Technical Information Service Report

TIS Report: 80172153
Date: December 14, 2023

CLIENT: Zhejiang Hyxi Technology Co., Ltd.
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China

Attention: Ye Yu

Issued by: Xueji Dong

SUBJECT: Interoperability tests via IEEE2030.5 protocol

APPLICABLE REQUIREMENTS:

The testing of the subject inverters was completed according to the following section of the standard entitled "Section 10 interoperability, information exchange, information models and protocol of IEEE1547-2018" and "Section 6 interoperability tests of IEEE1547.1- 2020".

ASSESSMENT:
Please supply a copy of this information when filing an application for CSA Certification related to the SUBJECT, as it may aid the investigation.

1. Test Summary

The interoperability tests specified by section 6 of IEEE1547.1-2020 shall be carried out to validate DER compliance with the interoperability requirements of IEEE Std 1547. Only the interoperability tests related to the functionality supported by the EUT Category under test apply. All testing specified in section 6 of IEEE1547.1-2020 shall be carried out using the local DER communication interface specified in 10.1 in IEEE Std 1547-2018. The local DER communication interface shall be available and meet the communication criteria set forth in this standard at all times that the DER is operating. The phrase "communication interface" shall refer to the local DER communication interface specified in IEEE Std 1547-2018.

Device(s) Under Test Identification

Grid Support Utility Interactive PV Microinverter, high frequency isolated, Models:

- HYX-M1000-S-NA, HYX-M1000-SW-NA, HYX-M1000-S, HYX-M1000-SW,
- HYX-M900-S-NA, HYX-M900-SW-NA, HYX-M900-S, HYX-M900-SW,
- HYX-M800-S-NA, HYX-M800-SW-NA, HYX-M800-S, HYX-M800-SW,
- HYX-M700-S-NA, HYX-M700-SW-NA, HYX-M700-S, HYX-M700-SW,
- HYX-M600-S-NA, HYX-M600-SW-NA, HYX-M600-S, HYX-M600-SW,

Rack mounted; ratings as follows:

Model:		HYX-M1000-SW and HYX-M1000-S	HYX-M1000-SW-NA and HYX-M1000-S-NA
INPUT RATINGS:			
Maximum input voltage (dc)		65 V	65 V
Range of input operating voltage (dc)		16 to 60 V	16 to 60 V
Range of MPPT input operating voltage (dc)		35 to 50 V	35 to 50 V
Maximum input string (channel)		2	2
Maximum input current (dc)		16 A *2	16 A *2
Maximum input short circuit current (dc)		20 A *2	20 A *2
Maximum input source backfeed current to input source (peak)		3.67 Apk, 0.903 Arms@0.224s	3.67 Apk, 0.903 Arms@0.224s
OUTPUT RATINGS:			
Output power factor rating		>0.99 default (0.8 leading to 0.8 lagging)	>0.99 default (0.8 leading to 0.8 lagging)
Operating voltage range (ac)		211.2 to 264.0 @ 240 V 183.0 to 228.8 @ 208 V	211.2 to 264.0 @ 240 V 183.0 to 228.8 @ 208 V
Operating frequency range or single frequency		57.0 to 63.0 Hz	57.0 to 63.0 Hz
Number of phases		1Ø, (L1/L2/G)	1Ø, (L1/L2/G)
Nominal output voltage (ac)		240 V or 208 V	240 V or 208 V
Normal output frequency		60 Hz	60 Hz
Maximum continuous output current (ac) *(only for grid voltage less than Un)*		4.59 A @ 240 V 5.29 A @ 208 V	4.40 A @ 240 V 5.08 A @ 208 V
Rated continuous output current (ac)		4.17 A @ 240 V 4.81 A @ 208 V	4.00 A @ 240 V 4.62 A @ 208 V
Maximum continuous output active power (ac)		1000 W	960 W
Maximum continuous output Apparent power (ac)		1000 VA	960 VA
Maximum output fault current (ac) and duration		99.7 Apk, 1.75 Arms @ 0.41 ms 1.75 Arms @ 1cycle 1.75 Arms @ 3cycles 1.75 Arms @ 5cycles	99.7 Apk, 1.75 Arms @ 0.41 ms 1.75 Arms @ 1cycle 1.75 Arms @ 3cycles 1.75 Arms @ 5cycles
Maximum output overcurrent protection		10 Aac	10 Aac
Line Synchronization Characteristics / In-rush current		0.38 Arms @ 5cycles	0.38 Arms @ 5cycles
Normal operating performance		Category B	Category B
Abnormal operating performance		Category III	Category III
Utility interconnection voltage and frequency trip limits and trip times		See Note 1 below	See Note 1 below
Trip limit and trip time accuracy	Voltage:	± 1%Vnom	± 1%Vnom
	Frequency:	± 0.01Hz	± 0.01Hz

