



TEST DATA OF PAA600F-24

(100V INPUT)

Regulated DC Power Supply

Date : Aug. 18. 1997

Approved by : J. Yoneda
Design Manager

Prepared by : M. Washima
Design Engineer

コーセル株式会社

COSEL CO., LTD.

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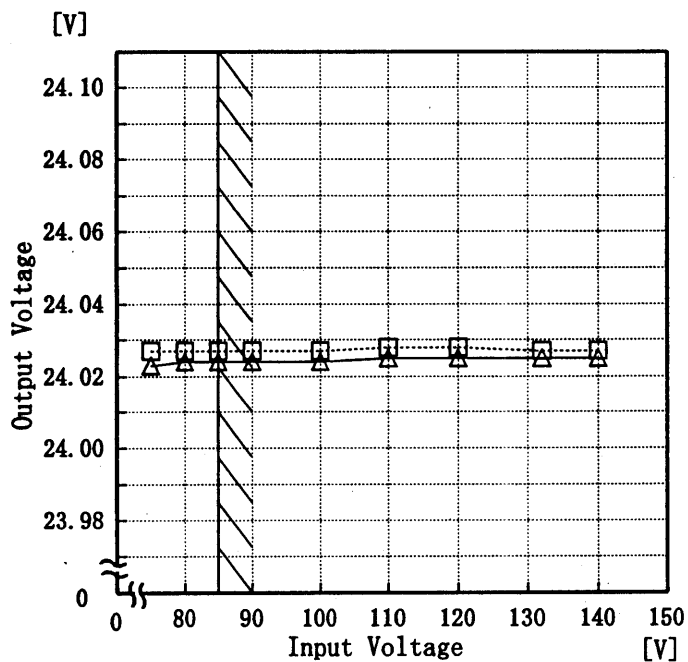
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Model	PAA600F-24
Item	Line Regulation 静的入力変動
Object	+24V27A

Temperature 25°C
Testing Circuitry Figure A

1. Graph

-----□----- Load 50%
-----△----- Load 100%



Note: Slanted line shows the range of the rated input voltage.

(注)斜線は定格入力電圧範囲を示す。

2. Values

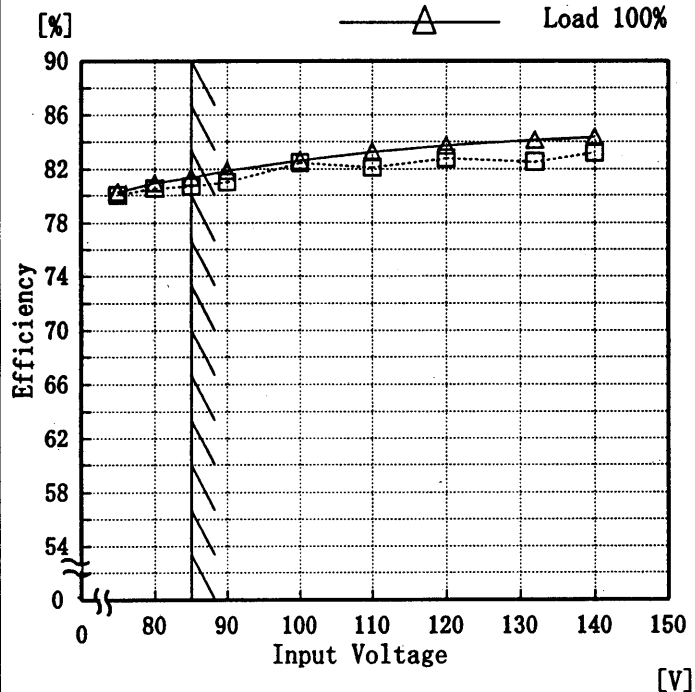
Input Voltage [V]	Load 50%	Load 100%
	Output Volt. [V]	Output Volt. [V]
75	24.027	24.023
80	24.027	24.024
85	24.027	24.024
90	24.027	24.024
100	24.027	24.024
110	24.028	24.025
120	24.028	24.025
132	24.027	24.025
140	24.027	24.025

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Model	PAA600F-24
Item	Efficiency 効率
Object	_____

Temperature 25°C
Testing Circuitry Figure A

1. Graph



Note: Slanted line shows the range of the rated input voltage.

(注) 斜線は定格入力電圧範囲を示す。

2. Values

Input Voltage [V]	Load 50%	Load 100%
	Efficiency [%]	Efficiency [%]
75	80.05	80.27
80	80.55	80.96
85	80.69	81.37
90	81.02	81.89
100	82.44	82.62
110	82.13	83.24
120	82.76	83.69
132	82.52	84.13
140	83.19	84.35

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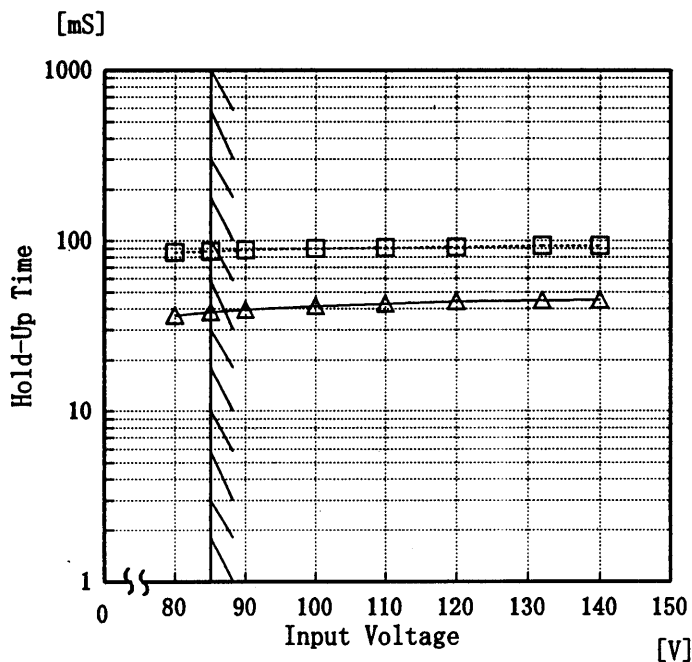
Model		PAA600F-24		Temperature 25°C																																	
Item		Power Factor 力率		Testing Circuitry Figure A																																	
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1. Graph			2. Values																																		
<p>Legend: □ load 50% △ load 100%</p>			<table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th>load 50%</th> <th>load 100%</th> </tr> <tr> <th>Power Factor</th> <th>Power Factor</th> </tr> </thead> <tbody> <tr><td>75</td><td>0.99</td><td>1.00</td></tr> <tr><td>80</td><td>0.99</td><td>1.00</td></tr> <tr><td>85</td><td>0.99</td><td>1.00</td></tr> <tr><td>90</td><td>0.98</td><td>1.00</td></tr> <tr><td>100</td><td>0.98</td><td>1.00</td></tr> <tr><td>110</td><td>0.98</td><td>0.99</td></tr> <tr><td>120</td><td>0.97</td><td>0.99</td></tr> <tr><td>132</td><td>0.97</td><td>0.99</td></tr> <tr><td>140</td><td>0.97</td><td>0.99</td></tr> </tbody> </table>			Input Voltage [V]	load 50%	load 100%	Power Factor	Power Factor	75	0.99	1.00	80	0.99	1.00	85	0.99	1.00	90	0.98	1.00	100	0.98	1.00	110	0.98	0.99	120	0.97	0.99	132	0.97	0.99	140	0.97	0.99
Input Voltage [V]	load 50%	load 100%																																			
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110	0.98	0.99																																			
120	0.97	0.99																																			
132	0.97	0.99																																			
140	0.97	0.99																																			
<p>Note: Slanted line shows the range of the rated input voltage.</p> <p>(注) 斜線は定格入力電圧範囲を示す。</p>																																					



