

EMC Test Report

Report No.: AGC04094200301EE01

PRODUCT DESIGNATION		fast wall charger dual output with quick charge
BRAND NAME		N/A
MODEL NAME	:	P301.063
APPLICANT	:	Xindao B.V.
DATE OF ISSUE		Apr. 09, 2020
STANDARD(S)	3	EN 55032:2015/AC:2016 EN61000-3-2:2019 EN61000-3-3:2013/A1:2019 EN 55035:2017
REPORT VERSION		V1.0

Attestation of Global Compliance(Shenzhen) Co., Ltd



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	691	Apr. 09, 2020	Valid	Initial release





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	APPENDIX B: PHOTOGRAPHS OF EUT	





1 VERIFICATION OF CONFORMITY

Applicant	Xindao B.V.
Address	P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands
Manufacturer	Xindao B.V.
Address	P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands
Factory	Xindao B.V.
Address	P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands
Product Designation	fast wall charger dual output with quick charge
Brand Name	N/A
Test Model	P301.063
Date of test	Mar. 18, 2020 to Apr. 09, 2020
Deviation	None any deviation from the test method.
Condition of Test Sample	Normal
Test Result	Pass

The above equipment was tested by Attestation of Global Compliance(Shenzhen) Co., Ltd. for compliance with the requirements set forth in the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Prepared By

Faler. Yang

Faler Yang(Yang Feiyue) Project Engineer

Apr. 09, 2020

Reviewed By

3vvK. Jang

Erik Yang(Yang Jianmin) Reviewer

Apr. 09, 2020

Approved By

Formestics

Forrest Lei(Lei Yonggang) Authorized Officer

Apr. 09, 2020





2 SYSTEM DESCRIPTION

TEST MODE DESCRIPTION					
NO.	TEST MODE DESCRIPTION	WORST			
1	PD DC 12V1.5A	V			
2	PD DC 9V2A				
3	PD DC 5V3A	G ZG			
4	USB DC 5V2.4A				

Note:

1. V means EMI worst mode.

2. Only worst mode data recorded in the test report.

3MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by ISO.

- Uncertainty of Conducted Emission, Uc = ±3.1dB
- Uncertainty of Radiated Emission, $Uc = \pm 4.0 dB$





4 PRODUCT INFORMATION

Housing Type	Plastic and metal	
EUT Input Rating	AC 100-240V 50/60Hz	8
EUT Output Rating	USB:DC 5V 2.4A Max PD:DC5V3A/9V2A/12V1.5A Total Power: 30W Max	ACC N
Highest internal frequency	Less than 108MHz	6

I/O Port Information (Applicable Not Applicable)

I/O Port of EUT						
I/O Port Type	Number	Cable Description	Tested With			
AC IN	1	2 - C	1			
USB		o	1			
PD	o 1	· · · · ·	1			





5 SUPPORT EQUIPMENT

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
Resistor	.0-	· · ·	- ~		0.8m unshielded
Multimeter			· -		0.8m unshielded
Voltage Regulating Circuit Board		- P		<u> </u>	-





6 TEST FACILITY

Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China

7 TEST EQUIPMENT LIST

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESPI	101206	Jun. 12, 2019	Jun. 11, 2020
LISN	R&S	ESH2-Z5	100086	Aug. 26, 2019	Aug. 25, 2020
Test software	R&S	ES-K1(Ver.V1.7. 1)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESCI	10096	Jun.12, 2019	Jun. 11, 2020
Antenna	SCHWARZBEC K	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
Test software	Tonscend	JS32-RE (Ver. 2.5)	N/A	N/A	N/A

TEST EQUIPMENT OF POWER HARMONICS / VOLTAGE FLUCTUATION / FLICKER

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due	
Signal Conditioning Unit	Schaffner	CCN1000-1	72431	Aug. 26, 2019	Aug. 25, 2020	
AC Source	Schaffner	NSG1007	56825	Aug. 26, 2019	Aug. 25, 2020	

TEST EQUIPMENT OF SURGE/EFT/DIPSTEST

Equipment	Manufacturer	Model	Model S/N		Cal. Due
EFTSurge Generator	Schaffner	Modula 6150	34437	Aug. 26, 2019	Aug. 25, 2020



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TEST EQUIPMENT OF ESD TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
ESD Simulator	EM Test	dito	P1527160053	Oct. 24, 2019	Oct. 23, 2020