Model:		HYX-M1000-SW and HYX-M1000-S	HYX-M1000-SW-NA and HYX-M1000-S-NA
	Alternate Trip Time	±1%setting, but not less than 34 ms	±1%setting, but not less than 34 ms
Normal operation temperature range		-40˚C to 65˚C (> 47˚C derating)	-40˚C to 65˚C (> 47˚C derating)
Output power temperature derating and maximum full power operating ambient		See Note 2 below	See Note 2 below
Enclosure Rating Type		Type 6	Type 6
Cooling group		Heatsink	Heatsink

Model:		HYX-M900-SW and HYX-M900-S	HYX-M900-SW-NA and HYX-M900-S-NA
INPUT RATINGS:			
Maximum input voltage (dc)		65 V	65 V
Range of input operating voltage (dc)		16 to 60 V	16 to 60 V
Range of MPPT input operating voltage (dc)		35 to 50 V	35 to 50 V
Maximum input string (channel)		2	2
Maximum input current (dc)		16 A *2	16 A *2
Maximum input short circuit current (dc)		20 A *2	20 A *2
Maximum input source backfeed current to input source (peak)		3.67 Apk, 0.903 Arms@0.224s	3.67 Apk, 0.903 Arms@0.224s
OUTPUT RATINGS:			
Output power factor rating		>0.99 default (0.8 leading to 0.8 lagging)	>0.99 default (0.8 leading to 0.8 lagging)
Operating voltage range (ac)		211.2 to 264.0 @ 240 V 183.0 to 228.8 @ 208 V	211.2 to 264.0 @ 240 V 183.0 to 228.8 @ 208 V
Operating frequency range or single frequency		57.0 to 63.0 Hz	57.0 to 63.0 Hz
Number of phases		1Ø, (L1/L2/G)	1Ø, (L1/L2/G)
Nominal output voltage (ac)		240 V or 208 V	240 V or 208 V
Normal output frequency		60 Hz	60 Hz
Maximum continuous output current (ac) *(only for grid voltage less than Un)*		4.13 A @ 240 V 4.76 A @ 208 V	3.77 A @ 240 V 4.35 A @ 208 V
Rated continuous output current (ac)		3.75 A @ 240 V 4.33 A @ 208 V	3.43 A @ 240 V 3.95 A @ 208 V
Maximum continuous output active power (ac)		900 W	822 W
Maximum continuous output Apparent power (ac)		900 VA	822 VA
Maximum output fault current (ac) and duration		99.7 Apk, 1.75 Arms @ 0.41 ms 1.75 Arms @ 1cycle 1.75 Arms @ 3cycles 1.75 Arms @ 5cycles	99.7 Apk, 1.75 Arms @ 0.41 ms 1.75 Arms @ 1cycle 1.75 Arms @ 3cycles 1.75 Arms @ 5cycles
Maximum output overcurrent protection		10 Aac	10 Aac
Line Synchronization Characteristics / In-rush current		0.38 Arms @ 5cycles	0.38 Arms @ 5cycles
Normal operating performance		Category B	Category B
Abnormal operating performance		Category III	Category III
Utility interconnection voltage and frequency trip limits and trip times		See Note 1 below	See Note 1 below
Trip limit and trip time accuracy	Voltage:	± 1%Vnom	± 1%Vnom

Model:		HYX-M900-SW and HYX-M900-S	HYX-M900-SW-NA and HYX-M900-S-NA
	Frequency:	± 0.01Hz	± 0.01Hz
	Alternate Trip Time	±1%setting, but not less than 34 ms	±1%setting, but not less than 34 ms
Normal operation temperature range		-40˚C to 65˚C (> 47˚C derating)	-40˚C to 65˚C (> 47˚C derating)
Output power temperature derating and maximum full power operating ambient		See Note 2 below	See Note 2 below
Enclosure Rating Type		Type 6	Type 6
Cooling group		Heatsink	Heatsink