Model	PAA600F-24
Item	Hold-Up Time 出力保持時間
Object	+24V27A

Temperature 25°C
Testing Circuitry Figure A

1. Graph
 -----□----- Load 50%
 -----△----- Load 100%



This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.

Note: Slanted line shows the range of the rated input voltage.

出力保持時間とは、AC入力断から出力電圧が、定電圧精度の規格範囲を保持しているところまでの時間。

(注)斜線は定格入力電圧範囲を示す。

2. Values

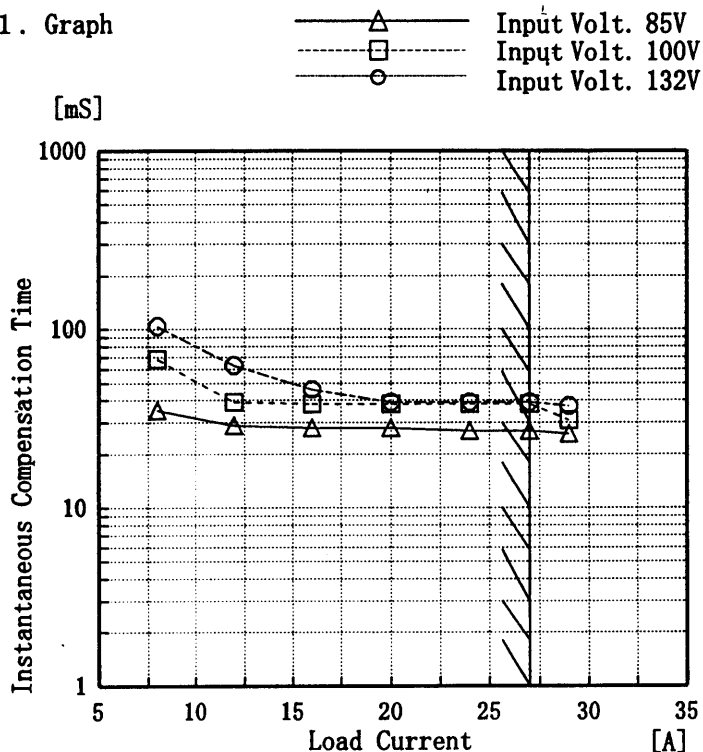
Input Voltage [V]	Load 50%	Load 100%
	Hold-Up Time [mS]	Hold-Up Time [mS]
75	-	-
80	85	37
85	87	38
90	89	39
100	90	41
110	91	43
120	92	44
132	93	45
140	93	45



Model	PAA600F-24
Item	Instantaneous Interruption Compensation 瞬時停電保障
Object	+24V27A

Testing Circuitry Figure A 25°C

1. Graph



This duration covers from Shut-off of AC-IN to the moment when output voltage descends to its 95% of the rated.

Note: Slanted line shows the range of the rated load current.

瞬時停電保障時間とは、出力電圧が定格値の95%になる時の瞬時停電時間をいう。

(注)斜線は定格負荷電流範囲を示す。

2. Values

Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Time [mS]		
4.0	111	180	231
8.0	35	68	104
12.0	29	39	63
16.0	28	38	46
20.0	28	38	39
24.0	27	38	39
27.0	27	38	39
29.0	26	31	37

