PASS
TC_082_CS	Smart Charging	Central Smart Charging - TxDefaultProfile - with ongoing transaction	PASS
TC_066_CS	Smart Charging	Get Composite Schedule	PASS
TC_067_CS	Smart Charging	Clear Charging Profile	PASS
TC_072_CS	Smart Charging	Stacking Charging Profiles	PASS
TC_059_CS	Smart Charging	Remote Start Transaction with Charging Profile	PASS
TC_060_CS	Smart Charging	Remote Start Transaction with Charging Profile - Rejected	PASS
TC_074_CS	Advanced Security	Update Charge Point Certificate by request of Central System	PASS
TC_077_CS	Advanced Security	Invalid ChargePointCertificate Security Event	PASS
TC_087_CS	Advanced Security	TLS - Client-side certificate - valid certificate	PASS

Tested Firmware Image: a2275112f5e7484b306da9695e7cd67289e5fc8a7727a5402704fa56f49081b3 - OCTT Instance ID: 12c8e4542ebd91fc6f0a7e660e6766b0

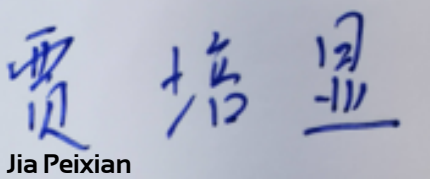
Vendor Declaration of Conformance

Product Type: Charging Station
Product Designation: MaxiCharger Dual Charger (EM44-SS082EB1002)
Firmware Version: PFA0003|1.00.10|1.00.00
Test Date: June 9, 2026
Config ID: 9731B650-8767A392

The Vendor Autel Digital Power Co., Ltd. states that the above-mentioned product and software version combination successfully completed testing in conformance with the reference specification OCPP 1.6 (Edition 2 FINAL, 2017-09-28 including Errata 2025-04) and Security Whitepaper Edition 4 (Improved security for OCPP 1.6-J v1.4, 2026-02-05). The OCPP profiles and optional protocol features that were tested can be found in this Test Report.

This test report is only applicable to the product designation running the specified software version described above. On behalf of Autel Digital Power Co., Ltd. the undersigned declares that the OCPP conformance test was performed under his/her responsibility and that the test results were obtained by testing the above-mentioned product and software version combination using the OCPP Compliance Test Tool (OCTT) in a single uninterrupted test run without any manipulation. Note: it has not been independently verified that above-mentioned product was tested.

For Autel Digital Power Co., Ltd. on June 9, 2026:



Jia Peixian

Software Engineer, Controller Development, Shenzhen, China

Test Result Summary for the Tested Functionalities

Certification Profile	Test Result	Description
Core	Pass	Basic Charging Station, functionality for booting, authorization, configuration, transactions, remote control, secure firmware updates and Security Profile 2.
Advanced Security	Pass	Support for TLS with client authentication.
Smart Charging	Pass	Support for Smart Charging, to control charging.

Disclaimer: For the preparation of this Vendor Declaration, the Open Charge Alliance test tool has been used by the Vendor. The Open Charge Alliance has not been involved in the testing and or test results. Any liability of the Open Charge Alliance in respect of the tests and test results is expressly excluded. This test report 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 resulting from reliance on the results of this report.

Hardware Feature Set

The Hardware Feature set is the actual set of relevant hardware properties of the product tested, that influence the OCPP messaging behavior. In the table below you can see for each hardware feature relevant for OCPP whether this is applicable for this product.

ID	Feature	Supported / Present
HFS-1	Has a detachable cable	Yes
HFS-2	Has a fixed cable	No
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, Mobile network, WiFi
HFS-10	RFID readers	Single

Connector	Current	Phases	Type	Cable Type
1	AC	1 & 3	sType2	Detachable Cable
2	AC	1 & 3	sType2	Detachable Cable



Tested Firmware Image: a2275112f5e7484b306da9695e7cd67289e5fc8a7727a5402704fa56ff49081b3 - OCTT Instance ID: 12c8e4542ebd91fc6f0a7e660e6766b0

Optional Features

The OCPP specification contains many implementation options that can be selected by a vendor, often in the form of optional message fields or configuration variables, that can be used to support advanced functions. Whereas the certification profiles determine which OCPP functionality is implemented, the features describe how much of a certain functionality in a profile has been implemented. The tables below indicate per certification profiles, for each available optional feature within this profile, whether this has been implemented in this product and tested for conformance or not.