Model:	HYX-M800-SW and HYX-M800-S	HYX-M800-SW-NA and HYX-M800-S-NA
INPUT RATINGS:		
Maximum input voltage (dc)	65 V	65 V
Range of input operating voltage (dc)	16 to 60 V	16 to 60 V
Range of MPPT input operating voltage (dc)	35 to 50 V	35 to 50 V
Maximum input string (channel)	2	2
Maximum input current (dc)	16 A *2	16 A *2
Maximum input short circuit current (dc)	20 A *2	20 A *2
Maximum input source backfeed current to input source (peak)	3.67 Apk, 0.903 Arms@0.224s	3.67 Apk, 0.903 Arms@0.224s
OUTPUT RATINGS:		
Output power factor rating	>0.99 default (0.8 leading to 0.8 lagging)	>0.99 default (0.8 leading to 0.8 lagging)
Operating voltage range (ac)	211.2 to 264.0 @ 240 V 183.0 to 228.8 @ 208 V	211.2 to 264.0 @ 240 V 183.0 to 228.8 @ 208 V
Operating frequency range or single frequency	57.0 to 63.0 Hz	57.0 to 63.0 Hz
Number of phases	1Ø, (L1/L2/G)	1Ø, (L1/L2/G)
Nominal output voltage (ac)	240 V or 208 V	240 V or 208 V
Normal output frequency	60 Hz	60 Hz
Maximum continuous output current (ac) *(only for grid voltage less than Un)*	3.66 A @ 240 V 4.24 A @ 208 V	3.30 A @ 240 V 3.81 A @ 208 V
Rated continuous output current (ac)	3.33 A @ 240 V 3.85 A @ 208 V	3.00 A @ 240 V 3.46 A @ 208 V
Maximum continuous output active power (ac)	800 W	720 W
Maximum continuous output Apparent power (ac)	800 VA	720 VA
Maximum output fault current (ac) and duration	99.7 Apk, 1.75 Arms @ 0.41 ms 1.75 Arms @ 1cycle 1.75 Arms @ 3cycles 1.75 Arms @ 5cycles	99.7 Apk, 1.75 Arms @ 0.41 ms 1.75 Arms @ 1cycle 1.75 Arms @ 3cycles 1.75 Arms @ 5cycles
Maximum output overcurrent protection	10 Aac	10 Aac
Line Synchronization Characteristics / In-rush current	0.38 Arms @ 5cycles	0.38 Arms @ 5cycles
Normal operating performance	Category B	Category B
Abnormal operating performance	Category III	Category III
Utility interconnection voltage and frequency trip limits and trip times	See Note 1 below	See Note 1 below

Model:		HYX-M800-SW and HYX-M800-S	HYX-M800-SW-NA and HYX-M800-S-NA
Trip limit and trip time accuracy	Voltage:	± 1%Vnom	± 1%Vnom
	Frequency:	± 0.01Hz	± 0.01Hz
	Alternate Trip Time	±1%setting, but not less than 34 ms	±1%setting, but not less than 34 ms
Normal operation temperature range		-40˚C to 65˚C (> 47˚C derating)	-40˚C to 65˚C (> 47˚C derating)
Output power temperature derating and maximum full power operating ambient		See Note 2 below	See Note 2 below
Enclosure Rating Type		Type 6	Type 6
Cooling group		Heatsink	Heatsink
Communication Protocol		N/A	N/A

