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检测
TESTING
CNAS L0116

方圆电气检测
FANG YUAN ELECTRIC TEST

报 告 查 询
No.26A133Z30001Y

TEST REPORT

REPORT NO.	26A133Z30001Y
NAME OF SAMPLE	Multi-functional digital panel meters
MODEL	PD600
CUSTOMER	Zhejiang Chint IoT Technology Co., Ltd.
MANUFACTURER	Zhejiang Chint IoT Technology Co., Ltd.
TEST CATEGORY	Entrusted Test

ZHEJIANG FANGYUAN TEST GROUP CO., LTD.

NATIONAL CENTER OF QUALITY INSPECTION FOR ELECTRICAL SAFETY (ZHEJIANG)

浙江方圆检测集团股份有限公司
检验检测专用章
（2）

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NATIONAL CENTER OF QUALITY INSPECTION FOR ELECTRICAL SAFETY (ZHEJIANG)

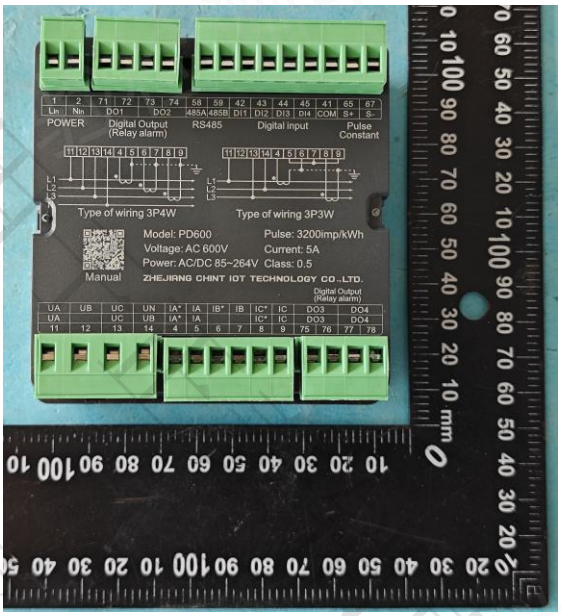
TEST REPORT

Product	Multi-functional digital panel meters	Test Category	Entrusted Test
Model	PD600	Trademark	/
Rated current	AC 5 A	Rated voltage	AC 3×600V
Technical parameter	Accuracy: voltage and current: Class 0.5 Active power and active energy: Class 0.5 Reactive energy Class 2	Serial No.	/
Client	Zhejiang Chint IoT Technology Co., Ltd.	Address	No. 1 Liangce Road, Yueqing City, Wenzhou，Zhejiang Province, P.R. China
Manufacturer	Zhejiang Chint IoT Technology Co., Ltd.	Address	No. 1 Liangce Road, Yueqing City, Wenzhou，Zhejiang Province, P.R. China
Date of Manufacture	/	Sample(s) Deliverer	Zhejiang Chint IoT Technology Co., Ltd.
Receiving Number of Sample(s)	1 set	Receiving Date of Sample(s)	2026-01-10
Test Requirements	IEC 61557-12:2018+A1:2021 Electrical safety in low voltage distrInution systems up to 1000 V AC and 1500 V DC.-Equipment for testing, measuring or monitoring of protective measures Part 12:Power metering and monitoring devices (PMD) IEC 62052-11:2020 Electricity metering equipment - General requirements, tests and test conditions -Part 11:Metering equipment IEC 62053-22:2020 Electricity metering equipment - Particular requirements -Part 22: Static meters for AC active energy (classes 0,1S, 0,2S and 0,5S) IEC 62053-23:2020 Electricity metering equipment - Particular requirements-Part 23:Static meters for reactive energy (classes 2 and 3)		
Decision Criteria	IEC 61557-12:2018+A1:2021 Electrical safety in low voltage distrInution systems up to 1000 V AC and 1500 V DC.-Equipment for testing, measuring or monitoring of protective measures Part 12:Power metering and monitoring devices (PMD) IEC 62052-11:2020 Electricity metering equipment - General requirements, tests and test conditions -Part 11:Metering equipment IEC 62053-22:2020 Electricity metering equipment - Particular requirements -Part 22: Static meters for AC active energy (classes 0,1S, 0,2S and 0,5S) IEC 62053-23:2020 Electricity metering equipment - Particular requirements-Part 23:Static meters for reactive energy (classes 2 and 3)		
Description and Condition of Sample(s)	Be fit for test		
Test Date	2026-01-15 to 2026-02-05	Test location	No. 400 Guangqiong Road, Jiaxing City, Zhejiang, China
Test Summary	The entrusted sample have been tested according to IEC 61557-12:2018+A1:2021, IEC 62052-11:2020, IEC 62053-22:2020, IEC 62053-23:2020. The inspection results of the inspected items all meet the requirements of the standard(Decision Criteria). Test Seal 检验检测专用章 Date of Approval: 2026-02-06		
Remarks	Note: IEC 62053-22:2020 Cass 0.5S；IEC 61557-12:2018 Active Class 0.5 Reactive Class 2；IEC62053-23:2020 Class 2		

Approved by 吴工 Verified by 戴慧雯 Test by 朱同欢 Compose 尤梦婕

TEST REPORT

Photo of Nameplate and Sample(s) under test



Other Explanation of the Test Report

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TEST REPORT

Series Number	Test Case	Clause of standard	Serial No. of samples	Verdict
1	Active power (P) and active energy (E_a) measurements	IEC 61557-12:2018+A1:2021 4.8.2、6.2.2、6.2.3、6.2.4、6.2.5	1#	P
2	Test of no-load condition	IEC 62052-11:2020 7.6 IEC 62053-22:2020 7.6		P
3	Starting current test	IEC 62052-11:2020 7.7 IEC 62053-22:2020 7.7		P
4	Limits of error due to variation of the current	IEC 62052-11:2020 7.9 IEC 62053-22:2020 7.9		P
5	Reactive power (Q_A, Q_V) and reactive energy (E_{rA}, E_{rV}) measurements	IEC 61557-12:2018+A1:2021 4.8.3、6.2.2、6.2.3、6.2.4		P
6	Test of no-load condition	IEC 62052-11:2020 7.6 IEC 62053-23:2020 7.6		P
7	Starting current test	IEC 62052-11:2020 7.7 IEC 62053-23:2020 7.7		P
8	Limits of error due to variation of the current	IEC 62052-11:2020 7.9 IEC 62053-23:2020 7.9		P
9	Frequency (f) measurements	IEC 61557-12:2018+A1:2021 4.8.5、6.2.2、6.2.3、6.2.4、6.2.9		P
10	RMS phase current (I) and neutral current (I_N, I_{Nc}) measurements	IEC 61557-12:2018+A1:2021 4.8.6、6.2.2、6.2.3、6.2.4		P
11	RMS voltage (U) measurements	IEC 61557-12:2018+A1:2021 4.8.7、6.2.2、6.2.3、6.2.4		P
12	Power factor (PF_A, PF_V) measurements	IEC 61557-12:2018+A1:2021 4.8.8、6.2.2		P
13	Climatic tests (Dry heat test)	IEC 61557-12:2018+A1:2021 6.2.15		P
14	Climatic tests (Cold test)	IEC 61557-12:2018+A1:2021 6.2.15		P
15	EMC tests (Permanent AC magnetic induction of external origin 0,5 mT)	IEC 61557-12:2018+A1:2021 4.11、6.2.16		P
16	EMC tests (Electromagnetic RF fields)	IEC 61557-12:2018+A1:2021 4.11、6.2.16		P
17	EMC tests (Conducted disturbances, induced by radio frequency fields)	IEC 61557-12:2018+A1:2021 4.11、6.2.16		P
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Note 1.Possible test case verdicts:
- test case does not apply to the test object: N/A
- test object does meet the requirement :P (Pass)
- test object does not meet the requirement: F (Fail)
- test data provided without decision of compliance: Test data

Note 2.Serial No. of samples in this page and in the text 1# is: 26A133Z30001-1#.

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations	Verdict
		1#	
1	Active power (*P*) and active energy (E_a) measurements		P
	Ambient temperature: 23±2(℃)	21.6	
	Relative humidity:40~60 (%)	48.6	
	Active power (*P*) measurement		
	U= 400V In= 5A Imax= 6A		
	Active power performance class: 0.5		
	Limits of error:≤±0.5%		

cosφ	Current (A)	Standard value (W)	Show value (W)	Error (%)
1	0.01In	60.000	59.9	-0.17
	0.02In	120.000	120.0	0.00
	0.05In	300.000	300.0	0.00
	In	6000.000	6.001 kW	0.02
	Imax	7200.000	7.200 kW	0.00
0.5L	0.02In	60.000	59.9	-0.17
	0.05In	150.000	150.0	0.00
	0.10In	300.000	299.9	-0.03
	In	3000.000	3.003 kW	0.10
	Imax	3600.000	3.600 kW	0.00
0.8C	0.02In	96.000	95.9	-0.10
	0.05In	240.000	239.9	-0.04
	0.10In	480.000	480.0	0.00
	In	4800.000	4.800 kW	0.00
	Imax	5760.000	5.759 kW	-0.02

Active energy (Ea) measurement
U= 400V
In= 5A
Imax= 6A
Active energy class: 0.5
Limits of error:≤±1.0%

cosφ	Current (A)	Limits of error (%)	Error (%)
1	0.01In	±1.0	0.0679
	0.02In	±1.0	0.0613
	0.05In	±0.5	0.0605
	In	±0.5	0.0434
	Imax	±0.5	0.0447
0.5L	0.02In	±1.0	0.0846
	0.05In	±1.0	0.0727
	0.10In	±0.6	0.0566
	In	±0.6	0.0393
	Imax	±0.6	0.0484
0.8C	0.02In	±1.0	0.0469
	0.05In	±1.0	0.0607
	0.10In	±0.6	0.0639
	In	±0.6	0.0665
	Imax	±0.6	0.0458