TEST EQUIPMENT OF RS IMMUNITY TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Signal Generator	R&S	E4421B	MY43351603	Jun. 12, 2019	Jun. 11, 2020
Power Sensor	R&S	URV5-Z4	100124	May 17, 2019	May 16, 2020
Power Meter	R&S	NRVD	8323781027	May 17, 2019	May 16, 2020
Power Amplifier	KALMUS	7100LC	04-02/17-06-00 1	Jun.12, 2019	Jun.11, 2020
Power Amplifier	Milmega	AS0104-55_55	1004793	Jun.12, 2019	Jun.11, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 17, 2019	May 16, 2021
Antenna	SCHWARZBEC K	VULB9168	D69250	Jan. 09, 2019	Jan. 08, 2021
Power Amplifier	rflight	NTWPA-256010 0	17063183	Oct.15, 2019	Oct.14, 2020
Broadband High Gain Horn Antenna	SCHWARZBEC K	BBHA 9120 J	00073	Sep.27, 2019	Sep.26, 2021

TEST EQUIPMENT OF CS IMMUNITY TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due	
Power Amplifier	AR	75A250	18464 Jun. 12, 2019		Jun. 11, 2020	
CDN	ZHINAN	ZN3751	15004	Sep. 09, 2019	Sep. 08, 2020	
6dB attenuator	ZHINAN	E-002	N/A	Sep. 09, 2019	Sep. 08, 2020	
Power Sensor	R&S	URV5-Z4	100124	May 17, 2019	May 16, 2020	
Power Meter	R&S	NRVD	8323781027	May 17, 2019	May 16, 2020	
Signal Generator	R&S	E4421B	MY43351603	Jun. 12, 2019	Jun. 11, 2020	



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8 TESTSUMMARY LSIT

Test item	Test Requirement	Test Method	Class/Severity	Result
CONDUCTED EMISSION	EN 55032	EN 55032	Class B	Pass
RADIATED EMISSION	EN 55032	EN 55032	Class B	Pass
Harmonic current emission	EN 61000-3-2	EN 61000-3-2	Class A	N/A
Voltage fluctuations & flicker	EN 61000-3-3	EN 61000-3-3	§5 of EN 61000-3-3	Pass
Electrostatic Discharge Immunity	EN 55035	EN 61000-4-2	\pm 8.0 kV (Air Discharge) \pm 4.0 kV (Contact Discharge) \pm 4.0 kV (Indirect Discharge)	Pass
Radiated RF Electromagnetic	EN 55035	EN 61000-4-3	3V/m with 80% AM. 1kHz Modulation.	Pass
Electrical fast transient/burst Immunity	EN 55035	EN 61000-4-4	+/- 1kV for Power Supply Lines	Pass
SURGE IMMUNITY	EN 55035	EN 61000-4-5	+/- 1kV (Line to Line) +/- 2kV (Line to Ground)	Pass
Immunity to Conducted Disturbances Induced by RF fields	EN 55035	EN 61000-4-6	3V(0.15MHz-10MHz) 3V-1V(10MHz-30MHz) 1V(30MHz-80MHz) with 80% AM. 1 kHz Modulation	Pass
Power frequency magnetic field	EN 55035	EN 61000-4-8	1A/m 50Hz or 60Hz	N/A
Voltage dips and short interruptions immunity	EN 55035	EN 61000-4-11	Odegrees	Pass

Note : N/A means not applicable.





9 EN 55032 LINE CONDUCTED EMISSION TEST

9.1 LIMITS OF LINE CONDUCTED EMISSION TEST

AT AC MAINS POWER PORT

F actorian and	Maximum RF Line Voltage					
Frequency	Q.P.(dBuV)	Average(dBuV)				
150kHz-500kHz	66-56	56-46				
500kHz-5MHz	56	46				
5MHz-30MHz	60	50				

Note:

1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

9.2 BLOCK DIAGRAM OF TEST SETUP







9.3 PROCEDURE OF LINE CONDUCTED EMISSION TEST

- (1)The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per EN55032 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 10cm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per EN55032.
- (3) All I/O cables were positioned to simulate typical actual usage as per EN55032.
- (4) The EUT received AC 230V/50Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- (5) All support equipments received power from a second LISN supplying power of AC230V and 110V/50Hz, if any.
- (6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- (7) Analyzer / Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- (8) During the above scans, the emissions were maximized by cable manipulation.
- (9) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions.
- (10) Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.





