

Test Data Report

TDR-yymmddWrr

Type Name

Model Number

Tested by: _____

Date: yyyy-mm-dd

Reviewed by: _____

Date: yyyy-mm-dd

Assist CE Inc.

101, 1-7-9, Omorihoncho, Ota-ku, Tokyo
143-0011 Japan
tel: 03-4405-5112



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General notes on tests**Form A1****1 of 1****Equipment under test**

Type name
Model number
Manufacturer name
Manufacturer address

EUT Specifications

Environments cc.c °C, hh %, aaaa hpa
Marked ratings AC 200V ± 10% Single Phase, 50/60Hz, 120/100W
Operation mode A: Continuous, B: 60 Sec operating time/ 90 sec downtime
Protection class I
IP code IPXX
Pollution degree 2
Note

Test Conditions

Test location Assist CE Inc.
101, 1-9-7, Omorihoncho, Ota-ku, Tokyo 143-0011 Japan
Reference standard Accordance with Cl.XX in ENXXXXXXXX

Power input measurement

Form B1
1 of 1

Description	Accordance with Cl.xx in EN xxxxx
EUT Specifications	
Marked ratings	AC 200V ± 10% Single Phase, 50/60Hz, 120/100W
Operation mode	A: Continuous, B: 60 Sec operating time/ 90 sec downtime
Test Conditions	
Environments	cc.c °C, hh %, aaaa hPa
Input Voltage	AC 200V, 50Hz
Measurement Method	Power Meter
Measurement Points	Following table
Measurement time	1 min

No.	Input Voltage [V]	Frequency [Hz]	Current [A]	Apparent Power [VA]	Power Consumption [W]	Note
1	180	50				
2	200	50				
3	220	50				
4	180	60				
5	200	60				
6	220	60				

Item	Equipment/Model, Manufacturer	Serial No.	Calibration Due	Note
1	Power Meter / 3334, HIOKI	170348877	2018-05	PM1
	Date	yyyy-mm-dd	Tested by	S. Watanabe

Sound pressure measurement

Form D1
1 of 2

Description	Accordance with Cl.xx in EN xxxxx
EUT Specifications	
Marked ratings	AC 200V ± 10% Single Phase, 50/60Hz, 120/100W
Operation mode	A: Continuous, B: 60 Sec operating time/ 90 sec downtime
Test Conditions	
Environments	cc.c °C, hh %, aaaa hPa
Input Voltage	AC 200V, 50Hz
Test Method	Sound level meter
Measurement Points	Following figure and table
Measurement distance	1 m from surface of EUT
Measurement height	1.6 m
Measurement time	120 s

No.	Measurement Point	Operation mode	Input Voltage [V]	Input Frequency [Hz]	L _A [dB(A)]	L _{Cpk} [dB]
1	A	A	220	60		
2	B	A	220	60		
3	C	A	220	60		
4	D	A	220	60		

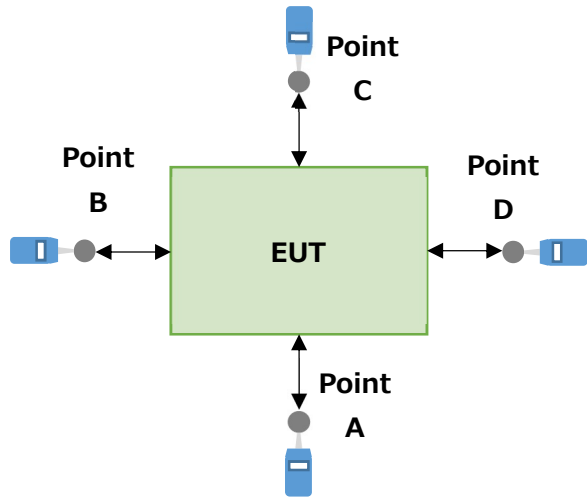
Note:

 L_A: A-weighted emission sound pressure level

 L_{Cpk}: The peak C weighted instantaneous sound pressure level

Sound pressure measurement

**Form D1
2 of 2**



[photo]

Item	Equipment/Model, Manufacturer	Serial No.	Calibration Due	Note
1	Sound Level Meter / NL52EX, RION	932279	2017-11	SL1
	Date	yyyy-mm-dd	Tested by	S. Watanabe

Leakage current measurement

Form E1
1 of 2

Description	Accordance with Cl.xx in EN xxxxx
EUT Specifications	
Marked ratings	AC 200V ± 10% Single Phase, 50/60Hz, 120/100W
Operation mode	A: Continuous, B: 60 Sec operating time/ 90 sec downtime
Test Conditions	
Environments	cc.c °C, hh %, aaaa hPa
Input Voltage	AC 200V
Input Frequency	50Hz
L-N condition	Normal / Reverse
Abnormal condition	—: (Normal), A: Open PE
Measurement Method	Leakage Current Meter / Current Clamp (ground current)
Measurement Points	Following table
Measurement time	1 min