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	No
C-04	Authorization Cache	Yes
C-05	Support to limit StatusNotifications	No
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
C-10	Unlocking of connector when cable disconnected on EV side	
C-10.1	Support for unlocking connector when cable disconnected on EV side	Yes
C-10.2	Support for not unlocking when cable disconnected on EV side	Yes
C-11	Support for Security Profile 1: Unsecured Transport with Basic Authentication	Yes

ID	Metervalues	Tested
C-09	Supported MeterValue Measurands	
C-09.1	MeterValuesSampled Data	Current.Import Power.Offered Current.Offered Voltage Energy.Active.Import.Register Power.Active.Import
C-09.2	MeterValuesAligned Data	Current.Import Power.Offered Current.Offered Voltage Energy.Active.Import.Register Power.Active.Import

ID	Cipher Suites	Supported / Present
C-12	Supported Cipher Suites	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 TLS_RSA_WITH_AES_128_GCM_SHA256 TLS_RSA_WITH_AES_256_GCM_SHA384

ID	Local Authorization List Management	Supported / Present
LA-0	Support for Local Authorization List Management	Yes

ID	Remote Trigger	Supported / Present
RT-0	Support for Remote Trigger	Yes

ID	Reservations	Supported / Present
R-0	Support for Reservations	Yes
R-1	Support reservations of entire Charging Station	Yes

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

Additional Questions

The table below lists a number of questions that are needed for determining the complete list of conformance test for this product.

ID	Additional Questions for Lab Testing	Answer
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?	Yes
AQ-4	Is your Charging Station able to download firmware while there is an ongoing transaction?	Yes
AQ-5	Does your Charging Station enforce a selection of EVSE prior to authorization?	Yes
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.	Yes

ID	Additional Questions for Lab Testing	Answer
AQ-7.2	Charge Point configured to report StopTransaction after going down and being back online again.	No
AQ-9	Does your Charging Station have at least one connector with a mechanized locking mechanism on Charging Station side?	Yes
AQ-11	Does your Charging Station support an authorization method, that does not rely on the communication between EV and Charging Station?	Yes

Other Relevant Settings

The table below lists a number of settings that are needed for configuring the test setup for the conformance test for this product.

ID	Limit / Setting	Value
ORS-1	GetConfigurationMaxKeys	136
ORS-4	Minimum MeterValueSampleInterval supported	1
ORS-5	Maximum MeterValueSampleInterval supported	3600
ORS-6	Minimum HeartbeatInterval supported	1
ORS-7	Maximum HeartbeatInterval supported	7200
ORS-11	WebSocketPingInterval	30
ORS-12	LocalAuthListMaxLength	100
ORS-13	SendLocalListMaxLength	100

ID	Certification Profile: Smart Charging	Value
ORS-14	ChargingProfileMaxStackLevel	40
ORS-15	ChargingScheduleMaxPeriods	48
ORS-19	MaxChargingProfilesInstalled	40

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

Test Cases

The following list contains all Test cases that are required for a full conformance test for a product that is defined as in the configuration in this document. This is the complete list of test cases for this configuration, each of these test cases has been passed using the Test System defined above. Please note that test cases that are not applicable for this configuration are left out of this list, so this is a subset of the test cases that are listed and described in the Test Case Document and Test Procedure & Test Plan document.