9.4 TEST RESULT OF LINE CONDUCTED EMISSION TEST



LINE CONDUCTED EMISSION TEST-L

MEASUREMENT RESULT:

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.182000	50.20	11.3	64	14.2	OP	г1	FLO
0.218000	45.40	11.3	63	17.5	OP	 L1	FLO
0.422000	45.80	11.3	57	11.6	OP	L1	FLO
0.486000	46.70	11.3	56	9.5	OP	L1	FLO
0.886000	39.10	11.3	56	16.9	OP	L1	FLO
1.174000	38.90	11.3	56	17.1	QP	L1	FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.182000 0.270000 0.418000 0.482000 0.582000 0.870000	41.30 37.10 34.80 36.80 30.80 32.40	11.3 11.3 11.3 11.3 11.3 11.3 11.3	54 51 48 46 46 46	13.1 14.0 12.7 9.5 15.2 13.6	AV AV AV AV AV AV	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO

RESULT: PASS





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MEASUREMENT RESULT:

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.174000	48.70	11.3	65	16.1	QP	Ν	FLO
0.474000	49.70	11.3	56	6.7	QP	Ν	FLO
0.518000	47.40	11.3	56	8.6	QP	N	FLO
0.810000	42.50	11.3	56	13.5	QP	Ν	FLO
1.118000	40.20	11.3	56	15.8	QP	Ν	FLO
2.194000	39.10	11.3	56	16.9	QP	Ν	FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.182000	41.40	11.3	54	13.0	AV	Ν	FLO
0.226000	39.60	11.3	53	13.0	AV	N	FLO
0.470000	42.30	11.3	47	4.2	AV	N	FLO
0.518000	40.10	11.3	46	5.9	AV	N	FLO
0.814000	35.70	11.3	46	10.3	AV	N	FLO
1.118000	33.60	11.3	46	12.4	AV	N	FLO

RESULT: PASS



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10 EN 55032 RADIATED EMISSION TEST

10.1 LIMITS OF RADIATED DISTURBANCES

Limits for radiated disturbance 30M to1 GHz at a measurement distance of 3 m

Frequency range (MHz)	Quasi peak limits(dBuV/m), for Class B ITE, at 3m measurement distance
30 - 230	40
230 - 1000	47

Limits for radiated disturbance above 1 GHz at a measurement distance of 3 m

Frequency range (MHz)	Limits (dBuV/m), Class B ITE				
	Peak	Average			
1000-3000	70	50			
3000-6000	74	54			

Notes:

1. The lower limit shall apply at the transition frequency.

2. Additional provisions may be required for cases where interference occurs.

10.2 BLOCK DIAGRAM OF TEST SETUP

System Diagram of Connections between EUT and Simulators





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10.3 PROCEDURE OF RADIATED EMISSION TEST

- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per EN 55032 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 10cm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per EN 55032.
- (3) All I/O cables were positioned to simulate typical actual usage as per EN 55032.
- (4) The EUT was discharged from resistor. .
- (5) The antenna was placed at 3 meter away from the EUT as stated in EN 55032. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
- (6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- (7) The test mode(s) were scanned during the test:
- (8) Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and Q.P./Peak reading is presented.





10.4 TEST RESULT OF RADIATED EMISSION TEST



Radiated Emission Test at 3m Distance-Horizontal

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	·	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		47.7833	9.11	19.81	28.92	40.00	-11.08	peak			
2		96.2833	12.88	15.63	28.51	40.00	-11.49	peak			
3		536.0167	1.36	25.70	27.06	47.00	-19.94	peak			
4		655.6500	1.59	27.62	29.21	47.00	-17.79	peak			
5		812.4667	2.02	30.57	32.59	47.00	-14.41	peak			
6	*	975.7500	3.74	32.35	36.09	47.00	-10.91	peak			

RESULT: PASS





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No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	47.7833	15.22	19.81	35.03	40.00	-4.97	peak			
2	ļ	60.7167	15.71	18.74	34.45	40.00	-5.55	peak			
3		96.2833	14.59	15.63	30.22	40.00	-9.78	peak			
4		291.9000	12.32	19.66	31.98	47.00	-15.02	peak			
5		828.6332	5.11	30.78	35.89	47.00	-11.11	peak			
6		983.8333	2.81	32.42	35.23	47.00	-11.77	peak			

RESULT: PASS





11 EN 61000-3-2 POWER HARMONICS TEST

POWER HARMONICS MEASUREMENT

Port	AC mains
Basic Standard	EN 61000-3-2
Limits	⊠CLASS A ;□CLASS B; □CLASS C; □CLASS D
Tester	Erik
Temperature	25°C
Humidity	55%

11.1 BLOCK DIAGRAM OF TEST SETUP



11.2 RESULT

Note: Owning to the power of EUT is less than 75W, so test is not applicable.