Model:	HYX-M700-SW and HYX-M700-S	HYX-M700-SW-NA and HYX-M700-S-NA
INPUT RATINGS:		
Maximum input voltage (dc)	65 V	65 V
Range of input operating voltage (dc)	16 to 60 V	16 to 60 V
Range of MPPT input operating voltage (dc)	35 to 50 V	35 to 50 V
Maximum input string (channel)	2	2
Maximum input current (dc)	16 A *2	16 A *2
Maximum input short circuit current (dc)	20 A *2	20 A *2
Maximum input source backfeed current to input source (peak)	3.67 Apk, 0.903 Arms@0.224s	3.67 Apk, 0.903 Arms@0.224s
OUTPUT RATINGS:		
Output power factor rating	>0.99 default (0.8 leading to 0.8 lagging)	>0.99 default (0.8 leading to 0.8 lagging)
Operating voltage range (ac)	211.2 to 264.0 @ 240 V 183.0 to 228.8 @ 208 V	211.2 to 264.0 @ 240 V 183.0 to 228.8 @ 208 V
Operating frequency range or single frequency	57.0 to 63.0 Hz	57.0 to 63.0 Hz
Number of phases	1Ø, (L1/L2/G)	1Ø, (L1/L2/G)
Nominal output voltage (ac)	240 V or 208 V	240 V or 208 V
Normal output frequency	60 Hz	60 Hz
Maximum continuous output current (ac) *(only for grid voltage less than Un)*	3.21 A @ 240 V 3.71 A @ 208 V	2.94 A @ 240 V 3.39 A @ 208 V
Rated continuous output current (ac)	2.92 A @ 240 V 3.37 A @ 208 V	2.67 A @ 240 V 3.08 A @ 208 V
Maximum continuous output active power (ac)	700 W	640 W
Maximum continuous output Apparent power (ac)	700 VA	640 VA
Maximum output fault current (ac) and duration	99.7 Apk, 1.75 Arms @ 0.41 ms 1.75 Arms @ 1cycle 1.75 Arms @ 3cycles 1.75 Arms @ 5cycles	99.7 Apk, 1.75 Arms @ 0.41 ms 1.75 Arms @ 1cycle 1.75 Arms @ 3cycles 1.75 Arms @ 5cycles
Maximum output overcurrent protection	10 Aac	10 Aac
Line Synchronization Characteristics / In-rush current	0.38 Arms @ 5cycles	0.38 Arms @ 5cycles
Normal operating performance	Category B	Category B
Abnormal operating performance	Category III	Category III

Model:		HYX-M700-SW and HYX-M700-S	HYX-M700-SW-NA and HYX-M700-S-NA
Utility interconnection voltage and frequency trip limits and trip times		See Note 1 below	See Note 1 below
Trip limit and trip time accuracy	Voltage:	± 1%Vnom	± 1%Vnom
	Frequency:	± 0.01Hz	± 0.01Hz
	Alternate Trip Time	±1%setting, but not less than 34 ms	±1%setting, but not less than 34 ms
Normal operation temperature range		-40˚C to 65˚C (> 47˚C derating)	-40˚C to 65˚C (> 47˚C derating)
Output power temperature derating and maximum full power operating ambient		See Note 2 below	See Note 2 below
Enclosure Rating Type		Type 6	Type 6
Cooling group		Heatsink	Heatsink

Model:	HYX-M600-SW and HYX-M600-S	HYX-M600-SW-NA and HYX-M600-S-NA
INPUT RATINGS:		
Maximum input voltage (dc)	65 V	65 V
Range of input operating voltage (dc)	16 to 60 V	16 to 60 V
Range of MPPT input operating voltage (dc)	35 to 50 V	35 to 50 V
Maximum input string (channel)	2	2
Maximum input current (dc)	16 A *2	16 A *2
Maximum input short circuit current (dc)	20 A *2	20 A *2
Maximum input source backfeed current to input source (peak)	3.67 Apk, 0.903 Arms@0.224s	3.67 Apk, 0.903 Arms@0.224s
OUTPUT RATINGS:		
Output power factor rating	>0.99 default (0.8 leading to 0.8 lagging)	>0.99 default (0.8 leading to 0.8 lagging)
Operating voltage range (ac)	211.2 to 264.0 @ 240 V 183.0 to 228.8 @ 208 V	211.2 to 264.0 @ 240 V 183.0 to 228.8 @ 208 V
Operating frequency range or single frequency	57.0 to 63.0 Hz	57.0 to 63.0 Hz
Number of phases	1Ø, (L1/L2/G)	1Ø, (L1/L2/G)
Nominal output voltage (ac)	240 V or 208 V	240 V or 208 V
Normal output frequency	60 Hz	60 Hz
Maximum continuous output current (ac) *(only for grid voltage less than Un)*	2.75 A @ 240 V 3.17 A @ 208 V	2.51 A @ 240 V 2.89 A @ 208 V
Rated continuous output current (ac)	2.50 A @ 240 V 2.88 A @ 208 V	2.28 A @ 240 V 2.63 A @ 208 V
Maximum continuous output active power (ac)	600 W	548 W
Maximum continuous output Apparent power (ac)	600 VA	548 VA
Maximum output fault current (ac) and duration	99.7 Apk, 1.75 Arms @ 0.41 ms 1.75 Arms @ 1cycle 1.75 Arms @ 3cycles 1.75 Arms @ 5cycles	99.7 Apk, 1.75 Arms @ 0.41 ms 1.75 Arms @ 1cycle 1.75 Arms @ 3cycles 1.75 Arms @ 5cycles
Maximum output overcurrent protection	10 Aac	10 Aac
Line Synchronization Characteristics / In-rush current	0.38 Arms @ 5cycles	0.38 Arms @ 5cycles
Normal operating performance	Category B	Category B