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations	Verdict
		1#	

Active power (P) and active energy (E_a) measurements(continue)

Test of temperature influence
(active power)
Un= 400V
In= 5A
Imax= 6A
Active power performance class: 0.5
Temperature coefficient（%/K）:
≤±0.025

cosφ	Current（A）	Standard value（W）	Show value（kW）		Temperature coefficient（%/K）
			-25.0℃	-5.0℃	
1	0.05In	300.000	298.9W	299.5W	0.010
	Imax	7200.000	7.195	7.198	0.002
0.5L	0.10In	300.000	298.6W	299.4W	0.013
	Imax	3600.000	3.595	3.598	0.002

cosφ	Current（A）	Standard value（W）	Show value（kW）		Temperature coefficient（%/K）
			-5.0℃	+15.0℃	
1	0.10In	300.000	299.5W	299.8W	0.005
	Imax	7200.000	7.198	7.199	0.001
0.5L	0.20In	300.000	299.4W	299.7W	0.005
	Imax	3600.000	3.598	3.599	0.001

cosφ	Current（A）	Standard value（W）	Show value（kW）		Temperature coefficient（%/K）
			+15.0℃	+35.0℃	
1	0.10In	300.000	299.8W	300.1W	0.005
	Imax	7200.000	7.199	7.201	0.001
0.5L	0.20In	300.000	299.7W	300.3W	0.010
	Imax	3600.000	3.599	3.601	0.001

cosφ	Current（A）	Standard value（W）	Show value（kW）		Temperature coefficient（%/K）
			+35.0℃	+55.0℃	
1	0.10In	300.000	300.1W	299.9W	-0.003
	Imax	7200.000	7.201	7.199	-0.001
0.5L	0.20In	300.000	300.3W	299.8W	-0.008
	Imax	3600.000	3.601	3.599	-0.001

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations	Verdict
		1#	

Active power (P) and active energy (E_a) measurements(continue)

Test of temperature influence
(active energy)
Un= 400V
In= 5A
Imax= 6A
Active energy class: 0.5
Temperature coefficient（%/K）:
≤±0.025

cosφ	Current（A）	Temperature coefficient limit(%/K)	Error（%）		Temperature coefficient（%/K）
			-25.0℃	-5.0℃	
1	0.10In	±0.025	-0.1241	-0.0634	0.003
	Imax	±0.025	-0.1059	-0.0581	0.002
0.5L	0.20In	±0.025	-0.1153	-0.0384	0.004
	Imax	±0.025	-0.1085	-0.0527	0.003

cosφ	Current（A）	Temperature coefficient limit(%/K)	Error（%）		Temperature coefficient（%/K）
			-5.0℃	+15.0℃	
1	0.10In	±0.025	-0.0634	0.0528	0.006
	Imax	±0.025	-0.0581	0.0781	0.007
0.5L	0.20In	±0.025	-0.0384	0.0519	0.005
	Imax	±0.025	-0.0527	0.0664	0.006

cosφ	Current（A）	Temperature coefficient limit(%/K)	Error（%）		Temperature coefficient（%/K）
			+15.0℃	+35.0℃	
1	0.10In	±0.025	0.0528	0.0842	0.002
	Imax	±0.025	0.0781	0.0987	0.001
0.5L	0.20In	±0.025	0.0519	0.0968	0.002
	Imax	±0.025	0.0664	0.0991	0.002

cosφ	Current（A）	Temperature coefficient limit(%/K)	Error（%）		Temperature coefficient（%/K）
			+35.0℃	+55.0℃	
1	0.10In	±0.025	0.0842	0.1085	0.001
	Imax	±0.025	0.0987	0.1184	0.001
0.5L	0.20In	±0.025	0.0968	0.1247	0.001
	Imax	±0.025	0.0991	0.1378	0.002

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations	Verdict
		1#	

Active power (P) and active energy (E_a) measurements(continue)

Auxiliary power voltage influence (active power)

Un= 400V
In= 5A
Active power performance class: 0.5
Variation limit:≤±0.05%

Auxiliary power voltage: 0.85Un= 187V

cosφ	Current（A）	Baseline value（W）	Show value（W）	Deviation（%）
1	0.10In	600.0	600.0	0.00

Auxiliary power voltage: 1.15Un= 253V

cosφ	Current（A）	Baseline value（W）	Show value（W）	Deviation（%）
1	0.10In	600.0	600.0	0.00

Auxiliary power voltage influence (active energy)

Un= 400V
In= 5A
Active energy class: 0.5
Variation limit:≤±0.05%

Auxiliary power voltage: 0.85Un= 187V

cosφ	Current（A）	Baseline error（%）	Experimental error（%）	Variation limit（%）	Error offset（%）
1	0.10In	0.0460	0.0849	±0.05	0.0389

Auxiliary power voltage: 1.15Un= 253V

cosφ	Current（A）	Baseline error（%）	Experimental error（%）	Variation limit（%）	Error offset（%）
1	0.10In	0.0460	0.0753	±0.05	0.0293

Voltage influence (active energy)

Un= 400V
In= 5A
Imax= 6A
Active energy class: 0.5
Variation limit:≤±0.19%

Voltage: 0.8Un= 320V

cosφ	Current（A）	Baseline error（%）	Experimental error（%）	Variation limit（%）	Error offset（%）
1	0.02In	0.0613	0.0963	±0.19	0.0350
	Imax	0.0447	0.1055	±0.19	0.0608
0.5L	0.05 In	0.0727	0.1287	±0.38	0.0560
	Imax	0.0484	0.1175	±0.38	0.0691

Voltage: 1.2Un= 480V

cosφ	Current（A）	Baseline error（%）	Experimental error（%）	Variation limit（%）	Error offset（%）
1	0.02In	0.0613	0.1388	±0.19	0.0775
	Imax	0.0447	0.1308	±0.19	0.0861
0.5L	0.05 In	0.0727	0.1422	±0.38	0.0695
	Imax	0.0484	0.1520	±0.38	0.1036

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations	Verdict
		1#	

Active power (P) and active energy (E_a) measurements(continue)

Voltage influence (active energy)

Un= 600V
In= 5A
Imax= 6A
Active energy class: 0.5
Variation limit:≤±0.19%

Voltage: 0.8Un= 480V

cosφ	Current（A）	Baseline error（%）	Experimental error（%）	Variation limit（%）	Error offset（%）
1	0.02In	0.0764	0.0933	±0.19	0.0169
	Imax	0.0921	0.1251	±0.19	0.0330
0.5L	0.05 In	0.0836	0.1321	±0.38	0.0485
	Imax	0.1024	0.0656	±0.38	-0.0368

Voltage: 1.2Un= 720V

cosφ	Current（A）	Baseline error（%）	Experimental error（%）	Variation limit（%）	Error offset（%）
1	0.02In	0.0764	0.0839	±0.19	0.0075
	Imax	0.0921	0.1358	±0.19	0.0437
0.5L	0.05 In	0.0836	0.1447	±0.38	0.0611
	Imax	0.1024	0.1522	±0.38	0.0498

Frequency influence(active power)

Un= 400V
In= 5A
Imax= 6A
Active power performance class: 0.5
Variation limit:≤±0.19%

Frequency: 1.02Fn=51Hz

cosφ	Current（A）	Baseline value（W）	Show value（W）	Deviation（%）
1	0.02In	120.0	120.0	0.00
	Imax	7.200kW	7.201 kW	0.03
0.5L	0.05In	150.0	150.0	0.00
	Imax	3.600kW	3.601 kW	0.03

Frequency: 0.98Fn=49Hz

cosφ	Current（A）	Baseline value（W）	Show value（W）	Deviation（%）
1	0.02In	120.0	120.0	0.00
	Imax	7.200kW	7.200 kW	0.00
0.5L	0.05In	150.0	150.0	0.00
	Imax	3.600kW	3.601 kW	0.03

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations	Verdict
		1#	

Active power (P) and active energy (E_a) measurements(continue)

Frequency influence(active power)

Un= 400V
In= 5A
Imax= 6A
Active power performance class: 0.5
Variation limit:≤±0.19%

Frequency: 1.02Fn=61.2Hz

cosφ	Current（A）	Baseline value（W）	Show value（W）	Deviation（%）
1	0.02In	120.0	120.0	0.00
	Imax	7.200kW	7.200 kW	0.00
0.5L	0.05In	150.0	150.0	0.00
	Imax	3.600kW	3.601 kW	0.03

Frequency: 0.98Fn=58.8Hz

cosφ	Current（A）	Baseline value（W）	Show value（W）	Deviation（%）
1	0.02In	120.0	120.0	0.00
	Imax	7.200kW	7.201 kW	0.03
0.5L	0.05In	150.0	150.0	0.00
	Imax	3.600kW	3.601 kW	0.03

Frequency influence (active energy)

Un= 400V
In= 5A
Imax= 6A
Active energy class: 0.5
Variation limit:≤±0.19%

Frequency: 1.02Fn=51Hz

cosφ	Current（A）	Baseline error（%）	Experimental error（%）	Variation limit（%）	Error offset（%）
1	0.02In	0.0613	0.1142	±0.19	0.0529
	Imax	0.0447	0.1097	±0.19	0.0650
0.5L	0.05In	0.0727	0.1408	±0.19	0.0681
	Imax	0.0484	0.1367	±0.19	0.0883

Frequency: 0.98Fn=49Hz

cosφ	Current（A）	Baseline error（%）	Experimental error（%）	Variation limit（%）	Error offset（%）
1	0.02In	0.0613	0.1297	±0.19	0.0684
	Imax	0.0447	0.1183	±0.19	0.0736
0.5L	0.05In	0.0727	0.1426	±0.19	0.0699
	Imax	0.0484	0.1537	±0.19	0.1053

