

DATA SHEET		Date	Jan.5,1998
Model	YAS5	Temp.	25 °C
Test	Static electricity immunity test 静電気放電試験	Humid.	45 %Rh
		Tested by	I.Yasuda

1. Method — according to EN61000-4-2 —

(1) Points to be applied voltage

電圧印加箇所

1) Input/Output/FG terminal, Enclosure

入力／出力／FG端子, ケース

(2) Testing shall be satisfied at the lower levels given below

印加電圧はレベル1から4まで順次実施(下表参照)

(3) Change the polarity (+/-) of applied voltage

印加極性 +/- の条件でそれぞれ実施

(4) For the time interval between successive single discharges an initial value of 1s. is recommended.

On preselected points at least ten single discharges shall be applied.

1秒以上の間隔で各ポイント10回実施

(5) Contact discharge method

接触放電で実施

Test levels of EN61000-4-2

Level	1	2	3	4	X
Contact discharge [kV]	2	4	6	8	Special
Air discharge [kV]	2	4	8	15	Special

2. Conditions

(1) Input : AC200V

(2) Output : Rated output

(3) Ambient temp. : 25±10°C

3. Conditions of Acceptability

According to EN50082-2 (EN61000-4-2 Level 2)

EN50082-2(EN61000-4-2 レベル2)を満足すること

4. Result

No.	Level	Voltage [kV]	Polarity	Terminal to be tested				
				AC(L)	AC(N)	FG	OUT(+)	OUT(-)
1	1	2	+	OK	OK	OK	OK	OK
2			-	OK	OK	OK	OK	OK
3	2	4	+	OK	OK	OK	OK	OK
4			-	OK	OK	OK	OK	OK
5	3	6	+	OK	OK	OK	OK	OK
6			-	OK	OK	OK	OK	OK
7	4	8	+	OK	OK	OK	OK	OK
8			-	OK	OK	OK	OK	OK

All are satisfactory to item 3: OK

DATA SHEET		Date	Jan.10,1998
Model	YAS5	Temp.	27 °C
Test	Radiated, radio-frequency, electromagnetic field immunity test 放射無線周波電磁界免疫試験	Humid.	55 %Rh
		Tested by	J.Uchida

1. Method — according to ENV50140 —

These tests are defined for measuring the effect that electromagnetic radiation has on the equipment connected. The tests shall be made in a shielded enclosure.

対象機器に対する電磁放射の影響を測定する。試験はシールドルームで行われること。

- (1) Frequency band : 80MHz to 1000MHz
周波数範囲 : 80MHz から 1000MHz

- (2) Test levels

試験レベル

Test levels of ENV50140

Level	Testing field strength V/m
1	1
2	3
3	10
X	Special

2. Conditions

- (1) Input : AC230V
(2) Output : Rated output
(3) Ambient temp. : 25±10°C

3. Conditions of Acceptability

According to EN50082-2 (ENV50140 Level 3)
EN50082-2 (ENV50140 レベル3)を満足すること

4. Result

No.	Level	Testing field strength [V/m]	Result
1	1	1	OK
2	2	3	OK
3	3	10	OK

All are satisfactory to item 3: OK

DATA SHEET		Date	Dec.24,1997
Model	YAS5	Temp.	25 °C
Test	Electrical fast transient/burst immunity test 電氣的ファーストランジエントバースト試験	Humid.	55 %Rh
		Tested by	I.Yasuda

1. Method — according to EN61000-4-4 —

(1) Points to be applied voltage

電圧印加箇所

1) Between input terminal(L) and ground plane

入力端子(L) — グラントプレーン間

2) Between input terminal(N) and ground plane

入力端子(N) — グラントプレーン間

3) Between FG terminal and ground plane

FG端子 — グラントプレーン間

4) Between output terminal and ground plane

出力端子 — グラントプレーン間

(2) Testing shall be satisfied at the lower levels given below

印加電圧はレベル1から4まで順次実施(下表参照)

(3) Change the polarity (+/-) of applied voltage

印加極性 +/- の条件でそれぞれ実施

(4) The period of applied voltage is 1 minute

電圧印加時間は1分間

Test levels of EN61000-4-4

Level	1	2	3	4	X
Voltage peak [kV]	0.5	1	2	4	Special
Repetition rate [kHz]	5	5	5	2.5	Special

2. Conditions

(1) Input : AC230V

(2) Output : Rated output

(3) Ambient temp. : 25±10°C

3. Conditions of Acceptability

According to EN50082-2 (EN61000-4-4 Level 3)