Testcase	Certification Profile	Name	Result
TC_001_CS	Core	Cold Boot Charge Point	PASS
TC_002_CS	Core	Cold Boot Charge Point - Pending	PASS
TC_003_CS	Core	Regular Charging Session - Plugin First	PASS
TC_004_1_CS	Core	Regular Charging Session Identification First	PASS
TC_004_2_CS	Core	Regular Charging Session Identification First - ConnectionTimeOut	PASS
TC_068_CS	Core	Stop transaction - IdTag in StopTransaction matches IdTag in StartTransaction	PASS
TC_069_CS	Core	Stop transaction - ParentIdTag in StopTransaction matches ParentIdTag in StartTransaction	PASS
TC_005_1_CS	Core	EV Side Disconnected - StopTransactionOnEVSideDisconnect = true - UnlockConnectorOnEVSideDisconnect = true	PASS
TC_005_2_CS	Core	EV Side Disconnected - StopTransactionOnEVSideDisconnect = true - UnlockConnectorOnEVSideDisconnect = false	PASS
TC_007_1_CS	Core	Regular Start Charging Session Cached Id	PASS
TC_061_1_CS	Core	Clear Authorization Data in Authorization Cache - Local	PASS
TC_010_CS	Core	Remote Start Charging Session Cable Plugged in First	PASS
TC_011_1_CS	Core	Remote Start Charging Session Remote Start First	PASS
TC_011_2_CS	Core	Remote Start Charging Session Time Out	PASS
TC_012_CS	Core	Remote Stop Charging Session	PASS
TC_013_CS	Core	Hard Reset Without transaction	PASS
TC_014_CS	Core	Soft Reset Without Transaction	PASS
TC_015_CS	Core	Hard Reset With Transaction	PASS
TC_016_CS	Core	Soft Reset With Transaction	PASS
TC_017_1_CS	Core	Unlock connector - no charging session running	PASS
TC_018_1_CS	Core	Unlock Connector - With Charging Session	PASS
TC_019_CS	Core	Retrieve configuration	PASS
TC_021_CS	Core	Change/set Configuration	PASS
TC_070_CS	Core	Sampled Meter Values	PASS
TC_071_CS	Core	Clock-aligned Meter Values	PASS

Tested Firmware Image: a2275112f5e7484b306da9695e7cd67289e5fc8a7727a5402704fa56f49081b3 - OCTT Instance ID: 12c8e4542ebd91fc6f0a7e660e6766b0

Testcase	Certification Profile	Name	Result
TC_023_4_CS	Core	Start local Charging Session Authorize invalid	PASS
TC_026_CS	Core	Remote Start Charging Session Rejected	PASS
TC_028_CS	Core	Remote Stop Transaction Rejected	PASS
TC_031_CS	Core	Unlock Connector Unknown Connector	PASS
TC_032_1_CS	Core	Power failure boot charging point - configured to stop transaction before going down	PASS
TC_034_CS	Core	Power Failure with Unavailable Status	PASS
TC_036_CS	Core	Connection Loss During Transaction	PASS
TC_037_1_CS	Core	Offline Start Transaction - Valid IdTag	PASS
TC_037_2_CS	Core	Offline Start Transaction - Invalid IdTag - StopTransactionOnInvalidId = false	PASS
TC_037_3_CS	Core	Offline Start Transaction - Invalid IdTag - StopTransactionOnInvalidId = true	PASS
TC_038_CS	Core	Offline Stop Transaction	PASS
TC_039_CS	Core	Offline Transaction	PASS
TC_040_1_CS	Core	Configuration key - NotSupported	PASS
TC_040_2_CS	Core	Configuratioin key - Invalid value	PASS
TC_042_2_CS	Core	Get Local List Version	PASS
TC_043_CS	Core	Send Local Authorization List	PASS
TC_043_2_CS	Core	Send Local Authorization List - VersionMismatch	PASS
TC_008_1_CS	Core	Regular Start Charging Session Id in Local Authorization List	PASS
TC_045_1_CS	Core	Get Diagnostics	PASS
TC_045_2_CS	Core	Get Diagnostics - Upload Failed	PASS
TC_073_CS	Core	Update Charge Point Password for HTTP Basic Authentication	PASS
TC_075_1_CS	Core	Install a certificate on the Charge Point - ManufacturerRootCertificate	PASS
TC_075_2_CS	Core	Install a certificate on the Charge Point - CentralSystemRootCertificate	PASS
TC_076_CS	Core	Delete a specific certificate from the Charge Point	PASS
TC_078_CS	Core	Invalid CentralSystemCertificate Security Event	PASS
TC_079_CS	Core	Get Security Log	PASS
TC_080_CS	Core	Secure Firmware Update	PASS
TC_081_CS	Core	Secure Firmware Update - Invalid Signature	PASS
TC_083_CS	Core	Upgrade security profile	PASS
TC_084_CS	Core	Downgrade security profile - Rejected	PASS
TC_085_CS	Core	Basic Authentication - Valid username/password combination	PASS
TC_086_CS	Core	TLS - server-side certificate - Valid certificate	PASS
TC_046_1_CS	Core	Reservation of a Connector - Local start transaction	PASS

Tested Firmware Image: a2275112f5e7484b306da9695e7cd67289e5fc8a7727a5402704fa56ff49081b3 - OCTT Instance ID: 12c8e4542ebd91fc6f0a7e660e6766b0