12 EN 61000-3-3 VOLTAGE FLUCTUATION / FLICKER TEST

VOLTAGE FLUCTUATION/FLICKER MEASUREMENT

Port	AC mains
Basic Standard	EN 61000-3-3
Limits	§5 of EN 61000-3-3
Tester:	Faler
Temperature	25°C
Humidity	55%

12.1 BLOCK DIAGRAM OF TEST SETUP





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12.2 RESULT

Flicker Test Summary per EN/IEC61000-3-3 (Run time)



Test Result: Pass

Psti and limit line

Status: Test Completed European Limits



Plt and limit line



Parameter values recorded during the test:

Vrms at the end of test (Volt):	230.78	
Highest dt (%):	0.00	
Time(mS) >dt:	0.0	
Highest dc (%):	0.00	
Highest dmax (%):	0.00	
Highest Pst (10 min. period):	0.160	
Highest Plt (2 hr. period):	0.070	

Test limit (%):	3.30	Pass
Test limit (mS):	500.0	Pass
Test limit (%):	3.30	Pass
Test limit (%):	4.00	Pass
Test limit:	1.000	Pass
Test limit:	0.650	Pass





13EN 61000-4-2 ESD IMMUNITY TEST

ELECTROSTATIC DISCHARGE (ESD) IMMUNITY TEST

Port	Enclosure
Basic Standard	EN 61000-4-2
Test Level	± 8.0 kV (Air Discharge) ± 4.0 kV (Contact Discharge) ± 4.0 kV (Indirect Discharge)
Standard require	В
Tester	Faler
Temperature	22.4°C
Humidity	57.2%

13.1 BLOCK DIAGRAM OF TEST SETUP

(The 470 k ohm resistors are installed per standard requirement)



Ground Reference Plane





13.2 TEST PROCEDURE

The test procedure shall be in accordance with EN 61000-4-2. Electrostatic discharges shall be applied only to points and surfaces of the EUT which are expected to be touched during normal operation, including user access operations specified in the user manual, for example cleaning or adding consumables when the EUT is powered. The application of discharges to the contacts of open connectors is not required.

The number of test points is EUT dependent. Sub clause 8.3.1 and Clause A.5 of EN 61000-4-2 shall be taken into consideration when selecting test points, paying particular attention to keyboards, dialling pads, power switches, mice, drive slots, card slots, the areas around communication ports, etc.

When applying direct discharges to a portable or handheld battery-powered EUT with a display screen, it may not be possible to observe the screen for a given EUT orientation. If observation of the screen is necessary during this test, the EUT may be mounted vertically using non-metallic supports.

Note: As per the A2 to EN 61000-4-2, a bleed resistor cable is connected between the EUT and HCPduring the test.

Voltage	Coupling	Test Performance	Result
±4kV	Contact Discharge	No function loss	A
±4kV	Indirect Discharge HCP (Front)	No function loss	A
±4kV	Indirect Discharge HCP (Left)	No function loss	A
±4kV	Indirect Discharge HCP (Back)	No function loss	A
±4kV	Indirect Discharge HCP (Right)	No function loss	A
±4kV	Indirect Discharge VCP (Front)	No function loss	A
±4kV	Indirect Discharge VCP (Left)	No function loss	A
±4kV	Indirect Discharge VCP (Back)	No function loss	A
±4kV	Indirect Discharge VCP (Right)	No function loss	A
±8kV	Air Discharge	No function loss	А

The electrostatic discharges were applied as follows:





13.3 PERFORMANCE & RESULT

Criteria A:	The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
Criteria B:	The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
Criteria C:	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

FAIL

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14EN 61000-4-3 RS IMMUNITY TEST

RADIATED ELECTROMAGNETIC FIELD IMMUNITY TEST

Port	Enclosure
Basic Standard	EN 61000-4-3
Test Level:	3V/m with 80% AM. 1kHz Modulation.
Standard require	A
Tester	Faler
Temperature	24.4°C
Humidity	57.8%

14.1 BLOCK DIAGRAM OF TEST SETUP





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14.2 TEST PROCEDURE

The EUT was located at the edge of supporting table keep 3 meter away from transmitting antenna, it just the calibrated square area of field uniformity. The support units were located outside of the uniformity area, but the cable(s) connected with EUT were exposed to the calibrated field as per EN 61000-4-3.