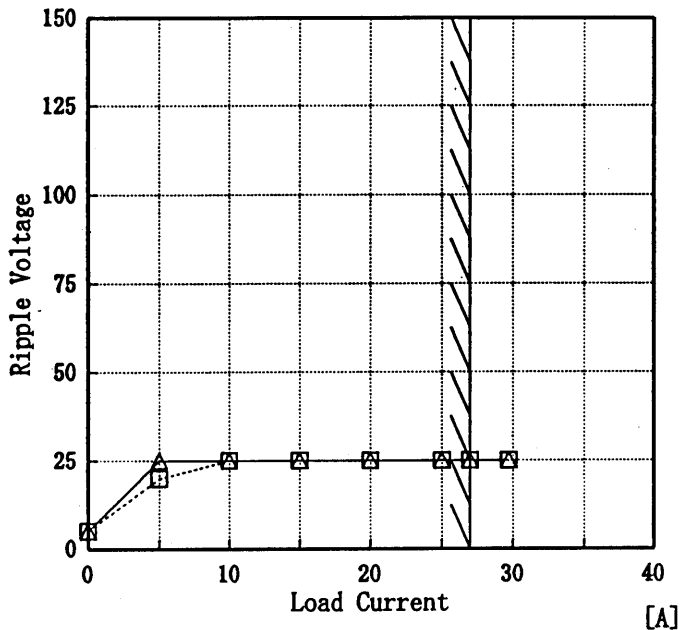
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Model		PAA600F-24		Temperature		25°C																																																
Item		Load Regulation 静的負荷変動		Testing Circuitry		Figure A																																																
Object		+24V27A																																																				
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<p> △ Input Volt. 85V □ Input Volt. 100V ○ Input Volt. 132V </p>				<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th>Input Volt. 85[V]</th> <th>Input Volt. 100[V]</th> <th>Input Volt. 132[V]</th> </tr> <tr> <th>Output Volt. [V]</th> <th>Output Volt. [V]</th> <th>Output Volt. [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>24.034</td><td>24.034</td><td>24.034</td></tr> <tr><td>4.0</td><td>24.032</td><td>24.032</td><td>24.032</td></tr> <tr><td>8.0</td><td>24.030</td><td>24.030</td><td>24.030</td></tr> <tr><td>12.0</td><td>24.029</td><td>24.029</td><td>24.029</td></tr> <tr><td>16.0</td><td>24.029</td><td>24.028</td><td>24.028</td></tr> <tr><td>20.0</td><td>24.028</td><td>24.028</td><td>24.028</td></tr> <tr><td>24.0</td><td>24.027</td><td>24.027</td><td>24.027</td></tr> <tr><td>27.0</td><td>24.026</td><td>24.027</td><td>24.026</td></tr> <tr><td>29.7</td><td>24.025</td><td>24.026</td><td>24.026</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>				Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]	0.0	24.034	24.034	24.034	4.0	24.032	24.032	24.032	8.0	24.030	24.030	24.030	12.0	24.029	24.029	24.029	16.0	24.029	24.028	24.028	20.0	24.028	24.028	24.028	24.0	24.027	24.027	24.027	27.0	24.026	24.027	24.026	29.7	24.025	24.026	24.026	—	—	—	—
Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																			
	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]																																																			
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24.0	24.027	24.027	24.027																																																			
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—	—	—	—																																																			
<p>Note: Slanted line shows the range of the rated load current.</p> <p>(注)斜線は定格負荷電流範囲を示す。</p>																																																						

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Model	PAA600F-24	Temperature	25°C
Item	Ripple Voltage (by Load Current) リップル電圧 (負荷電流特性)	Testing Circuitry	Figure A
Object	+24V27A		

1. Graph
 [mV] □ Input Volt. 85V
 △ Input Volt. 132V



Ripple Voltage is shown as p-p in the figure below.

Note: Slanted line shows the range of the rated load current.

リップル電圧は、下図 p-p 値で示される。
 (注) 斜線は定格負荷電流範囲を示す。

T1: Due to AC Input Line
 入力商用周期
 T2: Due to Switching
 スイッチング周期

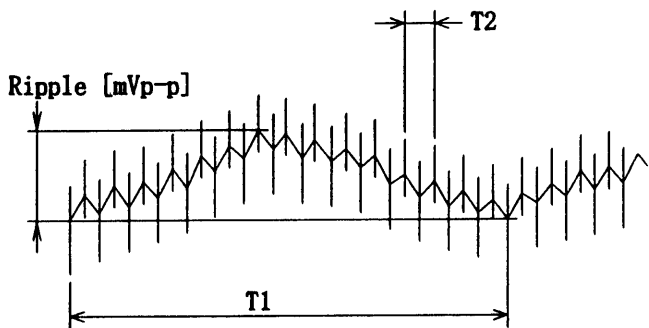


Fig. Complex Ripple Wave Form
 図 リップル波形詳細図

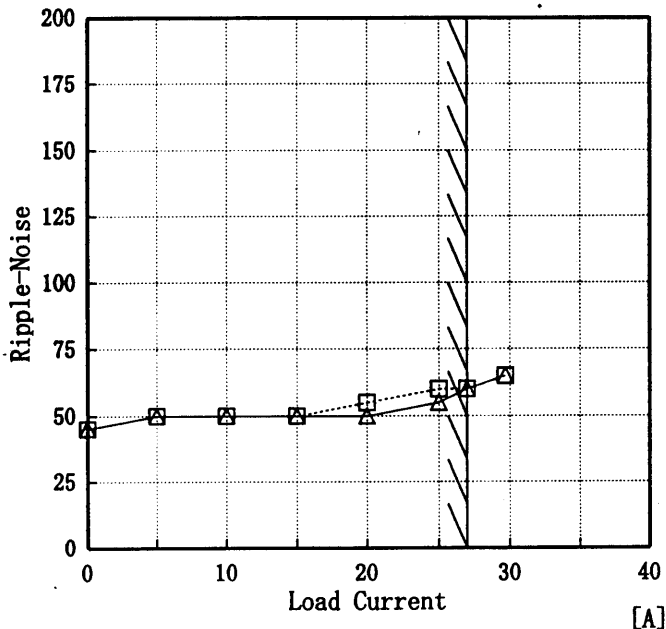
2. Values

Load Current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]
	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]
0.0	5	5
5.0	20	25
10.0	25	25
15.0	25	25
20.0	25	25
25.0	25	25
27.0	25	25
29.7	25	25



Model		PAA600F-24	Temperature		25°C
Item		Ripple-Noise リップルノイズ	Testing Circuitry		Figure A
Object		+24V 27A			

1. Graph
 [mV] □----- Input Volt. 85V
 —△— Input Volt. 132V



Ripple-Noise is shown as p-p in the figure below.
 Note: Slanted line shows the range of the rated load current.

リップルノイズは、下図 p-p 値で示される。
 (注)斜線は定格負荷電流範囲を示す。

T1: Due to AC Input Line
 入力商用周期
 T2: Due to Switching
 スイッチング周期

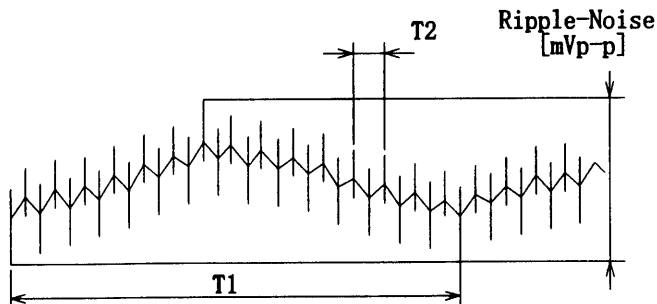


Fig. Complex Ripple Wave Form
 図 リップル波形詳細図

2. Values

Load current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]
	Ripple-Noise [mV]	Ripple-Noise [mV]
0.0	45	45
5.0	50	50
10.0	50	50
15.0	50	50
20.0	55	50
25.0	60	55
27.0	60	60
29.7	65	65