Testcase	Certification Profile	Name	Result
TC_046_2_CS	Core	Reservation of a Connector - Remote start transaction	PASS
TC_047_CS	Core	Reservation of a Connector - Expire	PASS
TC_048_2_CS	Core	Reservation of a Connector - Occupied	PASS
TC_048_3_CS	Core	Reservation of a Connector - Unavailable	PASS
TC_049_CS	Core	Reservation of a Charge Point - Transaction	PASS
TC_050_2_CS	Core	Reservation of a Charge Point - Occupied	PASS
TC_050_3_CS	Core	Reservation of a Charge Point - Unavailable	PASS
TC_051_CS	Core	Cancel Reservation	PASS
TC_052_CS	Core	Cancel Reservation - Rejected	PASS
TC_053_1_CS	Core	Use a reserved Connector with parentIdTag - Local	PASS
TC_062_CS	Core	Data Transfer to a Charge Point	PASS
TC_054_CS	Core	Trigger Message	PASS
TC_055_CS	Core	Trigger Message - Rejected	PASS
TC_056_CS	Smart Charging	Central Smart Charging - TxDefaultProfile	PASS
TC_057_CS	Smart Charging	Central Smart Charging - TxProfile	PASS
TC_058_1_CS	Smart Charging	Central Smart Charging - No ongoing transaction	PASS
TC_058_2_CS	Smart Charging	Central Smart Charging - Wrong transactionId	PASS
TC_082_CS	Smart Charging	Central Smart Charging - TxDefaultProfile - with ongoing transaction	PASS
TC_066_CS	Smart Charging	Get Composite Schedule	PASS
TC_067_CS	Smart Charging	Clear Charging Profile	PASS
TC_072_CS	Smart Charging	Stacking Charging Profiles	PASS
TC_059_CS	Smart Charging	Remote Start Transaction with Charging Profile	PASS
TC_060_CS	Smart Charging	Remote Start Transaction with Charging Profile - Rejected	PASS
TC_074_CS	Advanced Security	Update Charge Point Certificate by request of Central System	PASS
TC_077_CS	Advanced Security	Invalid ChargePointCertificate Security Event	PASS
TC_087_CS	Advanced Security	TLS - Client-side certificate - valid certificate	PASS

Tested Firmware Image: a2275112f5e7484b306da9695e7cd67289e5fc8a7727a5402704fa56f49081b3 - OCTT Instance ID: 12c8e4542ebd91fc6f0a7e660e6766b0

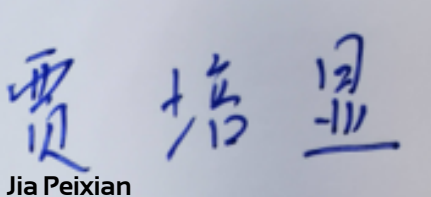
Vendor Declaration of Conformance

Product Type: Charging Station
Product Designation: MaxiCharger Dual Charger (ES44-SS082EB1002)
Firmware Version: PFA0003|1.00.10|1.00.00
Test Date: June 11, 2026
Config ID: 9731B650-AABEE812

The Vendor Autel Digital Power Co., Ltd. states that the above-mentioned product and software version combination successfully completed testing in conformance with the reference specification OCPP 1.6 (Edition 2 FINAL, 2017-09-28 including Errata 2025-04) and Security Whitepaper Edition 4 (Improved security for OCPP 1.6-J v1.4, 2026-02-05). The OCPP profiles and optional protocol features that were tested can be found in this Test Report.

This test report is only applicable to the product designation running the specified software version described above. On behalf of Autel Digital Power Co., Ltd. the undersigned declares that the OCPP conformance test was performed under his/her responsibility and that the test results were obtained by testing the above-mentioned product and software version combination using the OCPP Compliance Test Tool (OCTT) in a single uninterrupted test run without any manipulation. Note: it has not been independently verified that above-mentioned product was tested.

For Autel Digital Power Co., Ltd. on June 11, 2026:



Jia Peixian

Software Engineer, Controller Development, Shenzhen, China

Test Result Summary for the Tested Functionalities

Certification Profile	Test Result	Description
Core	Pass	Basic Charging Station, functionality for booting, authorization, configuration, transactions, remote control, secure firmware updates and Security Profile 2.
Advanced Security	Pass	Support for TLS with client authentication.
Smart Charging	Pass	Support for Smart Charging, to control charging.