Model:		HYX-M600-SW and HYX-M600-S	HYX-M600-SW-NA and HYX-M600-S-NA
Abnormal operating performance		Category III	Category III
Utility interconnection voltage and frequency trip limits and trip times		See Note 1 below	See Note 1 below
Trip limit and trip time accuracy	Voltage:	± 1%Vnom	± 1%Vnom
	Frequency:	± 0.01Hz	± 0.01Hz
	Alternate Trip Time	±1%setting, but not less than 34 ms	±1%setting, but not less than 34 ms
Normal operation temperature range		-40˚C to 65˚C (no derating)	-40˚C to 65˚C (no derating)
Output power temperature derating and maximum full power operating ambient		See Note 2 below	See Note 2 below
Enclosure Rating Type		Type 6	Type 6
Cooling group		Heatsink	Heatsink

Notes:

1. Utility Interconnection Voltage and Frequency Trip Limits and Trip Times:

Mandatory voltage tripping requirements:

Shall trip function	Default settings		Ranges of allowable settings	
	Voltage (p.u.)	Clearing time (s)	Voltage (p.u.)	Clearing time (s)
OV2	1.20	0.16	fixed at 1.20	fixed at 0.16
OV1	1.10	13.0	1.10 ~ 1.20	1.0 ~ 13.0
UV1	0.88	21.0	0.0 ~ 0.88	2.0 ~ 50.0
UV2	0.50	2.0	0.0~0.50	0.16 ~ 21.0

Mandatory frequency tripping requirements:

Shall trip function	Default settings		Ranges of allowable settings	
	Frequency (Hz)	Clearing time (s)	Frequency (Hz)	Clearing time (s)
OF2	62.0	0.16	61.8~66.0	0.16~1000.0
OF1	61.2	300.0	61.0~66.0	180.0~1000.0
UF1	58.5	300.0	50.0~59.0	180.0~1000.0
UF2	56.5	0.16	50.0~57.0	0.16~1000.0

2. Operating power envelope as a function of ambient temperature:

Model	DC Input	-40 ˚C	47 ˚C	51 ˚C	55 ˚C	65 ˚C
HYX-M1000-SW HYX-M1000-S	35 Vdc	1000 W	1000 W	800 W	600 W	600 W
	48 Vdc	1000 W	1000 W	800 W	600 W	600 W
	50 Vdc	1000 W	1000 W	800 W	600 W	600 W

Model	DC Input	-40 ˚C	47 ˚C	51 ˚C	55 ˚C	65 ˚C
HYX-M1000-SW-NA HYX-M1000-S-NA	35 Vdc	960 W	960 W	780 W	600 W	600 W
	48 Vdc	960 W	960 W	780 W	600 W	600 W
	50 Vdc	960 W	960 W	780 W	600 W	600 W

Model	DC Input	-40 ˚C	47 ˚C	51 ˚C	55 ˚C	65 ˚C
HYX-M900-SW HYX-M900-S	35 Vdc	900 W	900 W	750 W	600 W	600 W
	48 Vdc	900 W	900 W	750 W	600 W	600 W

	50 Vdc	900 W	900 W	750 W	600 W	600 W

Model	DC Input	-40 ˚C	47 ˚C	51 ˚C	55 ˚C	65 ˚C
HYX-M900-SW-NA HYX-M900-S-NA	35 Vdc	822 W	822 W	711 W	600 W	600 W
	48 Vdc	822 W	822 W	711 W	600 W	600 W
	50 Vdc	822 W	822 W	711 W	600 W	600 W

Model	DC Input	-40 ˚C	47 ˚C	51 ˚C	55 ˚C	65 ˚C
HYX-M800-SW HYX-M800-S	35 Vdc	800 W	800 W	700 W	600 W	600 W
	48 Vdc	800 W	800 W	700 W	600 W	600 W
	50 Vdc	800 W	800 W	700 W	600 W	600 W