EUT worked with resistance load, and make sure EUT worked normally.

Setting the testing parameters of RS test software per EN 61000-4-3.

Performing the test at each side of with specified level (3V/m) at 1% steps and test frequency from 80MHz to 1000MHz

Recording the test result in following table.

EN 61000-4-3 Final test conditions:

Test level: 3V/m

Steps: 1 % of fundamental

Dwell Time: 1 sec

Range (MHz)	Field	Modulation	Polarity	Position	Test Performance	Result
80-1000	3V/m	AM	H/V	Front	No function loss	A
80-1000	3V/m	AM	H/V	Left	No function loss	А
80-1000	3V/m	AM	H/V	Back	No function loss	A
80-1000	3V/m	AM	H/V	Right	No function loss	A
1800,2600, 3500,5000	3V/m	AM	H/V	Front	No function loss	A
1800,2600, 3500,5000	3V/m	AM	H/V	Left	No function loss	A
1800,2600, 3500,5000	3V/m	AM	H/V	Back	No function loss	A
1800,2600, 3500,5000	3V/m	AM	H/V	Right	No function loss	А

Frequency (±1 %) for Spot test.

14.3 PERFORMANCE & RESULT

Criteria A:	The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
Criteria B:	The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
Criteria C:	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

⊠PASS

FAIL



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15EN 61000-4-4 EFT IMMUNITY TEST

ELECTRICAL FAST TRANSIENTS/BURST IMMUNITY TEST

Port	On Power Supply Lines
Basic Standard	EN 61000-4-4
Test Level	+/- 1kV for Power Supply Lines
Standard require	В
Tester	Faler
Temperature	22.3°C
Humidity	58.0%

15.1 BLOCK DIAGRAM OF TEST SETUP

				EUT	Support Units	
AC	EFT/Burst/Surge Generator	200	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Non-Cc	onductive Table	
200	Controller Comp	uter				





15.2 TEST PROCEDURE

The EUT and support units were located on a wooden table 0.8m away from ground reference plane. A 1.0 meter long power cord was attached to EUT during the test.

The length of communication cable between communication port and clamp was keeping within 1 meter. EUT worked with resistance load, and make sure EUT worked normally.

Related peripherals work during the test.

Recording the test result as shown in following table.

Test conditions:

Impulse Frequency: 5kHz Tr/Th: 5/50ns

Burst Duration: 15ms

Burst Period: 300ms

Inject Line	Voltage kV	Inject Method	Test Performance	Result
L+N	+/- 1	Direct	No function loss	A

15.3 PERFORMANCE & RESULT

Criteria A:	The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
Criteria B:	The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
Criteria C:	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

⊘PASS □FAIL



16EN 61000-4-5 SURGE IMMUNITY TEST

SURGE IMMUNITY TES		
Port	On Power Supply Lines	
Basic Standard	EN 61000-4-5	
Requirements	+/- 1kV (Line to Line)	
Standard require	В	
Tester	Faler	6
Temperature	22.3°C	
Humidity	58.0%	

16.1 BLOCK DIAGRAM OF TEST SETUP







16.2 TEST PROCEDURE

The EUT and support units were located on a wooden table 0.8 m away from ground floor. EUT worked with resistance load, and make sure EUT worked normally.

Recording the test result as shown in following table.