Disclaimer: For the preparation of this Vendor Declaration, the Open Charge Alliance test tool has been used by the Vendor. The Open Charge Alliance has not been involved in the testing and or test results. Any liability of the Open Charge Alliance in respect of the tests and test results is expressly excluded. This test report 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 resulting from reliance on the results of this report.

Tested Firmware Image: a2275112f5e7484b306da9695e7cd672899e5fc8a7727a5402704fa56ff49081b3 - OCTT Instance ID: 12c8e4542ebd91fc6f0a7e660e6766b0

Hardware Feature Set

The Hardware Feature set is the actual set of relevant hardware properties of the product tested, that influence the OCPP messaging behavior. In the table below you can see for each hardware feature relevant for OCPP whether this is applicable for this product.

ID	Feature	Supported / Present
HFS-1	Has a detachable cable	Yes
HFS-2	Has a fixed cable	No
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, Mobile network, WiFi
HFS-10	RFID readers	Single

Connector	Current	Phases	Type	Cable Type
1	AC	1 & 3	sType2	Detachable Cable
2	AC	1 & 3	sType2	Detachable Cable



Optional Features

The OCPP specification contains many implementation options that can be selected by a vendor, often in the form of optional message fields or configuration variables, that can be used to support advanced functions. Whereas the certification profiles determine which OCPP functionality is implemented, the features describe how much of a certain functionality in a profile has been implemented. The tables below indicate per certification profiles, for each available optional feature within this profile, whether this has been implemented in this product and tested for conformance or not.

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	No
C-04	Authorization Cache	Yes
C-05	Support to limit StatusNotifications	No
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
C-10	Unlocking of connector when cable disconnected on EV side	
C-10.1	Support for unlocking connector when cable disconnected on EV side	Yes
C-10.2	Support for not unlocking when cable disconnected on EV side	Yes
C-11	Support for Security Profile 1: Unsecured Transport with Basic Authentication	Yes

ID	Metervalues	Tested
C-09	Supported MeterValue Measurands	
C-09.1	MeterValuesSampled Data	Current.Import Power.Active.Import Voltage Power.Offered Energy.Active.Import.Register Current.Offered
C-09.2	MeterValuesAligned Data	Current.Import Power.Active.Import Voltage Power.Offered Energy.Active.Import.Register Current.Offered

ID	Cipher Suites	Supported / Present
C-12	Supported Cipher Suites	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 TLS_RSA_WITH_AES_128_GCM_SHA256 TLS_RSA_WITH_AES_256_GCM_SHA384

ID	Local Authorization List Management	Supported / Present
LA-0	Support for Local Authorization List Management	Yes

ID	Remote Trigger	Supported / Present
RT-0	Support for Remote Trigger	Yes

ID	Reservations	Supported / Present
R-0	Support for Reservations	Yes
R-1	Support reservations of entire Charging Station	Yes

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

Additional Questions

The table below lists a number of questions that are needed for determining the complete list of conformance test for this product.

ID	Additional Questions for Lab Testing	Answer
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?	Yes
AQ-4	Is your Charging Station able to download firmware while there is an ongoing transaction?	Yes
AQ-5	Does your Charging Station enforce a selection of EVSE prior to authorization?	Yes
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.	Yes

Tested Firmware Image: a2275112f5e7484b306da9695e7cd67289e5fc8a7727a5402704fa56f49081b3 - OCTT Instance ID: 12c8e4542ebd91fc6f0a7e660e6766b0

ID	Additional Questions for Lab Testing	Answer
AQ-7.2	Charge Point configured to report StopTransaction after going down and being back online again.	No
AQ-9	Does your Charging Station have at least one connector with a mechanized locking mechanism on Charging Station side?	Yes
AQ-11	Does your Charging Station support an authorization method, that does not rely on the communication between EV and Charging Station?	Yes

Other Relevant Settings

The table below lists a number of settings that are needed for configuring the test setup for the conformance test for this product.