EN50082-2(EN61000-4-4 レベル3)を満足すること

4. Result

No.	Level	Voltage [kV]	Polarity	Terminal to be tested				
				AC(L)	AC(N)	FG	OUT(+)	OUT(-)
1	1	0.5	+	OK	OK	OK	OK	OK
2			-	OK	OK	OK	OK	OK
3	2	1	+	OK	OK	OK	OK	OK
4			-	OK	OK	OK	OK	OK
5	3	2	+	OK	OK	OK	OK	OK
6			-	OK	OK	OK	OK	OK
7	4	4	+	OK	OK	OK	OK	OK
8			-	OK	OK	OK	OK	OK

All are satisfactory to item 3: OK

DATA SHEET		Date	Jan.22,1999
Model	YAS5	Temp.	26 °C
Test	Surge immunity test サージ免疫試験	Humid.	45 %Rh
		Tested by	Kyu

1. Method — according to EN61000-4-5 —

(1) Points to be applied voltage

電圧印加箇所

- Line to line (ライン - ライン間 : ノーマル) -

1) Between input terminal (L) and input terminal (N)

入力端子(L) - 入力端子(N)

- Line to FG (ライン - FG間 : コモン) -

2) Between input terminal (L) and FG terminal

入力端子(L) - FG端子

3) Between input terminal (N) and FG terminal

入力端子(N) - FG端子

(2) Test at the selected levels shown below

印加電圧(レベル)は、下表に従う

(3) Change the polarity (+/-) of applied voltage

印加極性 +/- の条件でそれぞれ実施

(4) Number of tests : Six positive and six negative at selected points.

試験の回数 : それぞれの印加箇所、正負各6回試験する

(5) Repetition rate : maximum 1/min.

繰り返し速度 : 最大1回/分 (1分以上の間隔をおく)

Test levels of EN61000-4-5

Level	1	2	3	4	X
Test voltage[kV]	0.5	1	2	4	Special

2. Conditions

(1) Input : AC230V

(2) Output : Rated output

(3) Ambient temp. : 25±10°C

3. Conditions of Acceptability

Line to line : According to EN50082-2 (EN61000-4-5 Level 3)

ライン - ライン間 (ノーマル) : EN50082-2(EN61000-4-5 レベル3)を満足すること

Line to earth : According to EN50082-2 (EN61000-4-5 Level 4)

ライン - FG間 (コモン) : EN50082-2(EN61000-4-5 レベル4)を満足すること

4. Result

No.	Voltage [kV]	Polarity	Line (L) - Line (N)
1	0.5	+	OK
2		-	OK
3	1	+	OK
4		-	OK
5	2	+	OK
6		-	OK

No.	Voltage [kV]	Polarity	Line (L) - FG	Line (N) - FG
1	1	+	OK	OK
2		-	OK	OK
3	2	+	OK	OK
4		-	OK	OK
5	4	+	OK	OK
6		-	OK	OK

Surge Absorbers should be installed between L-N, L-FG and N-FG.

Surge Absorber : ENE471D-14A

Manufacturer : Model designation FUJI ELECTRIC

All are satisfactory to item 3: OK

DATA SHEET		Date	Jan.5,1998
Model	YAS5	Temp.	25 °C
Test	Immunity to conducted disturbances, induced by radio-frequency fields 伝導性無線周波数電磁界イミュニティ試験	Humid.	55 %Rh
		Tested by	J.Uchida

1. Method — according to ENV50141 —

(1) Points to be applied signals

信号印加箇所

1) Between input terminal(L) and terminal(N)

入力端子(L) — 入力端子(N)間

(2) Testing shall be satisfied at the lower levels given below

印加信号はレベル1から3まで順次実施(下表参照)

Test levels of ENV50141

No.	Level	Frequency range 150kHz - 80MHz	
		Voltage level (e.m.f.)	
		Vo[dB(μV)]	Vo[V]
1	1	120	1
2	2	130	3
3	3	140	10
4	X	Special	

2. Conditions

(1) Input : AC230V

(2) Output : Rated output

(3) Ambient temp. : 25±10°C

3. Conditions of Acceptability

According to EN50082-2 (ENV50141 Level 3) - IEC61000-4-6

EN50082-2(ENV50141 レベル3) - IEC61000-4-6を満足すること

4. Result

No.	Frequency range 150kHz - 80MHz			Result
	Level	Voltage level (e.m.f.)		
		Vo[dB(μV)]	Vo[V]	
1	1	120	1	OK
2	2	130	3	OK
3	3	140	10	OK

All are satisfactory to item 3: OK