Test conditions:

Voltage Waveform	1.2/50 <i>u</i> s	- 0	8	
Current Waveform	8/20 <i>u</i> s	20-	~ GO	(
Polarity	Positive/Negative	©		NO
Phase angle	90°,270°	-,0	°.	0
Number of Test	5		C	20

Coupling Line	Voltage (kV)	Polarity	Coupling Method	Test Performance	Result
L1-N	1	Positive	Capacitive	No function loss	A
L1-N	C 1	Negative	Capacitive	No function loss	A

16.3 PERFORMANCE & RESULT

Criteria A:	The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
Criteria B:	The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
Criteria C:	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

⊠PASS □

FAIL





17EN 61000-4-6 CS IMMUNITY TEST

Port	On Power Supply Lines
Basic Standard	EN 61000-4-6
Requirements	3V(0.15MHz-10MHz) 3V-1V(10MHz-30MHz) 1V(30MHz-80MHz) with 80% AM. 1 kHz Modulation
Standard require	A
Tester	Faler
Temperature	22.5°C
Humidity	57.6%

17.1 BLOCK DIAGRAM OF TEST SETUP



Ground Reference Plane





17.2 TEST PROCEDURE

The EUT and support units were located at a ground reference plane with the interposition of a 0.1 m thickness insulating support and the CDN was located on GRP directly.

EUT worked with resistance load, and make sure EUT worked normally.

Related peripherals work during the test.

Setting the testing parameters of CS test software per EN 61000-4-6.

Recording the test result in following table.

Test conditions:						
Frequency Range	0.15MHz-80MHz	G	- CŪ	0		
Frequency Step	1% of fundamental	0		200	200	°
Dwell Time	3 sec	Ģ	©	6		N

Range (MHz)	Strength	Modulation	Result
0.15-10	3V	AM	A
10-30	3V-1V	AM	A
30-80	1V	AM	A

17.3 PERFORMANCE & RESULT

Criteria A:	The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may the replaced by a permissible loss of performance.		
Criteria B:	The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.		
Criteria C:	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.		

PASS

FAIL





18EN 61000-4-11 DIPS IMMUNITY TEST

VOLTAGE DIPS, SHORT INTERRUPTIONS AND VOLTAGE VARIATIONS IMMUNITY TEST

Port	On Power Supply Lines
Basic Standard	EN 61000-4-11
Requirements	Odegrees
Test Interval	Min. 10 sec.
Tester	Faler
Temperature	24.3°C
Humidity	58.0%

	Test Level % U _T	Reduction (%)	Duration (periods)	Performance Criteria
Voltage Dips	<5	>95	0.5	В
	70	30	25	С

Voltage	Test Level	Reduction	Duration	Performance
	% U _T	(%)	(periods)	Criteria
Interruptions	<5	>95	250	C C o

18.1 BLOCK DIAGRAM OF TEST SETUP



Controller Computer



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18.2 TEST PROCEDURE

The EUT and support units were located on a wooden table, 0.8 m away from ground floor. EUT worked with resistance load, and make sure EUT worked normally.

Setting the parameter of tests and then perform the test software of test simulator.

Conditions changes to occur at 0 degree crossover point of the voltage waveform.

Recording the test result in test record form.

Test conditions:

The duration with a sequence of three dips/interruptions with interval of 10 s minimum (Between each test event)

Voltage Dips:

Test Level % U _T	Reduction (%)	Duration (periods)	Observation	Performance Result
<5	>95	0.5	Normal	A
70	30	25	Normal	A

Voltage Interruptions:

Test Level	Reduction	Duration	Observation	Performance
% U _T	(%)	(periods)		Result
<5	>95	250	The EUT Stopped charging during the test, but it can be recovered automatically after test.	В

18.3INTERPRETATION

Criteria A:	The apparatus continues to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance.
Criteria B:	The apparatus continues to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. In some cases the performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.
Criteria C:	Temporary loss of function is allowed, provided the functions self recoverable or can be restored by the operation of controls.

PASS [FAIL





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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

EN 55032 CONDUCTED EMISSION TEST SETUP



EN 55032 RADIATED EMISSION TESTSETUP







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EN 61000-3-3 VOLTAGE FLUCTUATION / FLICKER TEST

EN 61000-4-2 ESD IMMUNITY TEST SETUP







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EN 61000-4-3 RS IMMUNITY TEST SETUP

EN 61000-4-4/-5/-11 EFT/SURGE/DIPSIMMUNITY TEST SETUP







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EN 61000-4-6 CS IMMUNITY TEST SETUP







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APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OFEUT





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FRONT VIEW OFEUT



BACK VIEW OFEUT







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LEFT VIEW OFEUT



RIGHT VIEW OFEUT





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INTERNAL VIEW OF EUT-1







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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3







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INTERNAL VIEW OF EUT-4

----END OF REPORT----