ID	Limit / Setting	Value
ORS-1	GetConfigurationMaxKeys	136
ORS-4	Minimum MeterValueSampleInterval supported	1
ORS-5	Maximum MeterValueSampleInterval supported	3600
ORS-6	Minimum HeartbeatInterval supported	1
ORS-7	Maximum HeartbeatInterval supported	7200
ORS-11	WebSocketPingInterval	30
ORS-12	LocalAuthListMaxLength	100
ORS-13	SendLocalListMaxLength	100

ID	Certification Profile: Smart Charging	Value
ORS-14	ChargingProfileMaxStackLevel	40
ORS-15	ChargingScheduleMaxPeriods	48
ORS-19	MaxChargingProfilesInstalled	40

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

Test Cases

The following list contains all Test cases that are required for a full conformance test for a product that is defined as in the configuration in this document. This is the complete list of test cases for this configuration, each of these test cases has been passed using the Test System defined above. Please note that test cases that are not applicable for this configuration are left out of this list, so this is a subset of the test cases that are listed and described in the Test Case Document and Test Procedure & Test Plan document.

Testcase	Certification Profile	Name	Result
TC_001_CS	Core	Cold Boot Charge Point	PASS
TC_002_CS	Core	Cold Boot Charge Point - Pending	PASS
TC_003_CS	Core	Regular Charging Session - Plugin First	PASS
TC_004_1_CS	Core	Regular Charging Session Identification First	PASS
TC_004_2_CS	Core	Regular Charging Session Identification First - ConnectionTimeOut	PASS
TC_068_CS	Core	Stop transaction - IdTag in StopTransaction matches IdTag in StartTransaction	PASS
TC_069_CS	Core	Stop transaction - ParentIdTag in StopTransaction matches ParentIdTag in StartTransaction	PASS
TC_005_1_CS	Core	EV Side Disconnected - StopTransactionOnEVSideDisconnect = true - UnlockConnectorOnEVSideDisconnect = true	PASS
TC_005_2_CS	Core	EV Side Disconnected - StopTransactionOnEVSideDisconnect = true - UnlockConnectorOnEVSideDisconnect = false	PASS
TC_007_1_CS	Core	Regular Start Charging Session Cached Id	PASS
TC_061_1_CS	Core	Clear Authorization Data in Authorization Cache - Local	PASS
TC_010_CS	Core	Remote Start Charging Session Cable Plugged in First	PASS
TC_011_1_CS	Core	Remote Start Charging Session Remote Start First	PASS
TC_011_2_CS	Core	Remote Start Charging Session Time Out	PASS
TC_012_CS	Core	Remote Stop Charging Session	PASS
TC_013_CS	Core	Hard Reset Without transaction	PASS
TC_014_CS	Core	Soft Reset Without Transaction	PASS
TC_015_CS	Core	Hard Reset With Transaction	PASS
TC_016_CS	Core	Soft Reset With Transaction	PASS
TC_017_1_CS	Core	Unlock connector - no charging session running	PASS
TC_018_1_CS	Core	Unlock Connector - With Charging Session	PASS
TC_019_CS	Core	Retrieve configuration	PASS
TC_021_CS	Core	Change/set Configuration	PASS
TC_070_CS	Core	Sampled Meter Values	PASS
TC_071_CS	Core	Clock-aligned Meter Values	PASS

Tested Firmware Image: a2275112f5e7484b306da9695e7cd67289e5fc8a7727a5402704fa56f49081b3 - OCTT Instance ID: 12c8e4542ebd91fc6f0a7e660e6766b0