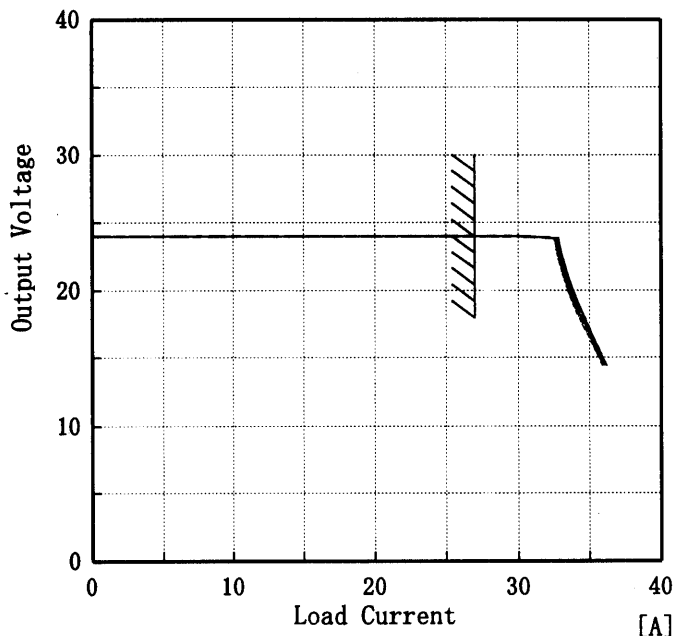
Model	PAA600F-24
Item	Overcurrent Protection 過電流保護
Object	+24V27A

Temperature 25°C
Testing Circuitry Figure A

1. Graph

[V]

————— Input Volt. 85 V
 ————— Input Volt. 100 V
 ————— Input Volt. 132 V



Note: Slanted line shows the range of the rated load current.

(注)斜線は定格負荷電流範囲を示す。

14V以下は間欠モードにはいる。

2. Values

Output Voltage [V]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Load Current [A]	Load Current [A]	Load Current [A]
24.00	30.53	30.07	29.90
22.80	32.72	32.85	32.99
21.60	32.98	33.11	33.28
19.20	33.77	33.92	34.12
16.80	34.84	34.98	35.14
14.40	35.95	36.05	36.21

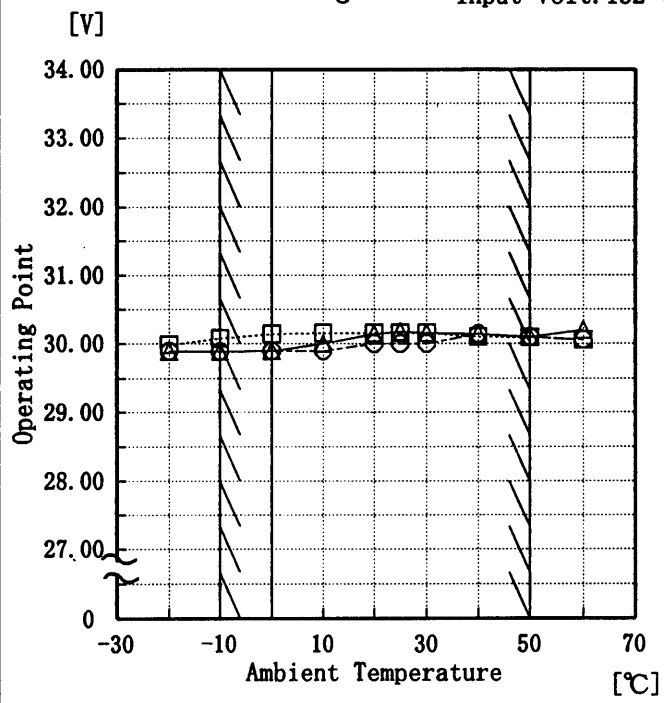
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Model	PAA600F-24
Item	-Overvoltage Protection 過電圧保護
Object	+24V27A

Testing Circuitry Figure A

1. Graph

—△— Input Volt. 85 V
 - - -□- - - Input Volt. 100 V
 —○— Input Volt. 132 V



Note: Slanted line shows the range of the rated ambient temperature.