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations	Verdict
		1#	

Active power (P) and active energy (E_a) measurements(continue)

Frequency influence (active energy)

Un= 400V
In= 5A
Imax= 6A
Active energy class: 0.5
Variation limit:≤±0.19%

Frequency: 1.02Fn=61.2Hz

cosφ	Current（A）	Baseline error（%）	Experimental error（%）	Variation limit（%）	Error offset（%）
1	0.02In	0.0613	0.0925	±0.19	0.0312
	Imax	0.0447	0.1055	±0.19	0.0608
0.5L	0.05In	0.0727	0.1149	±0.19	0.0422
	Imax	0.0484	0.1258	±0.19	0.0774

Frequency: 0.98Fn=58.8Hz

cosφ	Current（A）	Baseline error（%）	Experimental error（%）	Variation limit（%）	Error offset（%）
1	0.02In	0.0613	0.1241	±0.19	0.0628
	Imax	0.0447	0.1040	±0.19	0.0593
0.5L	0.05In	0.0727	0.1056	±0.19	0.0329
	Imax	0.0484	0.1216	±0.19	0.0732

Un= 600V
In= 5A
Imax= 6A
Active power performance class: 0.5
Variation limit:≤±0.19%

Frequency: 1.02Fn=51Hz

cosφ	Current（A）	Baseline value（W）	Show value（W）	Deviation（%）
1	0.02In	180.0	180.0	0.00
	Imax	10.801 kW	10.803 kW	0.03
0.5L	0.05In	225.0	225.0	0.00
	Imax	5.400 kW	5.401 kW	0.01

Frequency: 0.98Fn=49Hz

cosφ	Current（A）	Baseline value（W）	Show value（W）	Deviation（%）
1	0.02In	180.0	180.0	0.00
	Imax	10.801 kW	10.802 kW	0.02
0.5L	0.05In	225.0	225.0	0.00
	Imax	5.400 kW	5.401 kW	0.01

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations	Verdict
		1#	

Active power (P) and active energy (E_a) measurements(continue)

Frequency influence(active power)

Un= 600V
In= 5A
Imax= 6A
Active power performance class: 0.5
Variation limit:≤±0.19%

Frequency: 1.02Fn=61.2Hz

cosφ	Current（A）	Baseline value（W）	Show value（W）	Deviation（%）
1	0.02In	180.0	180.0	0.00
	Imax	10.801 kW	10.802 kW	0.02
0.5L	0.05In	225.0	225.0	0.00
	Imax	5.400 kW	5.401 kW	0.01

Frequency: 0.98Fn=58.8Hz

cosφ	Current（A）	Baseline value（W）	Show value（W）	Deviation（%）
1	0.02In	180.0	180.0	0.00
	Imax	10.801 kW	10.801 kW	0.00
0.5L	0.05In	225.0	225.0	0.00
	Imax	5.400 kW	5.401 kW	0.01

Frequency influence (active energy)

Un= 600V
In= 5A
Imax= 6A
Active energy class: 0.5
Variation limit:≤±0.19%

Frequency: 1.02Fn=51Hz

cosφ	Current（A）	Baseline error(%)	Experimental error（%）	Variation limit（%）	Error offset（%）
1	0.02In	0.0855	0.1077	±0.19	0.0222
	Imax	0.0931	0.1231	±0.19	0.0300
0.5L	0.05In	0.0997	0.1256	±0.19	0.0259
	Imax	0.0726	0.1178	±0.19	0.0452

Frequency: 0.98Fn=49Hz

cosφ	Current（A）	Baseline error(%)	Experimental error（%）	Variation limit（%）	Error offset（%）
1	0.02In	0.0855	0.1323	±0.19	0.0468
	Imax	0.0931	0.1338	±0.19	0.0407
0.5L	0.05In	0.0997	0.1259	±0.19	0.0262
	Imax	0.0726	0.1478	±0.19	0.0752

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations	Verdict
		1#	

Active power (P) and active energy (E_a) measurements(continue)

Frequency influence (active energy)

Un= 600V
In= 5A
Imax= 6A
Active energy class: 0.5
Variation limit:≤±0.19%

Frequency: 1.02Fn=61.2Hz

cosφ	Current（A）	Baseline error（%）	Experimental error（%）	Variation limit（%）	Error offset（%）
1	0.02In	0.0855	0.1238	±0.19	0.0403
	Imax	0.0931	0.1507	±0.19	0.0576
0.5L	0.05In	0.0997	0.1190	±0.19	0.0193
	Imax	0.0726	0.1442	±0.19	0.0716

Frequency: 0.98Fn=58.8Hz

cosφ	Current（A）	Baseline error（%）	Experimental error（%）	Variation limit（%）	Error offset（%）
1	0.02In	0.0855	0.1461	±0.19	0.0606
	Imax	0.0931	0.1272	±0.19	0.0341
0.5L	0.05In	0.0997	0.1415	±0.19	0.0418
	Imax	0.0726	0.1077	±0.19	0.0351

Reverse phase sequence influence (active power)
Un= 400.0V
In= 5A
Active power performance class: 0.5
Variation limit:≤±0.095%

cosφ	Current（A）	Baseline value（W）	Show value（W）	Deviation（%）
1	0.10In	600.0	600.0	0.00

Reverse phase sequence influence (active energy)
Un= 400.0V
In= 5A
Active energy class: 0.5
Variation limit:≤±0.095%

cosφ	Current（A）	Baseline error（%）	Experimental error（%）	Variation limit（%）	Error offset（%）
1	0.10In	0.0460	0.0597	±0.095	0.0137

Voltage unbalance influence(active power)

Un= 400V
In= 5A
Imax= 6A
Active power performance class: 0.5
Variation limit:≤±0.95%

Voltage unbalance influence: 10%

cosφ	Current（A）	Baseline value（kW）	Show value（kW）	Deviation（%）
1	In	6.001	6.003	0.03

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations	Verdict
		1#	

Active power (P) and active energy (E_a) measurements(continue)

Voltage unbalance influence(active energy)

Un= 400V
In= 5A
Imax= 6A
Active power performance class: 0.5
Variation limit:≤±0.95%

Voltage unbalance influence: 10%

cosφ	Current（A）	Baseline error（%）	Experimental error（%）	Variation limit（%）	Error offset（%）
1	In	0.0434	0.1044	±0.95	0.0610

Phase loss influence(active power)

Un= 400.0V
In= 5A
Active power performance class: 0.5
Variation limit:≤±1.0%

UA=0V，UB=UC=Un=400V

cosφ	Current（A）	Excitation value（W）	Show value（kW）	Deviation（%）
1	In	4000.0	4.001	0.03

UB=0V，UA=UC=Un=400V

cosφ	Current（A）	Excitation value（W）	Show value（kW）	Deviation（%）
1	In	4000.0	4.001	0.03

UC=0V，UA=UB=Un=400V

cosφ	Current（A）	Excitation value（W）	Show value（kW）	Deviation（%）
1	In	4000.0	4.001	0.03

Phase loss influence(active energy)

Un= 400.0V
In= 5A
Active energy class: 0.5
Variation limit:≤±1.0%

UA=0V，UB=UC=Un=400V

cosφ	Current（A）	Baseline error（%）	Experimental error（%）	Variation limit（%）	Error offset（%）
1	In	0.0434	0.0891	±1.0	0.0457

UB=0V，UA=UC=Un=400V

cosφ	Current（A）	Baseline error（%）	Experimental error（%）	Variation limit（%）	Error offset（%）
1	In	0.0434	0.1109	±1.0	0.0675

UC=0V，UA=UB=Un=400V

cosφ	Current（A）	Baseline error（%）	Experimental error（%）	Variation limit（%）	Error offset（%）
1	In	0.0434	0.1059	±1.0	0.0625

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations	Verdict
		1#	

Active power (P) and active energy (E_a) measurements(continue)

Influence of harmonics in current and voltage circuits

Fundamental current: $I_1=0.5I_{max}$	AC 3.0A
Fundamental voltage: $U_1=U_n$	AC 400.0V
Fundamental power factor: 1	1
Content of 5^{th} harmonic voltage: U_5 = 10 % of U_n	10% U_n
Content of 5^{th} harmonic current: I_5 = 40 % of I_1	40% I_1
Harmonic power factor: 1	1
Fundamental and harmonic voltages in phase, at positive zero crossing	
Total active power: 1,04×P_1= 1,04 × U_1 × I_1	

Un= 400.0V
Imax= 6A
Active power performance class: 0.5
Variation limit:≤±0.5%

cosφ	Current（A）	Excitation value（W）	Show value（kW）	Error（%）
1	0.50I_{max}	3740.123	3.740	0.00

Un= 400.0V
Imax= 6A
Active energy class: 0.5
Variation limit:≤±0.5%

cosφ	Current（A）	Baseline error(%)	Experimental error（%）	Variation limit(%)	Error offset(%)
1	0.50I_{max}	0.0326	0.1154	±0.5	0.0828

Influence of odd harmonics in the current circuit

Un= 400.0V
In= 5A
Active power performance class: 0.5
Variation limit:≤±1.5%

cosφ	Current（A）	Excitation value（W）	Show value（kW）	Error（%）
1	0.50I_n	2802.627	2.803	0.01

Un= 400.0V
In= 5A
Active energy class: 0.5
Variation limit:≤±1.5%

cosφ	Current（A）	Baseline error(%)	Experimental error（%）	Variation limit(%)	Error offset（%）
1	0.50I_n	0.0681	0.1194	±1.5	0.0513

TEST REPORT

<table>
<tr><th>Series Number</th><th>Testing cases and requirements</th><th colspan="6">Test results or observations
1#</th><th>Verdict</th></tr>
<tr><td></td><td>Active power (P) and active energy (E_a) measurements(continue)