No.	Measurement Point	Test Condition				Measured [mA]
		Input Voltage [V]	Input Frequency [Hz]	L-N Condition	Abnormal Condition	
1	Mains earth	220	60	Normal	—	
2	Mains earth	220	60	Reverse	—	
3	Enclosure	220	60	Normal	—	
4	Enclosure	220	60	Reverse	—	
5	Enclosure	220	60	Normal	A	
6	Enclosure	220	60	Reverse	A	

Leakage current measurement

Form E1
2 of 2

[photo]

Item	Equipment/Model, Manufacturer	Serial No.	Calibration Due	Note
1	Leakage Crump Tester / ST5540, HIOKI	170348488	2018-05	LT1
1	Leakage Clamp Meter / 3293-50, HIOKI	17030057	2018-05	LC1

Date	yyyy-mm-dd	Tested by	S. Watanabe
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SAMPLE

Residual voltage measurement

Form F1
1 of 2

Description	Accordance with Cl.xx in EN xxxxx
EUT Specifications	
Marked ratings	AC 200V ± 10% Single Phase, 50/60Hz, 120/100W
Operation mode	A: Continuous, B: 60 Sec operating time/ 90 sec downtime
Test Conditions	
Environments	cc.c °C, hh %, aaaa hPa
Input Voltage	AC 200V, 50Hz
Measurement Method	Oscilloscope, Probe
Measurement Points	Following table
Measurement time	1 s, 5 s, 10 s

No.	Measurement Point	Working Voltage [V]	Measurement Voltage		
			10 s after [V]	5 s after [V]	1 s after [V]
1	L1 to PE / MAIN	220	—	—	
2	L2 to PE / MAIN	220	—	—	
3	L3 to PE / MAIN	220	—	—	
4	L1 to L2 / MAIN	220	—	—	
5	L2 to L3 / MAIN	220	—	—	
6	L3 to L1 / MAIN	220	—	—	

Residual voltage measurement

Form F1
2 of 2

[photo]

Item	Equipment/Model, Manufacturer	Serial No.	Calibration Due	Note
1	Digital Oscilloscope / TDS3014, TEKTRONIX	B012142	2018-05	
2	Probe (100:1) / 701947, YOKOGAWA	—	2018-05	ACE-P1
3	Probe (100:1) / 701947, YOKOGAWA	—	2018-05	ACE-P2
4	Probe (100:1) / 701947, YOKOGAWA	—	2018-05	ACE-P3

Date	yyyy-mm-dd	Tested by	S. Watanabe
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Continuity of protective circuit test

Form G1
1 of 2

Description	Accordance with Cl.xx in EN xxxxx
Test Conditions	
Environments	cc.c °C, hh %, aaaa hPa
Test Method	Earth continuity tester
Test Points	Following table
Test Current	25 A
Test Frequency	60 Hz
Measurement time	120 s

No.	Test Point	Cross Section Size of PE Conductor	Max. Permitted Resistance [Ω]	Resistance [Ω]	Voltage [V]	Result Pass/Fail
1	Left door of control panel	—			—	
2	Right door of control panel	—			—	
3	Interconnection box 1	—				
4	M1	—				

Continuity of protective circuit test

Form G1
2 of 2

[photo]

Item	Equipment/Model, Manufacturer	Serial No.	Calibration Due	Note
1	Earth Continuity Tester / TOS6210, KIKUSUI	XD001323	2018-05	EC1

Date	yyyy-mm-dd	Tested by	S. Watanabe
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Temperature rise measurement

Form H1
1 of 1

Description	Accordance with Cl.xx in EN xxxxx
EUT Specifications	
Temperature	40 °C
Marked ratings	AC 200V ± 10% Single Phase, 50/60Hz, 120/100W
Operation mode	A: Continuous, B: 60 Sec operating time/ 90 sec downtime
Test Conditions	
Environments	cc.c °C, hh %, aaaa hPa
Input Voltage	AC 200V, 50Hz
Measurement Method	Thermocouple, Digital logger
Measurement Points	Following table
Measurement time	2 h

No.	Parts / Location	Measured Temp. [°C]	Corrected Temp. [°C]	Max. Permitted Temp. [°C]	Result Pass/Fail

Corrected Temp. = Measured Temp – Room Temp + [40 deg. or EUT specified Temp.]