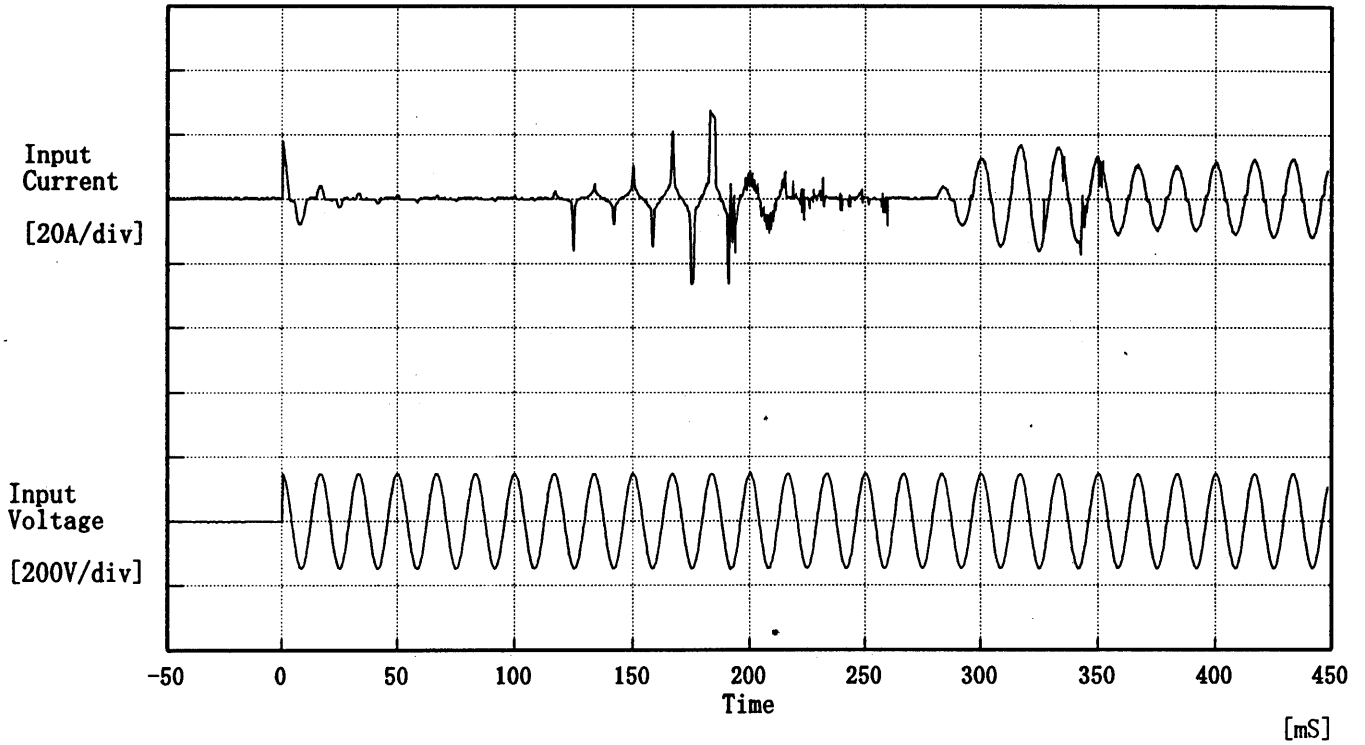
(注) 斜線は定格周囲温度範囲を示す。

2. Values

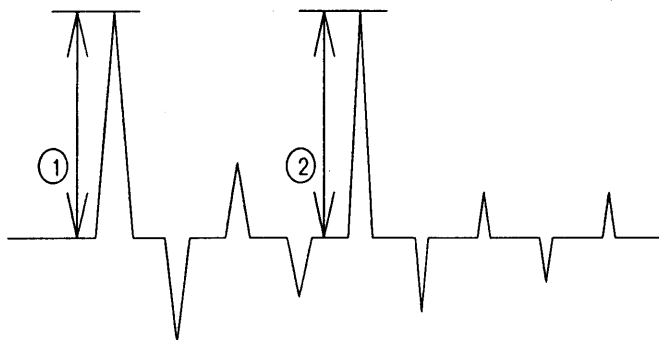
Ambient Temp. [°C]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Operating Point [V]		
-20	29.9	30.0	29.9
-10	29.9	30.1	29.9
0	29.9	30.1	29.9
10	30.0	30.2	30.0
20	30.1	30.2	30.0
25	30.2	30.2	30.0
30	30.2	30.2	30.0
40	30.1	30.1	30.1
50	30.1	30.1	30.1
60	30.2	30.1	30.1
—	—	—	—

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Model	PAA600F-24	Temperature	25°C
Item	Inrush Current 突入電流	Testing Circuitry	Figure A
Object	_____		



Input Voltage 100 V
 Frequency 60 Hz
 Load 100 %
 Inrush Current
 ① 18.00 [A]
 ② 27.60 [A]





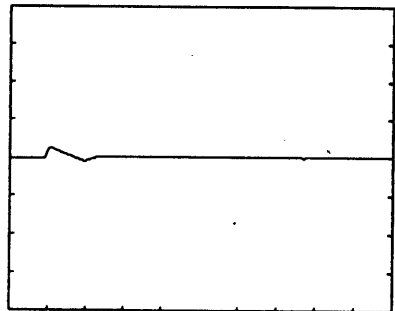
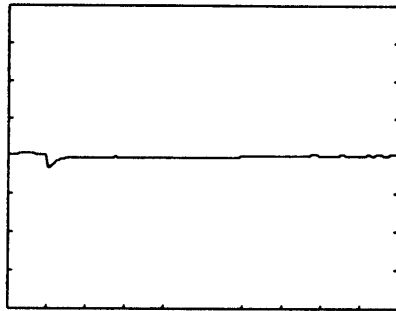
Model		PAA600F-24	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Responce 動的負荷変動	
Object		+24V 27A	

Input Volt. 100 V
Cycle 200 mS

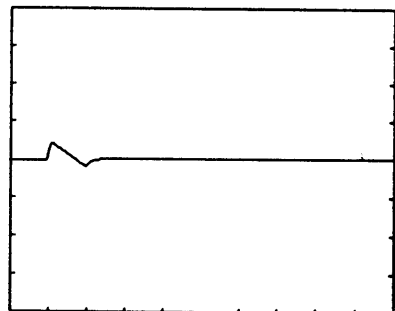
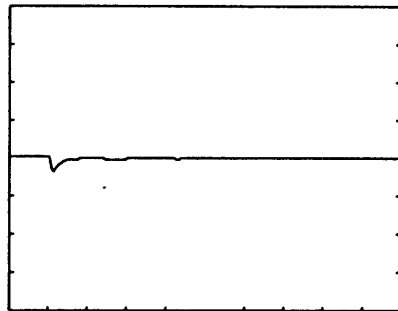
Load Current