Model	DC Input	-40 ˚C	47 ˚C	51 ˚C	55 ˚C	65 ˚C
HYX-M800-SW-NA HYX-M800-S-NA	35 Vdc	720 W	720 W	660 W	600 W	600 W
	48 Vdc	720 W	720 W	660 W	600 W	600 W
	50 Vdc	720 W	720 W	660 W	600 W	600 W

Model	DC Input	-40 ˚C	47 ˚C	51 ˚C	55 ˚C	65 ˚C
HYX-M700-SW HYX-M700-S	35 Vdc	700 W	700 W	650 W	600 W	600 W
	48 Vdc	700 W	700 W	650 W	600 W	600 W
	50 Vdc	700 W	700 W	650 W	600 W	600 W

Model	DC Input	-40 ˚C	47 ˚C	51 ˚C	55 ˚C	65 ˚C
HYX-M700-SW-NA HYX-M700-S-NA	35 Vdc	640 W	640 W	620 W	600 W	600 W
	48 Vdc	640 W	640 W	620 W	600 W	600 W
	50 Vdc	640 W	640 W	620 W	600 W	600 W

Model	DC Input	-40 ˚C	47 ˚C	51 ˚C	55 ˚C	65 ˚C
HYX-M600-SW HYX-M600-S	35 Vdc	600 W	600 W	600 W	600 W	600 W
	48 Vdc	600 W	600 W	600 W	600 W	600 W
	50 Vdc	600 W	600 W	600 W	600 W	600 W

Model	DC Input	-40 ˚C	47 ˚C	51 ˚C	55 ˚C	65 ˚C
HYX-M600-SW-NA HYX-M600-S-NA	35 Vdc	548 W	548 W	548 W	548 W	548 W
	48 Vdc	548 W	548 W	548 W	548 W	548 W
	50 Vdc	548 W	548 W	548 W	548 W	548 W

AGG Information:

Manufacture Name	Zhejiang Hyxi Technology Co., Ltd.
Model No.	HYXiPOWER Cloud
Software Version	1.0.0
Certificate No	CS-000072

Test Tool information:

Tool Company	QualityLogic
Tool Name	IEEE1547.1 Functional Test Suite
Tool Version	V4.3

2. Test Configuration

The following tests were performed on DUT according to the device attributes. For detailed test cases, refer to section 3.

Test Case	Sub Test Case	Description
Nameplate information test	-	Verify nameplate data can be read from the DER
Configuration information test	-	Configuration settings are optional. If used, verify the available settings can be read and written and the settings written take effect.
Monitoring information test	-	Verify monitoring information can be read from the DER and that this information matches the actual values as measured from an independent test equipment separate from the DER interface, and within the steady-state measurement minimum accuracy specified in Table 3 in IEEE Std 1547-2018
Management information test	Adjustable constant power factor test	The purpose of these tests is to verify that adjustable settings can be read and written for each management function and that the settings written take effect
	Voltage-reactive power function test	
	Active power-reactive power test	
	Adjustable constant reactive power test	
	Voltage-active power test	
	Voltage trip test	
	Frequency trip test	
	Frequency droop (frequency-active power or frequency-watt) test	
	Enter service test	
	Limit maximum active power test	

Test Environment

Temperature in the range 15℃to 35℃	Yes
Relative humidity in the range 20% to 75%	Yes

Test Procedures

The test has been run from November 14 to 22, 2023 with QualityLogic IEEE1547.1 Functional Test Suite. Model HYX-M1000-SW was selected from the series for testing. The test tool used was Version 4.3. The whole test process was carried out according to section 6 of IEEE1547.1-2020.

3. Test Result

Summary Convention

The following “Result” convention is used in this summary.

Result Items	Description
PASS	All test cases that have been executed have passed.
FAIL	At least one test case has failed.
NOT APPLICATION	The test case was not applicable to device under test

The test cases had been selected according to the property of device under test. The detailed test cases are shown below.

Summary of Test Results

Test Case	Sub Test Case	Test Result
Nameplate information test	-	PASS
Configuration information test	-	N/A
Monitoring information test	-	PASS
Management information test	Adjustable constant power factor test	PASS
	Voltage-reactive power function test	PASS
	Active power-reactive power test	PASS
	Adjustable constant reactive power test	PASS
	Voltage-active power test	PASS
	Voltage trip test	PASS
	Frequency trip test	PASS
	Frequency droop (frequency-active power or frequency-watt) test	PASS
	Enter service test	PASS
	Limit maximum active power test	PASS

--End of Report---