Influence of sub-harmonics
Un= 400.0V
In= 5A
Active power performance class: 0.5
Variation limit:≤±1.5%</td><td colspan="6"><table><tr><td>cosφ</td><td>Current（A）</td><td>Excitation value（W）</td><td>Show value（kW）</td><td>Error（%）</td></tr><tr><td>1</td><td>0.50I_n</td><td>2695.323</td><td>2.696</td><td>0.03</td></tr></table></td><td></td></tr>
<tr><td></td><td>Un= 400.0V
In= 5A
Active energy class: 0.5
Variation limit:≤±1.5%</td><td colspan="6"><table><tr><td>cosφ</td><td>Current（A）</td><td>Baseline error（%）</td><td>Experimental error（%）</td><td>Variation limit（%）</td><td>Error offset（%）</td></tr><tr><td>1</td><td>0.50I_n</td><td>0.0681</td><td>0.1249</td><td>±1.5</td><td>0.0568</td></tr></table></td><td></td></tr>
<tr><td>2</td><td>Test of no-load condition
Ambient temperature: 23±2(℃)
Relative humidity:45~75 (%)
Atmospheric pressure:86~106(kPa)
Test condition:
The current circuit shall be open-circuit and a voltage of 1,1 Unom
Technical requirement:
The test output of the meter shall notproduce more than one pulse.</td><td colspan="6">21.7
48.8
100.6

Applied voltage: 1.1 Unom

P</td><td>P</td></tr>
<tr><td>3</td><td>Starting current test
Ambient temperature: 23±2(℃)
Relative humidity:45~75 (%)
Atmospheric pressure:86~106(kPa)
Test condition:
The lowest specified nominal voltage of the meter shall be used.
Technical requirement:
The meter shall start and continue to register at the starting current values specified for the accuracy class in the relevant particular requirements (accuracy class) standards.</td><td colspan="6">21.8
49.6
100.6

Applied voltage: AC 80.0V ;Starting current: 0.01A
Power factor: 1.00

P</td><td>P</td></tr>
</table>

TEST REPORT

<table>
<tr><th>Series Number</th><th>Testing cases and requirements</th><th colspan="4">Test results or observations
1#</th><th>Verdict</th></tr>
<tr><td>4</td><td>Limits of error due to variation of the current
Technical requirement:
Imin= 0.01A
In= 5A
Imax= 6A
Accuracy class: 0.5S</td><td colspan="4">Balanced load
<table><tr><th>cosφ</th><th>Current（A）</th><th>Limits of error（%）</th><th>Error（%）</th></tr><tr><td rowspan="4">1</td><td>0.05 In</td><td>±0.5</td><td>0.0528</td></tr><tr><td>0.1 In</td><td>±0.5</td><td>0.0487</td></tr><tr><td>In</td><td>±0.5</td><td>0.0331</td></tr><tr><td>Imax</td><td>±0.5</td><td>0.0295</td></tr><tr><td rowspan="4">0.5L</td><td>0.02 In</td><td>±1.0</td><td>0.1069</td></tr><tr><td>0.1In</td><td>±0.6</td><td>0.0693</td></tr><tr><td>In</td><td>±0.6</td><td>0.0726</td></tr><tr><td>Imax</td><td>±0.6</td><td>0.0838</td></tr><tr><td rowspan="4">0.8C</td><td>0.02 In</td><td>±1.0</td><td>0.0602</td></tr><tr><td>0.1In</td><td>±0.6</td><td>0.0683</td></tr><tr><td>In</td><td>±0.6</td><td>0.0409</td></tr><tr><td>Imax</td><td>±0.6</td><td>0.0396</td></tr><tr><td>1</td><td>Imin</td><td>±1.0</td><td>0.0528</td></tr></table></td><td>P</td></tr>
</table>

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations	Verdict
		1#	
5	Reactive power (Q_A, Q_V) and reactive energy (E_{rA}, E_{rV}) measurements Ambient temperature: 23±2(℃) Relative humidity:40~60 (%) Reactive power (Q_A, Q_V) measurement U= 400V In= 5A Imax= 6A Reactive power performance class: 1 Limits of error:≤±1.0%	21.5 49.5	P

sinφ	Current (A)	Standard value (Var)	Show value (Var)	Error (%)
1	0.02In	120.000	119.9	-0.08
	0.05In	300.000	300.0	0.00
	In	6000.000	6.001 kVar	0.02
	Imax	7200.000	7.201 kVar	0.01
0.5L	0.05In	150.000	149.9	-0.07
	0.10In	300.000	299.9	-0.03
	In	3000.000	2.998 kVar	-0.07
	Imax	3600.000	3.601 kVar	0.03
0.5C	0.05In	150.000	150.0	0.00
	0.10In	300.000	300.0	0.00
	In	3000.000	3.002 kVar	0.07
	Imax	3600.000	3.601 kVar	0.03
0.25L	0.10In	150.000	149.9	-0.07
	In	1500.000	1.498 kVar	-0.13
	Imax	1800.000	1.801 kVar	0.06
0.25C	0.10In	150.000	149.9	-0.07
	In	1500.000	1.500 kVar	0.00
	Imax	1800.000	1.801 kVar	0.06

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations 1#				Verdict
	Reactive power (Q_A, Q_V) and reactive energy (E_{rA}, E_{rV}) measurements (continue) Reactive energy (E_{rA}, E_{rV}) measurement U= 400V In= 5A Imax= 6A Reactive energy class: 2 Limits of error:≤±2.0%	sinφ	Current (A)	Limits of error (%)	Error (%)	
		1	0.02In	±2.5	0.0681	
			0.05In	±2.0	0.0658	
			In	±2.0	0.0477	
			Imax	±2.0	0.0497	
		0.5L	0.05In	±2.5	0.0431	
			0.10In	±2.0	0.0481	
			In	±2.0	0.0098	
			Imax	±2.0	0.0233	
		0.5C	0.05In	±2.5	0.0763	
			0.10In	±2.0	0.0722	
			In	±2.0	0.0706	
			Imax	±2.0	0.0647	
		0.25L	0.10In	±2.5	0.0281	
			In	±2.5	-0.0335	
			Imax	±2.5	-0.0108	
		0.25C	0.10In	±2.5	0.1123	
			In	±2.5	0.1582	
			Imax	±2.5	0.1649	

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations	Verdict
		1#	

Reactive power (Q_A, Q_V) and reactive energy (E_{rA}, E_{rV}) measurements (continue)

Test of temperature influence (reactive power)
Un= 400.0V
In= 5A
Imax= 6A
Reactive power performance class: 1
Temperature coefficient（%/K）:
≤±0.05

sinφ	Current（A）	Standard value（Var）	Show value（kVar）		Temperature coefficient（%/K）
			-25.0℃	-5.0℃	
1	0.05In	300.000	298.7Var	299.3Var	0.010
	Imax	7200.000	7.196	7.197	0.001
0.5L	0.10In	300.000	298.8Var	299.5Var	0.012
	Imax	3600.000	3.596	3.598	0.001

sinφ	Current（A）	Standard value（Var）	Show value（kVar）		Temperature coefficient（%/K）
			-5.0℃	+15.0℃	
1	0.05In	300.000	299.3Var	299.9Var	0.010
	Imax	7200.000	7.197	7.200	0.002
0.5L	0.10In	300.000	299.5Var	300.0Var	0.008
	Imax	3600.000	3.598	3.601	0.002

sinφ	Current（A）	Standard value（Var）	Show value（kVar）		Temperature coefficient（%/K）
			+15.0℃	+35.0℃	
1	0.05In	300.000	299.9Var	300.2Var	0.005
	Imax	7200.000	7.200	7.202	0.001
0.5L	0.10In	300.000	300.0Var	300.3Var	0.005
	Imax	3600.000	3.601	3.602	0.001

sinφ	Current（A）	Standard value（Var）	Show value（kVar）		Temperature coefficient（%/K）
			+35.0℃	+55.0℃	
1	0.05In	300.000	300.2Var	299.8Var	-0.007
	Imax	7200.000	7.202	7.198	-0.003
0.5L	0.10In	300.000	300.3Var	299.9Var	-0.007
	Imax	3600.000	3.602	3.598	-0.003

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations	Verdict
		1#	

Reactive power (Q_A, Q_V) and reactive energy (E_{rA}, E_{rV}) measurements (continue)

Test of temperature influence (reactive energy)
Un= 400.0V
Imax= 6A

Reactive energy class: 2

Temperature coefficient（%/K）:
≤±0.1

sinφ	Current（A）	Temperature coefficient limit(%/K)	Error（%）		Temperature coefficient（%/K）
			-25.0℃	-5.0℃	
1	0.05In	±0.1	-0.1132	-0.0867	0.001
	Imax	±0.1	-0.1264	-0.0547	0.004
0.5L	0.10In	±0.15	-0.1087	-0.0673	0.002
	Imax	±0.15	-0.0983	-0.0724	0.001

sinφ	Current（A）	Temperature coefficient limit(%/K)	Error（%）		Temperature coefficient（%/K）
			-5.0℃	+15.0℃	
1	0.05In	±0.1	-0.0867	0.0534	0.007
	Imax	±0.1	-0.0547	0.0661	0.006
0.5L	0.10In	±0.15	-0.0673	0.0728	0.007
	Imax	±0.15	-0.0724	0.0820	0.008

sinφ	Current（A）	Temperature coefficient limit(%/K)	Error（%）		Temperature coefficient（%/K）
			+15.0℃	+35.0℃	
1	0.05In	±0.1	0.0534	0.0697	0.001
	Imax	±0.1	0.0661	0.0855	0.001
0.5L	0.10In	±0.15	0.0728	0.0974	0.001
	Imax	±0.15	0.0820	0.0965	0.001

sinφ	Current（A）	Temperature coefficient limit(%/K)	Error（%）		Temperature coefficient（%/K）
			+35.0℃	+55.0℃	
1	0.05In	±0.1	0.0697	0.1120	0.002
	Imax	±0.1	0.0855	0.1342	0.002
0.5L	0.10In	±0.15	0.0974	0.1462	0.002
	Imax	±0.15	0.0965	0.1348	0.002