Load 0% ↔
Load 100 %



Load 0% ↔
Load 50 %



100 mV/div

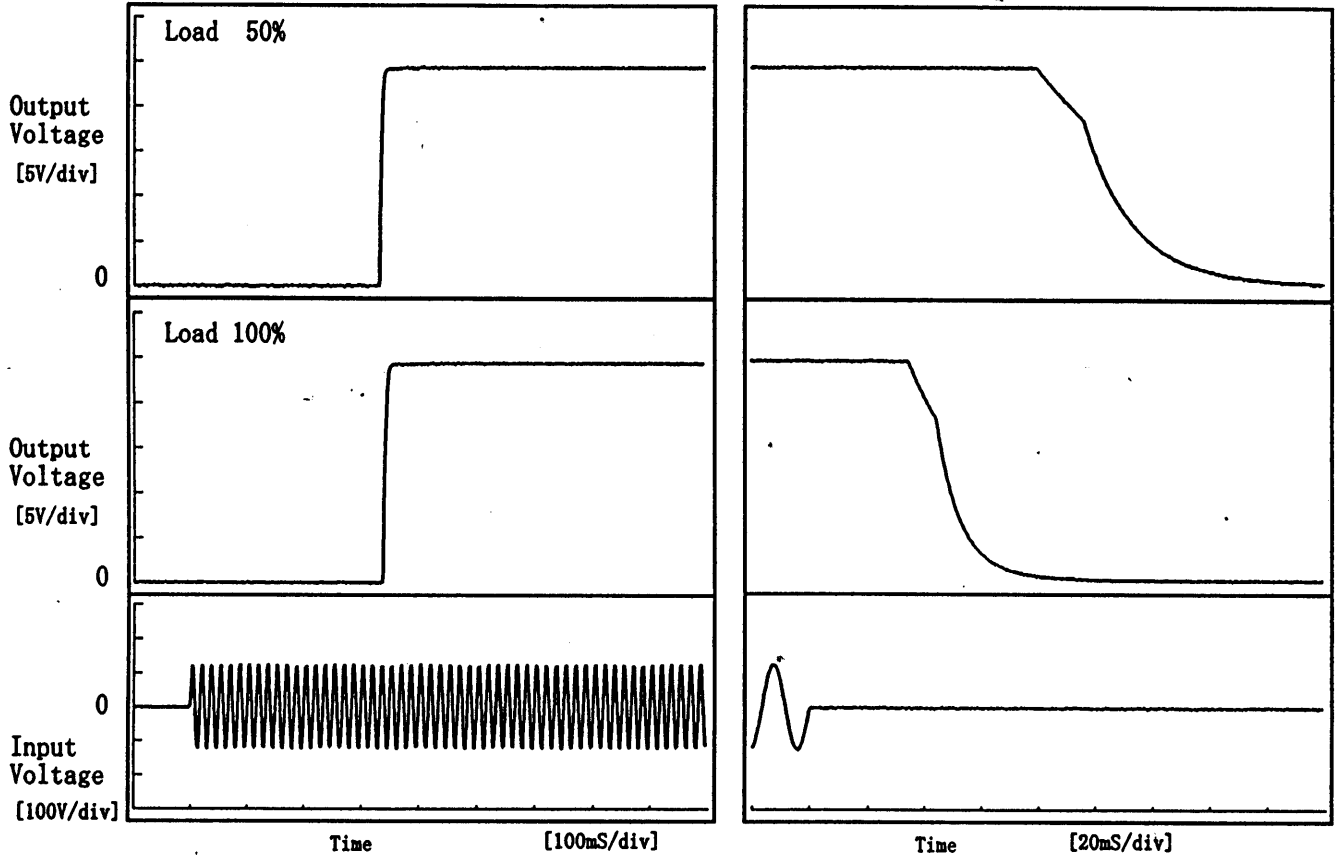
10 mS/div

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Model	PAA600F-24	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+24V27A		

1. Graph

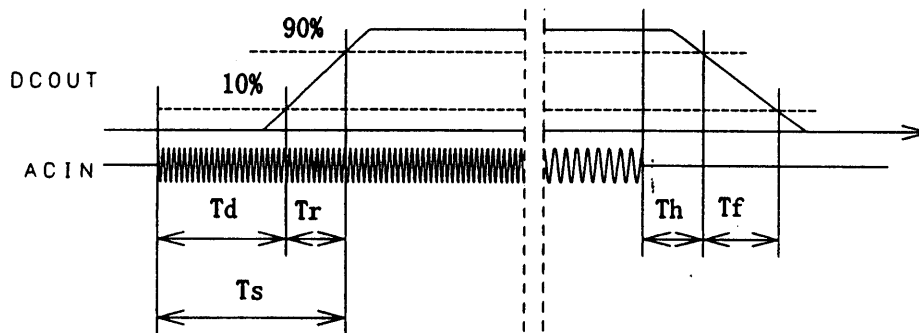
Input Volt. 85 V



2. Values

[mS]

Load \ Time	T _d	T _r	T _s	T _h	T _f
50 %	333.0	5.5	338.5	87.5	47.4
100 %	340.0	8.5	348.5	38.9	24.8

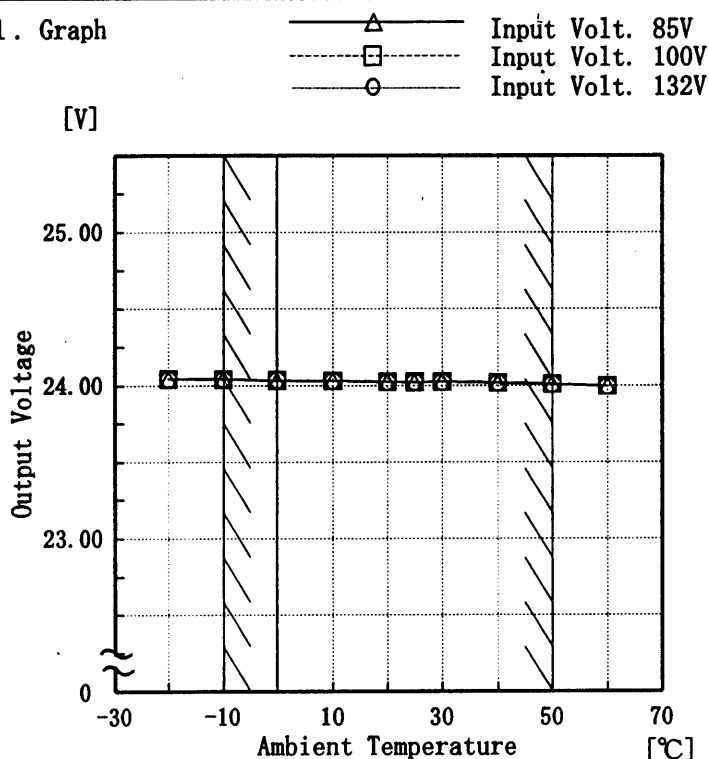


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Model	PAA600F-24
Item	- Ambient Temperature Drift 周囲温度変動
Object	+24V27A

Testing Circuitry Figure A

1. Graph



Note: Slanted line shows the range of the rated ambient temperature.