Note:

Temperature rise measurement

Form H1
1 of 1

Pictures of measurement points

No. 1	No. 2	No. 3
No. 4	No. 5	No. 6
No. 7	No. 8	No. 9

[photo]

Item	Equipment/Model, Manufacturer	Serial No.	Calibration Due	Note	
1	Data Logger / LR8400, HIOKI	100720031	2018-05	DL1	
		Date	yyyy-mm-dd	Tested by	S. Watanabe

Stability test

Form L1
1 of 1

Description	Accordance with Cl.xx in EN xxxxx
EUT Specifications	
Mass	10 kg
Test Conditions	
Environments	cc.c °C, hh %, aaaa hPa
Test Force	Following table
Test Angle	10 °C
Test Time	1 min

No.	Condition	Test Angle [°C]	Test Force [N]	Comments	Result Pass/Fail

[photo]

Item	Equipment/Model, Manufacturer	Serial No.	Calibration Due	Note
1	Push Pull Gauge / FB-500N, IMADA	373841	2018-05	FG1

Date	yyyy-mm-dd	Tested by	S. Watanabe
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Insulation resistance measurement

Form N1
1 of 1

Description	Accordance with Cl.xx in EN xxxxx
Test Conditions	
Environments	cc.c °C, hh %, aaaa hPa
Test Voltage	Following Teble
Test Time	1 min
Devices disconnected	Z1 for MAINS

No.	Test Point	Test Voltage [Vdc]	Measured [MΩ]	Result Pass/Fail
1	L1, L2, L3 / MAIN - PE	500	>100	
2	U1, V1, W1 / MC1 - PE	500	>100	

[photo]

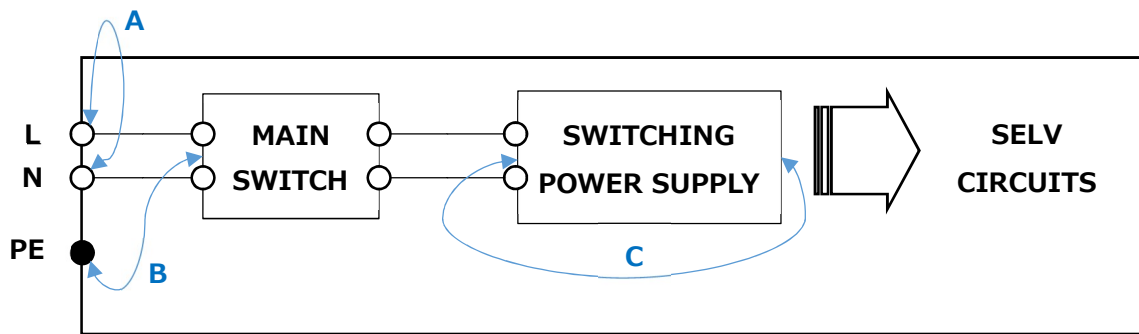
Item	Equipment/Model, Manufacturer	Serial No.	Calibration Due	Note
1	Insulation Tester / IR4042-11, HIOKI	170324334	2018-05	IT1
	Date	yyyy-mm-dd	Tested by	S. Watanabe

Voltage withstanding test

**Form O1
1 of 1**

Description	Accordance with Cl.xx in EN xxxxx
Test Conditions	
Environments	cc.c °C, hh %, aaaa hPa
Test Voltage	Following Table
Test Frequency	60 Hz
Test Time	1 s
Devices disconnected	Z1 for MAINS

Test Points



No.	Test Point	Over Voltage Category	Pollution Degree	Insulation Type	Working Voltage [V]	Test Voltage [V]
A	L to N / MAIN SWITCH opened	II	2	BI	220	1500
B	L, N to PE	II	2	BI	220	1500
C	Pri. To Sec. / SWITCHING POWER SUPPLY	II	2	RI	220	3000

[photo]

Item	Equipment/Model, Manufacturer	Serial No.	Calibration Due	Note	
1	Voltage Withstand Tester / TOS5301 , KIKUSUI	WM001177	2018-05		
		Date	yyyy-mm-dd	Tested by	S. Watanabe

SAMPLE

Marking test

Form Q1
1 of 1

Description	Accordance with Cl.xx in EN xxxxx
Test Conditions	
Environments	cc.c °C, hh %, aaaa hPa
Test Force	Following table
Test Agent	A: Water B: Petroleum spirit (hexane) C: Petroleum spirit (isopropyl alcohol 70 %)
Test Time	15 s

No.	Method (Refer to Method Table)	Test Agent	Remains legible	Label loose	Curled edges	Result Pass/Fail
A	Adhesive Label	B				
B	Ink Print	B				
C	Laser Marked	B				
D	Film-coated	B				
E	Imprinted on plastic	B				

No.	Markings		Method (A to E)
1	Identification (5.1.2)	Name Plate	A
2	MAINS supply (5.1.3)		
3	Fuses (5.1.4)		
4	Terminals and operating devices (5.1.5.2)	Terminal name Operating mark	A C
5	Switches and circuit breakers (5.1.6)	ON/OFF, AUTO/MANU, Volume	A
6	Double/reinforced equipment (5.1.7)		
7	Field wiring Terminal boxes (5.1.8)		
8	Warning marking (5.2)		
9	Battery charging (13.2.2)		

[photo]

Item	Equipment/Model, Manufacturer	Serial No.	Calibration Due	Note	
—	—	—	—	—	
		Date	yyyy-mm-dd	Tested by	S. Watanabe

SAMPLE