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations	Verdict
		1#	

Reactive power (Q_A, Q_V) and reactive energy (E_{rA}, E_{rV}) measurements (continue)

Auxiliary power voltage influence (reactive power)

Un= 400.0V
In= 5A
Reactive power performance class: 1
Variation limit:≤±0.1%

Auxiliary power voltage: 0.85Un= 187V

sinφ	Current（A）	Baseline value（Var）	Show value（Var）	Deviation（%）
1	0.10In	600.0	600.0	0.00

Auxiliary power voltage: 1.15Un= 253V

sinφ	Current（A）	Baseline value（Var）	Show value（Var）	Deviation（%）
1	0.10In	600.0	600.0	0.00

Auxiliary power voltage influence (reactive energy)

Un= 400.0V
In= 5A
Reactive energy class: 2
Variation limit:≤±0.2%

Auxiliary power voltage: 0.85Un= 187V

sinφ	Current（A）	Baseline error（%）	Experimental error（%）	Variation limit（%）	Error offset（%）
1	0.10In	0.0602	0.0943	±0.2	0.341

Auxiliary power voltage: 1.15Un= 253V

sinφ	Current（A）	Baseline error（%）	Experimental error（%）	Variation limit（%）	Error offset（%）
1	0.10In	0.0602	0.0876	±0.2	0.274

Voltage influence (reactive energy)

Un= 400.0V
In= 5A
Imax= 6A
Reactive energy class: 2
Variation limit:≤±1.0%

Voltage: 0.8Un= 320V

sinφ	Current（A）	Baseline error（%）	Experimental error（%）	Variation limit（%）	Error offset（%）
1	0.02In	0.0681	0.1123	±1.0	0.0442
	Imax	0.0497	0.1055	±1.0	0.0558
0.5L	0.05 In	0.0431	0.0974	±1.5	0.0543
	Imax	0.0233	0.0837	±1.5	0.0604

Voltage: 1.2Un= 480V

sinφ	Current（A）	Baseline error（%）	Experimental error（%）	Variation limit（%）	Error offset（%）
1	0.02In	0.0681	0.1088	±1.0	0.0407
	Imax	0.0497	0.1042	±1.0	0.0545
0.5L	0.05 In	0.0431	0.0955	±1.5	0.0524
	Imax	0.0233	0.0934	±1.5	0.0701

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations	Verdict
		1#	

Reactive power (Q_A, Q_V) and reactive energy (E_{rA}, E_{rV}) measurements (continue)

Frequency influence(reactive power)

Un= 400V
In= 5A
Imax= 6A
Reactive power performance class: 0.5
Variation limit:≤±0.19%

Frequency: 1.02Fn=51Hz

sinφ	Current（A）	Baseline value（Var）	Show value（Var）	Deviation（%）
1	0.02In	119.9	120.0	0.08
	Imax	7.201 kVar	7.200 kVar	0.00
0.5L	0.05In	149.9	149.9	0.00
	Imax	3.601 kVar	3.601 kVar	0.00

Frequency: 0.98Fn=49Hz

sinφ	Current（A）	Baseline value（Var）	Show value（Var）	Deviation（%）
1	0.02In	119.9	120.0	0.08
	Imax	7.201 kVar	7.201 kVar	0.00
0.5L	0.05In	149.9	150.0	0.07
	Imax	3.601 kVar	3.600 kVar	0.00

Frequency influence (reactive energy)

Un= 400.0V
In= 5A
Imax= 6A
Reactive energy class: 2
Variation limit:≤±2.5%

Frequency: 1.02Fn=51Hz

sinφ	Current（A）	Baseline error（%）	Experimental error（%）	Variation limit（%）	Error offset（%）
1	0.02In	0.0681	0.1165	±2.5	0.0484
	Imax	0.0497	0.1275	±2.5	0.0778
0.5L	0.05In	0.0431	0.1327	±2.5	0.0896
	Imax	0.0233	0.1081	±2.5	0.0848

Frequency: 0.98Fn=49Hz

sinφ	Current（A）	Baseline error（%）	Experimental error（%）	Variation limit（%）	Error offset（%）
1	0.02In	0.0681	0.1124	±2.5	0.0443
	Imax	0.0497	0.1170	±2.5	0.0673
0.5L	0.05In	0.0431	0.1318	±2.5	0.0887
	Imax	0.0233	0.1208	±2.5	0.0975

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations 1#	Verdict
6	Test of no-load condition		P
	Ambient temperature: 23±2(℃)	21.6	
	Relative humidity:45~75 (%)	48.7	
	Atmospheric pressure:86~106(kPa)	100.9	
	Test condition: The current circuit shall be open-circuit and a voltage of 1,1 *U*nom	Applied voltage: 1.1 *U*nom	
	Technical requirement: The test output of the meter shall notproduce more than one pulse.	P	
7	Starting current test		P
	Ambient temperature: 23±2(℃)	21.7	
	Relative humidity:45~75 (%)	48.9	
	Atmospheric pressure:86~106(kPa)	100.9	
	Test condition: The lowest specified nominal voltage of the meter shall be used.	Applied voltage: AC 80.0V ;Starting current: 0.01A Power factor: 1.00	
	Technical requirement: The meter shall start and continue to register at the starting current values specified for the accuracy class in the relevant particular requirements (accuracy class) standards.	P	

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations	Verdict
		1#	
8	Limits of error due to variation of the current Technical requirement: Un= 400.0V Imin= 0.01A In= 5A Imax= 6A Accuracy class: 2		P

Balanced load

sinφ	Current（A）	Limits of error（%）	Error（%）
1	Imin	±2.5	0.0739
	0.05 In	±2.0	0.0786
	In	±2.0	0.0463
	Imax	±2.0	0.0442
0.5L	0.05 In	±2.5	0.0126
	0.1In	±2.0	0.0153
	In	±2.0	-0.0226
	Imax	±2.0	-0.0382
0.5C	0.05 In	±2.5	0.0814
	0.1In	±2.0	0.0555
	In	±2.0	0.0417
	Imax	±2.0	0.0705
0.25L	0.1In	±2.5	-0.0149
	In	±2.5	-0.0947
	Imax	±2.5	-0.0639
0.25C	0.1In	±2.5	0.0795
	In	±2.5	0.3878
	Imax	±2.5	0.0396

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations	Verdict
		1#	
9	Frequency (*f*) measurements		P
	Ambient temperature: 23±2(℃)	21.8	
	Relative humidity: 40~60(%)	49.6	
	Frequency (*f*) measurement		
	Voltage: 50%Un~Umax	AC 400.0V	
	Current: 20%In~Imax	AC 5.0A	

Range of frequency: 45Hz~65Hz

Limits of error:≤±0.25Hz

Excitation value (Hz)	Show value (Hz)	Error (Hz)
45.000	44.99	-0.01
50.000	49.99	-0.01
55.000	54.99	-0.01
60.000	59.99	-0.01
65.000	64.99	-0.01

Test of temperature influence

Temperature coefficient (%/K):≤±0.05

Excitation value (Hz)	Show value (Hz)		Error (Hz)	Temperature coefficient (%/K)
	-25.0℃	-5.0℃		
45.000	44.96	44.98	0.04	0.002
50.000	49.97	49.98	0.02	0.001
55.000	54.96	54.98	0.04	0.002
60.000	59.96	59.97	0.02	0.001
65.000	64.97	64.98	0.02	0.001

Excitation value (Hz)	Show value (Hz)		Error (Hz)	Temperature coefficient (%/K)
	-5.0℃	+15.0℃		
45.000	44.98	44.99	0.02	0.001
50.000	49.98	49.99	0.02	0.001
55.000	54.98	54.99	0.02	0.001
60.000	59.97	59.99	0.03	0.002
65.000	64.98	64.99	0.02	0.009

Excitation value (Hz)	Show value (Hz)		Error (Hz)	Temperature coefficient (%/K)
	+15.0℃	+35.0℃		
45.000	44.99	44.99	0.00	0.000
50.000	49.99	49.99	0.00	0.000
55.000	54.99	54.99	0.00	0.000
60.000	59.99	59.99	0.00	0.000
65.000	64.99	64.99	0.00	0.000

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations	Verdict
		1#	

Frequency (*f*) measurements(continue)

Test of temperature influence

Temperature coefficient（%/K）:≤±0.05

Excitation value（Hz）	Show value（Hz）		Error（Hz）	Temperature coefficient（%/K）
	+35.0℃	+55.0℃		
45.000	44.99	44.98	-0.02	-0.001
50.000	49.99	49.98	-0.02	-0.001
55.000	54.99	54.98	-0.02	-0.001
60.000	59.99	59.98	-0.02	-0.001
65.000	64.99	64.98	-0.02	-0.001

Voltage influence

Range of frequency: 45Hz~65Hz
Limits of error:≤±0.5Hz

Voltage: 0.5Un= 200.0V

Excitation value（Hz）	Baseline error（Hz）	Show value（Hz）	Deviation（%）
45.000	44.99	44.99	0.00
50.000	49.99	49.99	0.00
55.000	54.99	54.99	0.00
60.000	59.99	59.99	0.00
65.000	64.99	64.99	0.00

Voltage: Umax= 480.0V

Excitation value（Hz）	Baseline error（Hz）	Show value（Hz）	Deviation（%）
45.000	44.99	44.99	0.00
50.000	49.99	49.99	0.00
55.000	54.99	54.99	0.00
60.000	59.99	59.99	0.00
65.000	64.99	64.99	0.00