(注) 斜線は定格周囲温度範囲を示す。

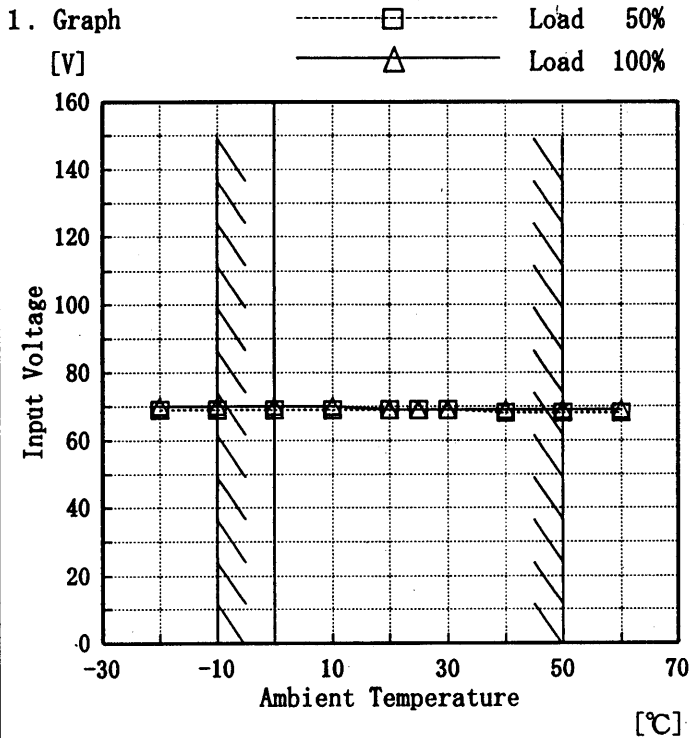
2. Values

Temperature [°C]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]
-20	24.043	24.044	24.044
-10	24.043	24.041	24.041
0	24.032	24.036	24.036
10	24.031	24.031	24.031
20	24.025	24.025	24.026
25	24.023	24.024	24.024
30	24.024	24.024	24.025
40	24.017	24.017	24.018
50	24.008	24.008	24.008
60	23.996	23.996	23.996



Model	PAA600F-24
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	+24V27A

Testing Circuitry Figure A



2. Values

Ambient Temp. [°C]	Load 50% Input Volt. [V]	Load 100% Input Volt. [V]
-20	69	70
-10	69	70
0	69	70
10	69	70
20	69	69
25	69	69
30	69	69
40	68	69
50	68	69
60	68	69
—	—	—

Note: Slanted line shows the range of the rated ambient temperature.

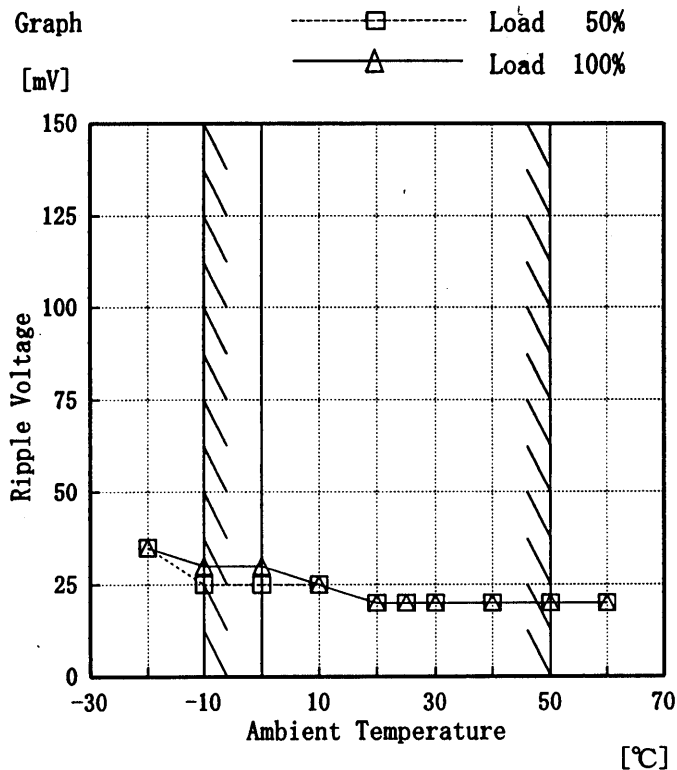
(注) 斜線は定格周囲温度範囲を示す。



Model	PAA600F-24
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)
Object	+24V 27A

Testing Circuitry Figure A

1. Graph



Input Volt. 100 V

Note: Slanted line shows the range of the rated ambient temperature.

(注)斜線は定格周囲温度範囲を示す。

2. Values

Ambient Temp. [°C]	Load 50%	Load 100%
	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]
-20	35	35
-10	25	30
0	25	30
10	25	25
20	20	20
25	20	20
30	20	20
40	20	20
50	20	20
60	20	20
—	—	—

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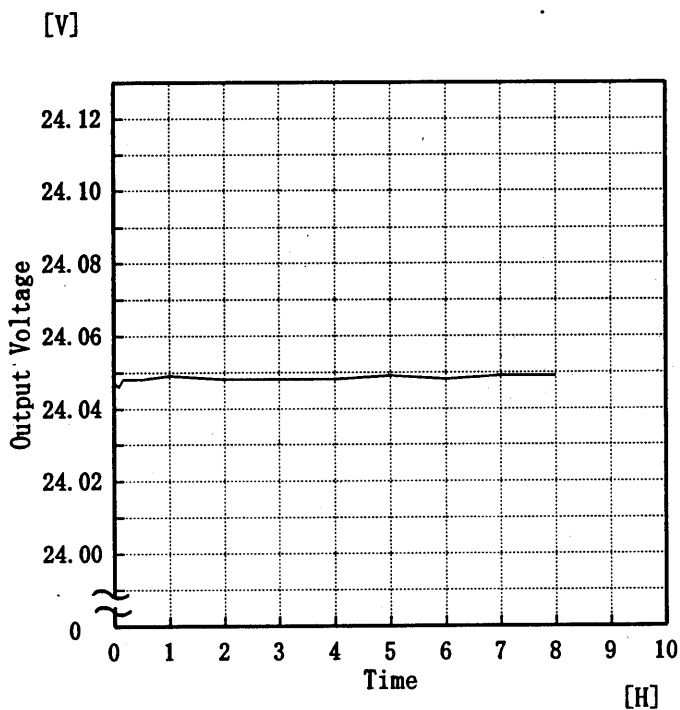
Model PAA600F-24

Item Time Lapse Drift 経時ドリフト

Object +24V27A

Temperature 25 °C
Testing Circuitry Figure A

1. Graph



Input Volt. 100V
Load 100%

2. Values

Time since start [H]	Output Voltage [V]
0.0	24.048
0.5	24.048
1.0	24.049
2.0	24.048
3.0	24.048
4.0	24.048
5.0	24.049
6.0	24.048
7.0	24.049
8.0	24.049



Model		PAA600F-24	Testing Circuitry Figure A
Item		Output Voltage Accuracy 定電圧精度	
Object		+24V27A	

Output Voltage Accuracy

This is defined as the maximum value of the output voltage regulation load, temperature and input voltage vary at random in the range as specified below.