Testcase	Certification Profile	Name	Result
TC_023_4_CS	Core	Start local Charging Session Authorize invalid	PASS
TC_026_CS	Core	Remote Start Charging Session Rejected	PASS
TC_028_CS	Core	Remote Stop Transaction Rejected	PASS
TC_031_CS	Core	Unlock Connector Unknown Connector	PASS
TC_032_1_CS	Core	Power failure boot charging point - configured to stop transaction before going down	PASS
TC_034_CS	Core	Power Failure with Unavailable Status	PASS
TC_036_CS	Core	Connection Loss During Transaction	PASS
TC_037_1_CS	Core	Offline Start Transaction - Valid IdTag	PASS
TC_037_2_CS	Core	Offline Start Transaction - Invalid IdTag - StopTransactionOnInvalidId = false	PASS
TC_037_3_CS	Core	Offline Start Transaction - Invalid IdTag - StopTransactionOnInvalidId = true	PASS
TC_038_CS	Core	Offline Stop Transaction	PASS
TC_039_CS	Core	Offline Transaction	PASS
TC_040_1_CS	Core	Configuration key - NotSupported	PASS
TC_040_2_CS	Core	Configuratioin key - Invalid value	PASS
TC_042_2_CS	Core	Get Local List Version	PASS
TC_043_CS	Core	Send Local Authorization List	PASS
TC_043_2_CS	Core	Send Local Authorization List - VersionMismatch	PASS
TC_008_1_CS	Core	Regular Start Charging Session Id in Local Authorization List	PASS
TC_045_1_CS	Core	Get Diagnostics	PASS
TC_045_2_CS	Core	Get Diagnostics - Upload Failed	PASS
TC_073_CS	Core	Update Charge Point Password for HTTP Basic Authentication	PASS
TC_075_1_CS	Core	Install a certificate on the Charge Point - ManufacturerRootCertificate	PASS
TC_075_2_CS	Core	Install a certificate on the Charge Point - CentralSystemRootCertificate	PASS
TC_076_CS	Core	Delete a specific certificate from the Charge Point	PASS
TC_078_CS	Core	Invalid CentralSystemCertificate Security Event	PASS
TC_079_CS	Core	Get Security Log	PASS
TC_080_CS	Core	Secure Firmware Update	PASS
TC_081_CS	Core	Secure Firmware Update - Invalid Signature	PASS
TC_083_CS	Core	Upgrade security profile	PASS
TC_084_CS	Core	Downgrade security profile - Rejected	PASS
TC_085_CS	Core	Basic Authentication - Valid username/password combination	PASS
TC_086_CS	Core	TLS - server-side certificate - Valid certificate	PASS
TC_046_1_CS	Core	Reservation of a Connector - Local start transaction	PASS

Tested Firmware Image: a2275112f5e7484b306da9695e7cd67289e5fc8a7727a5402704fa56ff49081b3 - OCTT Instance ID: 12c8e4542ebd91fc6f0a7e660e6766b0

Testcase	Certification Profile	Name	Result
TC_046_2_CS	Core	Reservation of a Connector - Remote start transaction	PASS
TC_047_CS	Core	Reservation of a Connector - Expire	PASS
TC_048_2_CS	Core	Reservation of a Connector - Occupied	PASS
TC_048_3_CS	Core	Reservation of a Connector - Unavailable	PASS
TC_049_CS	Core	Reservation of a Charge Point - Transaction	PASS
TC_050_2_CS	Core	Reservation of a Charge Point - Occupied	PASS
TC_050_3_CS	Core	Reservation of a Charge Point - Unavailable	PASS
TC_051_CS	Core	Cancel Reservation	PASS
TC_052_CS	Core	Cancel Reservation - Rejected	PASS
TC_053_1_CS	Core	Use a reserved Connector with parentIdTag - Local	PASS
TC_062_CS	Core	Data Transfer to a Charge Point	PASS
TC_054_CS	Core	Trigger Message	PASS
TC_055_CS	Core	Trigger Message - Rejected	PASS
TC_056_CS	Smart Charging	Central Smart Charging - TxDefaultProfile	PASS
TC_057_CS	Smart Charging	Central Smart Charging - TxProfile	PASS
TC_058_1_CS	Smart Charging	Central Smart Charging - No ongoing transaction	PASS
TC_058_2_CS	Smart Charging	Central Smart Charging - Wrong transactionId	PASS
TC_082_CS	Smart Charging	Central Smart Charging - TxDefaultProfile - with ongoing transaction	PASS
TC_066_CS	Smart Charging	Get Composite Schedule	PASS
TC_067_CS	Smart Charging	Clear Charging Profile	PASS
TC_072_CS	Smart Charging	Stacking Charging Profiles	PASS
TC_059_CS	Smart Charging	Remote Start Transaction with Charging Profile	PASS
TC_060_CS	Smart Charging	Remote Start Transaction with Charging Profile - Rejected	PASS
TC_074_CS	Advanced Security	Update Charge Point Certificate by request of Central System	PASS
TC_077_CS	Advanced Security	Invalid ChargePointCertificate Security Event	PASS
TC_087_CS	Advanced Security	TLS - Client-side certificate - valid certificate	PASS

Tested Firmware Image: a2275112f5e7484b306da9695e7cd67289e5fc8a7727a5402704fa56f49081b3 - OCTT Instance ID: 12c8e4542ebd91fc6f0a7e660e6766b0