Voltage: 0.5Un= 300.0V

Excitation value（Hz）	Baseline error（Hz）	Show value（Hz）	Deviation（%）
45.000	44.99	44.99	0.00
50.000	49.99	49.99	0.00
55.000	54.99	54.99	0.00
60.000	59.99	59.99	0.00
65.000	64.99	64.99	0.00

Voltage: Umax= 720.0V

Excitation value（Hz）	Baseline error（Hz）	Show value（Hz）	Deviation（%）
45.000	44.99	44.99	0.00
50.000	49.99	49.99	0.00
55.000	54.99	54.99	0.00
60.000	59.99	59.99	0.00
65.000	64.99	64.99	0.00

TEST REPORT

<table>
<tr><th>Series Number</th><th>Testing cases and requirements</th><th colspan="4">Test results or observations
1#</th><th>Verdict</th></tr>
<tr><td></td><td>Frequency (f) measurements(continue)

Harmonics in the voltage circuits
3rd harmonic 10%
5th harmonic 12%
7th harmonic 10%
9th harmonic 3%
11th harmonic 7%
13th harmonic 6%
15th harmonic 1%</td><td colspan="4">10%
12%
10%
3%
7%
6%
1%</td><td></td></tr>
<tr><td></td><td>Range of frequency: 45Hz~65Hz
Limits of error:≤±0.25Hz</td><td>Excitation value（Hz）</td><td>Baseline error（Hz）</td><td>Show value（Hz）</td><td>Deviation（%）</td><td></td></tr>
<tr><td></td><td></td><td>45.000</td><td>44.99</td><td>44.99</td><td>0.00</td><td></td></tr>
<tr><td></td><td></td><td>50.000</td><td>49.99</td><td>49.99</td><td>0.00</td><td></td></tr>
<tr><td></td><td></td><td>55.000</td><td>54.99</td><td>54.99</td><td>0.00</td><td></td></tr>
<tr><td></td><td></td><td>60.000</td><td>59.99</td><td>59.99</td><td>0.00</td><td></td></tr>
<tr><td></td><td></td><td>65.000</td><td>64.99</td><td>64.99</td><td>0.00</td><td></td></tr>
<tr><td>10</td><td>RMS phase current (I) and neutral current (I_N, I_{Nc}) measurements
RMS phase current (I) measurement
Range of current: 1A~6A
Current performance class: 0.5
Limits of error: ≤±0.5%</td><td>Channel</td><td>Excitation value（A）</td><td>Show value（A）</td><td>Error（%）</td><td>P</td></tr>
<tr><td></td><td></td><td rowspan="6">A</td><td>1.0000</td><td>1.000</td><td>0.00</td><td></td></tr>
<tr><td></td><td></td><td>2.0000</td><td>1.999</td><td>-0.05</td><td></td></tr>
<tr><td></td><td></td><td>3.0000</td><td>3.000</td><td>0.00</td><td></td></tr>
<tr><td></td><td></td><td>4.0000</td><td>3.999</td><td>-0.02</td><td></td></tr>
<tr><td></td><td></td><td>5.0000</td><td>4.999</td><td>-0.02</td><td></td></tr>
<tr><td></td><td></td><td>6.0000</td><td>5.999</td><td>-0.02</td><td></td></tr>
<tr><td></td><td></td><td rowspan="6">B</td><td>1.0000</td><td>0.999</td><td>-0.10</td><td></td></tr>
<tr><td></td><td></td><td>2.0000</td><td>2.000</td><td>0.00</td><td></td></tr>
<tr><td></td><td></td><td>3.0000</td><td>2.999</td><td>-0.03</td><td></td></tr>
<tr><td></td><td></td><td>4.0000</td><td>3.998</td><td>-0.05</td><td></td></tr>
<tr><td></td><td></td><td>5.0000</td><td>4.998</td><td>-0.04</td><td></td></tr>
<tr><td></td><td></td><td>6.0000</td><td>5.998</td><td>-0.03</td><td></td></tr>
<tr><td></td><td></td><td rowspan="6">C</td><td>1.0000</td><td>0.999</td><td>-0.10</td><td></td></tr>
<tr><td></td><td></td><td>2.0000</td><td>2.000</td><td>0.00</td><td></td></tr>
<tr><td></td><td></td><td>3.0000</td><td>3.000</td><td>0.00</td><td></td></tr>
<tr><td></td><td></td><td>4.0000</td><td>3.999</td><td>-0.02</td><td></td></tr>
<tr><td></td><td></td><td>5.0000</td><td>4.999</td><td>-0.02</td><td></td></tr>
<tr><td></td><td></td><td>6.0000</td><td>5.999</td><td>-0.02</td><td></td></tr>
</table>

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations	Verdict
		1#	

RMS phase current (I) and neutral current (I_N, I_{Nc}) measurements (continue)

Test of temperature influence

Temperature coefficient（%/K）:
≤±0.025

Channel	Excitation value（A）	Show value（A）		Temperature coefficient（%/K）
		-25.0℃	-5.0℃	
A	0.5000	0.496	0.497	0.010
	6.0000	5.995	5.997	0.002
B	0.5000	0.496	0.497	0.010
	6.0000	5.996	5.997	0.001
C	0.5000	0.495	0.497	0.020
	6.0000	5.996	5.997	0.001

Channel	Excitation value（A）	Show value（A）		Temperature coefficient（%/K）
		-5.0℃	+15.0℃	
A	0.5000	0.497	0.499	0.020
	6.0000	5.997	5.999	0.002
B	0.5000	0.497	0.499	0.020
	6.0000	5.997	5.999	0.002
C	0.5000	0.497	0.499	0.020
	6.0000	5.997	5.999	0.002

Channel	Excitation value（A）	Show value（A）		Temperature coefficient（%/K）
		+15.0℃	+35.0℃	
A	0.5000	0.499	0.499	0.000
	6.0000	5.999	5.999	0.000
B	0.5000	0.499	0.499	0.000
	6.0000	5.999	5.999	0.000
C	0.5000	0.499	0.499	0.000
	6.0000	5.999	5.999	0.000

Channel	Excitation value（A）	Show value（A）		Temperature coefficient（%/K）
		+35.0℃	+55.0℃	
A	0.5000	0.499	0.498	-0.010
	6.0000	5.999	5.998	-0.001
B	0.5000	0.499	0.498	-0.010
	6.0000	5.999	5.998	-0.001
C	0.5000	0.499	0.498	-0.010
	6.0000	5.999	5.998	-0.001

TEST REPORT

<table>
<tr><th>Series Number</th><th>Testing cases and requirements</th><th colspan="5">Test results or observations
1#</th><th>Verdict</th></tr>
<tr><td></td><td>RMS phase current (I) and neutral current (I_N, I_{Nc}) measurements (continue)

Auxiliary power voltage influence

Current performance class: 0.5
Variation limit: ≤±0.5%</td><td colspan="5">Auxiliary power voltage: 0.85Un= 187V
<table><tr><th>Channel</th><th>Current（A）</th><th>Baseline error（A）</th><th>Show value（A）</th><th>Deviation（%）</th></tr><tr><td>A</td><td>0.10In</td><td>0.499</td><td>0.499</td><td>0.00</td></tr><tr><td>B</td><td>0.10In</td><td>0.499</td><td>0.498</td><td>-0.20</td></tr><tr><td>C</td><td>0.10In</td><td>0.499</td><td>0.499</td><td>0.00</td></tr></table>Auxiliary power voltage: 1.15Un= 253V
<table><tr><th>Channel</th><th>Current（A）</th><th>Baseline error（A）</th><th>Show value（A）</th><th>Deviation（%）</th></tr><tr><td>A</td><td>0.10In</td><td>0.499</td><td>0.498</td><td>-0.20</td></tr><tr><td>B</td><td>0.10In</td><td>0.499</td><td>0.499</td><td>0.00</td></tr><tr><td>C</td><td>0.10In</td><td>0.499</td><td>0.498</td><td>-0.20</td></tr></table></td><td></td></tr>
<tr><td>11</td><td>RMS voltage (U) measurements
Range of voltage: 0V~480V
Voltage performance class: 0.5
Limits of error: ≤±0.5%</td><td colspan="5"><table><tr><th>Channel</th><th>Excitation value（V）</th><th>Show value（V）</th><th>Error（%）</th></tr><tr><td rowspan="8">A</td><td>0.00</td><td>0.0</td><td>0.00</td></tr><tr><td>80.00</td><td>79.9</td><td>-0.12</td></tr><tr><td>160.00</td><td>160.0</td><td>0.00</td></tr><tr><td>240.00</td><td>240.0</td><td>0.00</td></tr><tr><td>320.00</td><td>320.2</td><td>0.06</td></tr><tr><td>400.00</td><td>400.3</td><td>0.08</td></tr><tr><td>480.00</td><td>480.4</td><td>0.08</td></tr><tr><td rowspan="8">B</td><td>0.00</td><td>0.0</td><td>0.00</td></tr><tr><td>80.00</td><td>79.9</td><td>-0.12</td></tr><tr><td>160.00</td><td>160.0</td><td>0.00</td></tr><tr><td>240.00</td><td>240.0</td><td>0.00</td></tr><tr><td>320.00</td><td>320.1</td><td>0.03</td></tr><tr><td>400.00</td><td>400.3</td><td>0.08</td></tr><tr><td>480.00</td><td>480.6</td><td>0.13</td></tr><tr><td rowspan="8">C</td><td>0.00</td><td>0.0</td><td>0.00</td></tr><tr><td>80.00</td><td>80.0</td><td>0.00</td></tr><tr><td>160.00</td><td>160.0</td><td>0.00</td></tr><tr><td>240.00</td><td>240.0</td><td>0.00</td></tr><tr><td>320.00</td><td>320.2</td><td>0.06</td></tr><tr><td>400.00</td><td>400.4</td><td>0.10</td></tr><tr><td>480.00</td><td>480.5</td><td>0.10</td></tr></table></td><td>P</td></tr>
</table>

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations	Verdict
		1#	

RMS voltage (*U*) measurements(continue)

Range of voltage: 0V~828V
Voltage performance class: 0.5
Limits of error: ≤±0.5%

Channel	Excitation value（V）	Show value（V）	Error（%）
U_{AB}	0.00	0.0	0.00
	138.00	137.9	-0.07
	276.00	275.9	-0.04
	414.00	414.0	0.00
	552.00	552.0	0.00
	690.00	690.6	0.09
	828.00	828.7	0.08
U_{BC}	0.00	0.0	0.00
	138.00	137.9	-0.07
	276.00	275.9	-0.04
	414.00	413.8	-0.05
	552.00	551.9	-0.02
	690.00	690.9	0.13
	828.00	828.9	0.11
U_{CA}	0.00	0.0	0.00
	138.00	137.8	-0.14
	276.00	275.8	-0.07
	414.00	413.9	-0.02
	552.00	551.7	-0.05
	690.00	690.7	0.10
	828.00	828.5	0.06

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations	Verdict
		1#	

RMS voltage (*U*) measurements(continue)

Test of temperature influence

Temperature coefficient（%/K）:
≤±0.025

Channel	Excitation value（V）	Show value（V）		Temperature coefficient（%/K）
		-25.0℃	-5.0℃	
A	80.00	79.7	79.8	0.006
	480.00	479.4	479.7	0.003
B	80.00	79.6	79.7	0.006
	480.00	479.5	479.8	0.003
C	80.00	79.7	79.8	0.006
	480.00	479.5	479.8	0.003

Channel	Excitation value（V）	Show value（V）		Temperature coefficient（%/K）
		-5.0℃	+15.0℃	
A	80.00	79.8	79.9	0.006
	480.00	479.7	480.2	0.005
B	80.00	79.7	79.9	0.013
	480.00	479.8	480.2	0.004
C	80.00	79.8	79.9	0.006
	480.00	479.8	480.2	0.004

Channel	Excitation value（V）	Show value（V）		Temperature coefficient（%/K）
		+15.0℃	+35.0℃	
A	80.00	79.9	80.1	0.012
	480.00	480.2	480.3	0.001
B	80.00	79.9	80.0	0.006
	480.00	480.2	480.1	-0.001
C	80.00	79.9	80.0	0.006
	480.00	480.2	480.3	0.001

Channel	Excitation value（V）	Show value（V）		Temperature coefficient（%/K）
		+35.0℃	+55.0℃	
A	80.00	80.1	79.9	-0.012
	480.00	480.3	479.9	-0.004
B	80.00	80.0	79.8	-0.013
	480.00	480.1	479.9	-0.002
C	80.00	80.0	79.9	-0.006
	480.00	480.3	479.9	-0.004

TEST REPORT

<table>
<tr><th>Series Number</th><th>Testing cases and requirements</th><th colspan="5">Test results or observations
1#</th><th>Verdict</th></tr>
<tr><td></td><td>RMS voltage (U) measurements(continue)

Auxiliary power voltage influence

Voltage performance class: 0.5
Variation limit: ≤±0.05%</td><td colspan="5">Auxiliary power voltage: 0.85Un= 187V
<table><tr><th>Channel</th><th>Voltage (V)</th><th>Baseline error (V)</th><th>Show value (V)</th><th>Deviation (%)</th></tr><tr><td rowspan="2">A</td><td>80.00</td><td>79.9</td><td>79.9</td><td>0.00</td></tr><tr><td>480.00</td><td>480.4</td><td>480.3</td><td>-0.02</td></tr><tr><td rowspan="2">B</td><td>80.00</td><td>79.9</td><td>79.9</td><td>0.00</td></tr><tr><td>480.00</td><td>480.6</td><td>480.5</td><td>-0.02</td></tr><tr><td rowspan="2">C</td><td>80.00</td><td>80.0</td><td>80.0</td><td>0.00</td></tr><tr><td>480.00</td><td>480.5</td><td>480.5</td><td>0.00</td></tr></table>Auxiliary power voltage: 1.15Un= 253V
<table><tr><th>Channel</th><th>Voltage (V)</th><th>Baseline error (V)</th><th>Show value (V)</th><th>Deviation (%)</th></tr><tr><td rowspan="2">A</td><td>80.00</td><td>79.9</td><td>79.9</td><td>0.00</td></tr><tr><td>480.00</td><td>480.4</td><td>480.4</td><td>0.00</td></tr><tr><td rowspan="2">B</td><td>80.00</td><td>79.9</td><td>79.9</td><td>0.00</td></tr><tr><td>480.00</td><td>480.6</td><td>480.7</td><td>0.02</td></tr><tr><td rowspan="2">C</td><td>80.00</td><td>80.0</td><td>80.0</td><td>0.00</td></tr><tr><td>480.00</td><td>480.5</td><td>480.4</td><td>-0.02</td></tr></table></td><td></td></tr>
<tr><td>12</td><td>Power factor (PF_A, PF_V) measurements
Voltage: 50%Un~Umax
Current: 20%Ib~Imax
Range of angle: -90° ~ +90°
Limits of error: ≤±0.2%</td><td colspan="5">AC 400.0V
AC 5.0A
<table><tr><th>cosφ</th><th>Standard value</th><th>Show value</th><th>Error (%)</th></tr><tr><td>0L</td><td>0.0000</td><td>0.000</td><td>0.00</td></tr><tr><td>0.8L</td><td>0.8000</td><td>0.799</td><td>-0.10</td></tr><tr><td>0.707L</td><td>0.7071</td><td>0.707</td><td>-0.01</td></tr><tr><td>0.5L</td><td>0.5000</td><td>0.499</td><td>-0.10</td></tr><tr><td>1</td><td>1.0000</td><td>1.000</td><td>0.00</td></tr><tr><td>0.5C</td><td>0.5000</td><td>0.499</td><td>-0.10</td></tr><tr><td>0.707C</td><td>0.7071</td><td>0.707</td><td>-0.01</td></tr><tr><td>0.8C</td><td>0.8000</td><td>0.799</td><td>-0.10</td></tr><tr><td>0C</td><td>0.0000</td><td>0.000</td><td>0.00</td></tr></table></td><td>P</td></tr>
</table>

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations 1#	Verdict
13	Climatic tests (Dry heat test) The test shall be carried out according to IEC 60068-2-2, under the following conditions: PMD in non-operating condition; Temperature: +70℃±2℃ Duration of test: 16h After an appropriate recovering time after each climatic test, the PMD shall show no damage or change of the information and shall operate within its specifications.	 +70.0℃ 16h No damage or change of the information and operate within its specifications, pass	P
14	Climatic tests (Cold test) The test shall be carried out according to IEC 60068-2-1, under the following conditions: PMD in non-operating condition; Temperature: -40℃±3℃ Duration of test: 16h After an appropriate recovering time after each climatic test, the PMD shall show no damage or change of the information and shall operate within its specifications.	 -40.0℃ 16h No damage or change of the information and operate within its specifications, pass	P

TEST REPORT

Series Number	Testing cases and requirements	Test results or observations 1#	Verdict
15	EMC tests (Permanent AC magnetic induction of external origin 0,5 mT)		P
	Power frequency magnetic field immunity test		
	Ambient temperature: （℃）	19.8	
	Relative humidity: （%）	52.3	
	Relative position between the coil and test samples:	test samples in the center of the coil	
	Magnetic field strength: 30A/m	30	
	Relative position between sample and magnetic field direction:	X direction，Y direction，Z direction	
	Acceptance criteria A: The equipment shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the equipment is used as intended.	P	
16	EMC tests (Electromagnetic RF fields)		P
	Radio frequency electromagnetic field radiation immunity test		
	Ambient temperature: （℃）	19.8	
	Relative humidity: （%）	48.3	
	Interference field strength : 10V/m	10 V/m	
	Frequency range: 80MHz ~1GHz	80MHz ~1GHz	
	Interference field strength : 3V/m	3 V/m	
	Frequency range: 1.4GHz ~2GHz	1.4GHz ~2GHz	
	Interference field strength : 1V/m	1 V/m	
	Frequency range: 2GHz ~2.7GHz	2GHz ~2.7GHz	
	Antenna orientation: horizonal/vertical	Normal	
	Test sample orientation: front, back, left side, right side	Normal	
	Acceptance criteria A: The equipment shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the equipment is used as intended.	P	

TEST REPORT

<table>
<tr><th>Series Number</th><th>Testing cases and requirements</th><th colspan="5">Test results or observations
1#</th><th>Verdict</th></tr>
<tr><td></td><td>EMC tests (Electromagnetic RF fields) (continue)
Experimental errors affect the data:</td><td colspan="5"></td><td></td></tr>
<tr><td></td><td></td><td>cosφ</td><td>Incentive value（A）</td><td>Incentive value（V）</td><td>Error（%）</td><td>Error limit(%)</td><td></td></tr>
<tr><td></td><td></td><td>1</td><td>5.0000</td><td>220.0000</td><td>-0.0357</td><td>±0.5</td><td></td></tr>
<tr><td></td><td></td><td>1</td><td>4.9998</td><td>219.9998</td><td>-0.0308</td><td>±0.5</td><td></td></tr>
<tr><td></td><td></td><td>1</td><td>5.0001</td><td>220.0000</td><td>-0.00419</td><td>±0.5</td><td></td></tr>
<tr><td>17</td><td>EMC tests (Conducted disturbances, induced by radio frequency fields)

Conducted disturbance immunity test of RF field induction
Ambient temperature: （℃）
Relative humidity: （%）

Test level: 3V
Frequency range: 0.15~80（MHz）
Test position:
Acceptance criteria A:
The equipment shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the equipment is used as intended.
Experimental errors affect the data:</td><td colspan="5">

19.5
48.9

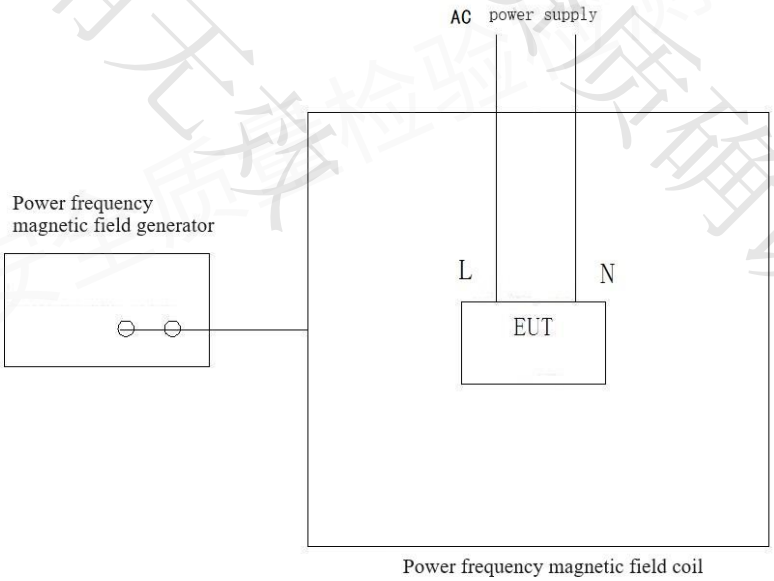
3V
0.15~80MHz
Power supply port, communication port

P</td><td>P</td></tr>
<tr><td></td><td></td><td>cosφ</td><td>Incentive value（A）</td><td>Incentive value（V）</td><td>Error（%）</td><td>Error limit(%)</td><td></td></tr>
<tr><td></td><td></td><td>1</td><td>5.0000</td><td>220.0001</td><td>-0.03750</td><td>±0.5</td><td></td></tr>
<tr><td></td><td></td><td>1</td><td>5.0001</td><td>220.0001</td><td>-0.02357</td><td>±0.5</td><td></td></tr>
<tr><td></td><td></td><td>1</td><td>4.9998</td><td>219.9998</td><td>-0.0367</td><td>±0.5</td><td></td></tr>
</table>

TEST REPORT

Photo of the Tested Sample(s)

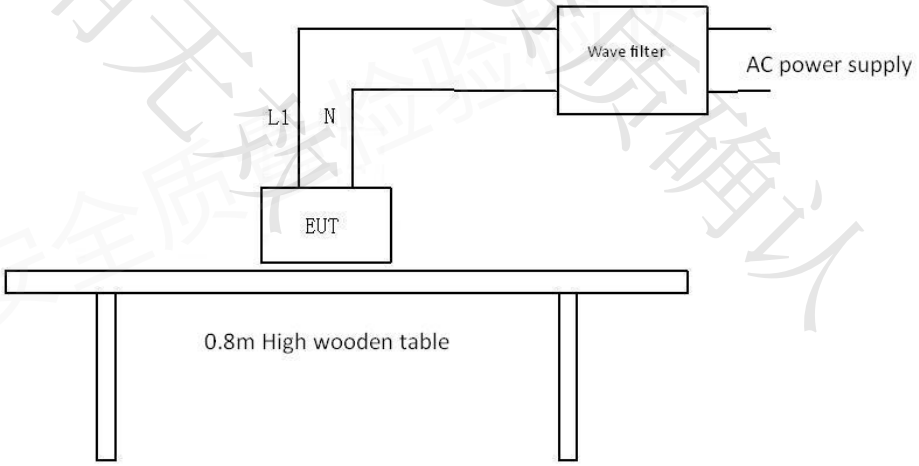
EMC tests (Permanent AC magnetic induction of external origin 0,5 mT)



TEST REPORT

Photo of the Tested Sample(s)

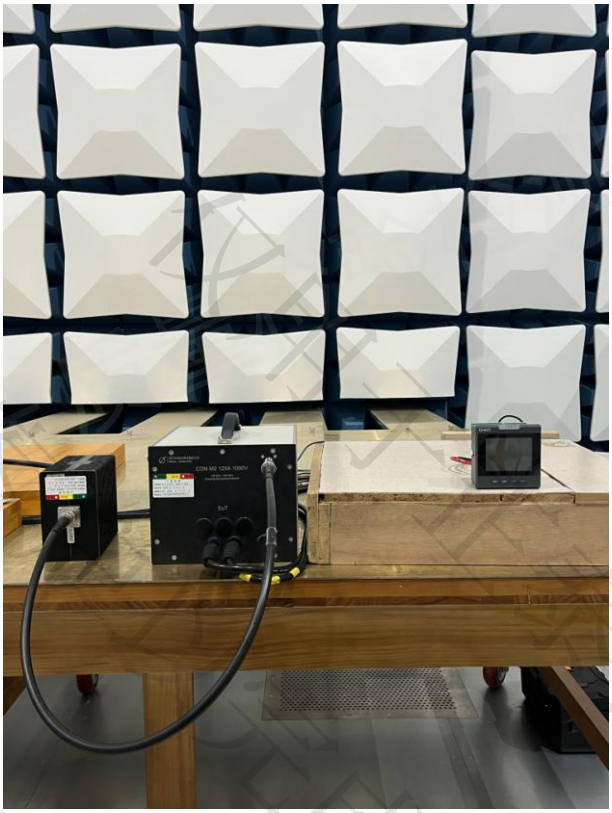
EMC tests (Electromagnetic RF fields)

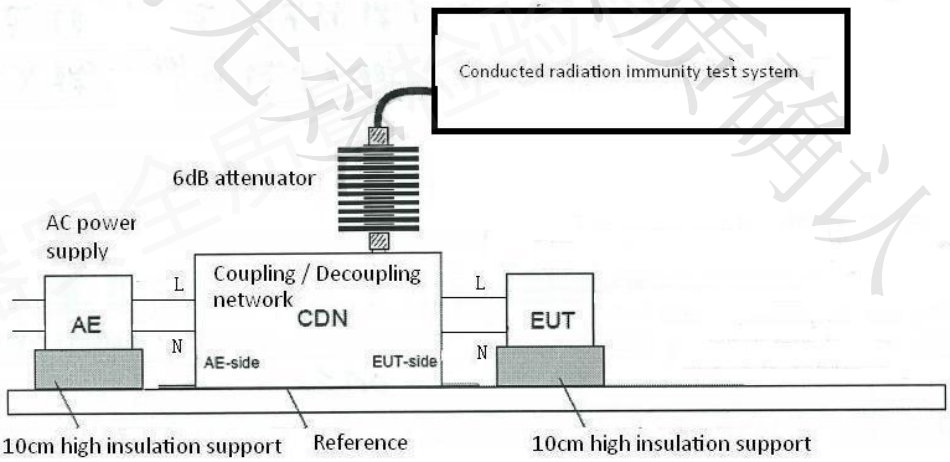


TEST REPORT

Photo of the Tested Sample(s)

EMC tests (Conducted disturbances, induced by radio frequency fields)





MAIN TEST EQUIPMENT LIST

No.	Name	Type	Equipment No.	Valid date	Use (√)
1	Temperature, Humidity, Pressure Recorder	DSR-THP	8247CB20B	2026-10-30	√
2	Intelligent Comprehensive Detection Device	KE9703	9297DA22A	2026-10-12	√
3	High-Power DC Regulated Power Supply	EXTH600U	7068DA24A	2026-12-14	√
4	Primary-Secondary Integration Complete Test System	FTT500-D	9963DA24A	2026-08-05	√
5	Digital Thermohygrometer and Barometer	testo 622	9696CB23B	2026-08-18	√
6	Power Frequency Magnetic Field Generator	SKS-0805	8689CA14A	2026-07-08	√
7	Field Strength Probe	LSProbe2.0	9619-14DA23A	2026-12-05	√
8	10m Anechoic Chamber (FAR)	10mSAC	9687DA23A	2028-12-12	√
9	Signal Source	SMCV100B	9619-9DA23A	2026-12-01	√
10	Signal Source	SMB100A	9619DA23A	2026-12-01	√
11	Power Amplifier	NTWPA-0081020001000E	9647DA23A	2026-12-07	√
12	Power Amplifier	NTWPA-1060200P	9648DA23A	2026-12-07	√
13	Power Meter and Probe	NRP6AN	9619-10DA23A	2026-12-01	√
14	Power Meter and Probe	NRP18TN	9619-2DA23A	2026-12-01	√
15	Transmit Antenna	STLP9128E	9619-15DA23A	2026-12-01	√
16	Transmit Antenna 2	STLP9149	9649DA23A	2026-12-01	√
17	Digital Thermohygrometer and Barometer	testo 622	9697CB23B	2026-08-18	√
18	Power Amplifier	NTWPA-4k04200	9643DA23A	2026-12-07	√
19	Coupling/Decoupling Network	CDNM2125A1000V	9619-3DA23A	2026-12-01	√

MAIN TEST EQUIPMENT LIST

No.	Name	Type	Equipment No.	Valid date	Use (√)
20	EM Clamp	KEMZ 801A	8618-3CA14A	2026-10-12	√
21	3m Anechoic Chamber (SAR)	FAC-3m	9688DA23A	2028-12-14	√
22	AC Energy Meter Calibration Equipment (with Anti-interference Performance)	DK-51C3	7283DA26A	2026-12-08	√

TEST REPORT END