Temperature : -10~50 °C

Input Voltage : 85~132 V

Load Current : 0~27 A

* Output Voltage Accuracy = $\pm (\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

$$\text{* Output Voltage Accuracy (Ration)} = \frac{\text{Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$$

定電圧精度

温度、入力電圧、負荷を下記仕様内で、任意に変動させたときの出力電圧の変動をいう。

周囲温度 -10~50 °C

入力電圧 85~132 V

負過電流 0~27 A

* 定電圧精度(変動値) = $\pm (\text{出力電圧の最高値} - \text{出力電圧の最低値}) / 2$
変動値

$$\text{* 定電圧精度(変動率)} = \frac{\text{変動値}}{\text{定格出力電圧}} \times 100$$

Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration) [%]
Maximum Voltage	-10	132	0	24.048	±22	±0.090
Minimum Voltage	50	85	27	24.005		

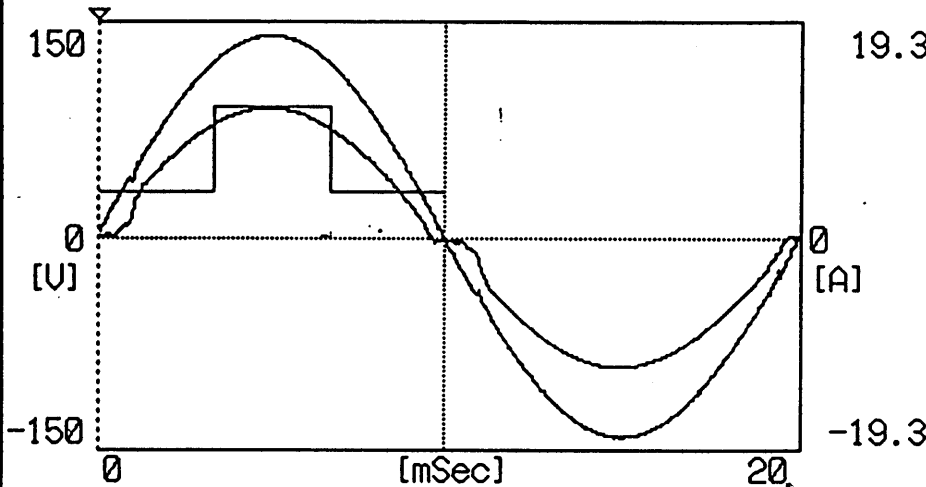
COSEL

Model	PAA600F-24	Temperature	25°C
Item	Harmonic Current 高調波電流	Testing Circuitry	Figure E
Object			

1. Input Current Waveform

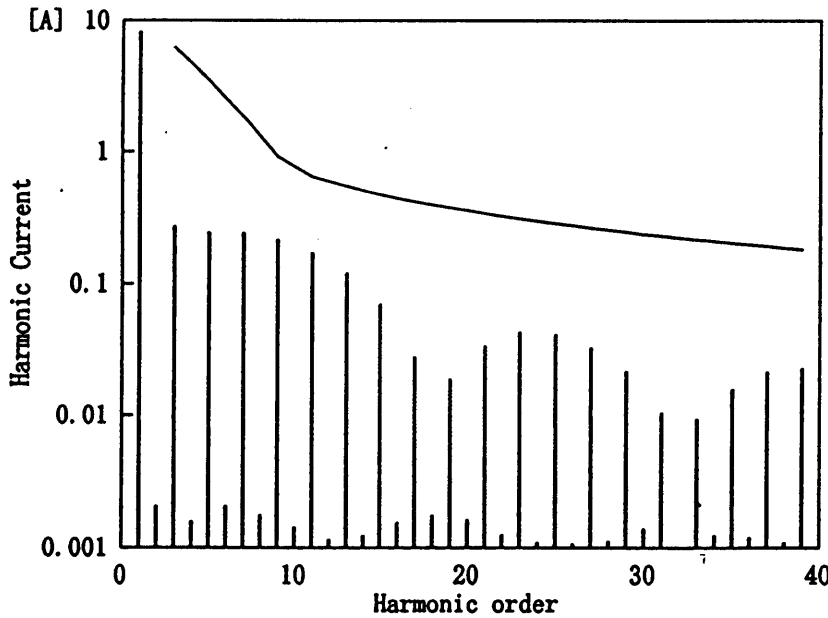
— Input Current
 — Envelope of the input current to classify equipment as Class D
 クラスDの機器を決定するための入力電流包絡線

2 A/div



Conditions	Values
Input Voltage [V]	100
Input Current [A]	8.25
Active Power [W]	800.3
Apparent Power [VA]	804.1
Frequency [Hz]	60
Power Factor	0.995
Output Power [W]	648

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	8.23600
2	—	0.00207
3	6.25835	0.27170
4	—	0.00159
5	3.49731	0.24497
6	—	0.00207
7	1.84069	0.24258
8	—	0.00177
9	0.92035	0.21589
10	—	0.00143
11	0.64424	0.17291
12	—	0.00116
13	0.54513	0.12051
14	—	0.00124
15	0.47244	0.07041
16	—	0.00156
17	0.41686	0.02845
18	—	0.00175
19	0.37298	0.01899
20	—	0.00163
21	0.33746	0.03398
22	—	0.00126
23	0.30812	0.04315
24	—	0.00110
25	0.28347	0.04132
26	—	0.00107
27	0.26247	0.03312
28	—	0.00112
29	0.24437	0.02172
30	—	0.00139
31	0.22860	0.01053
32	—	0.00086
33	0.21475	0.00951
34	—	0.00124
35	0.20248	0.01594
36	—	0.00120
37	0.19153	0.02167
38	—	0.00110
39	0.18171	0.02292
40	—	0.00000



— Harmonic Current
 高調波電流
 - - - Limits for Class D equipment
 クラスDの機器に対する限度値

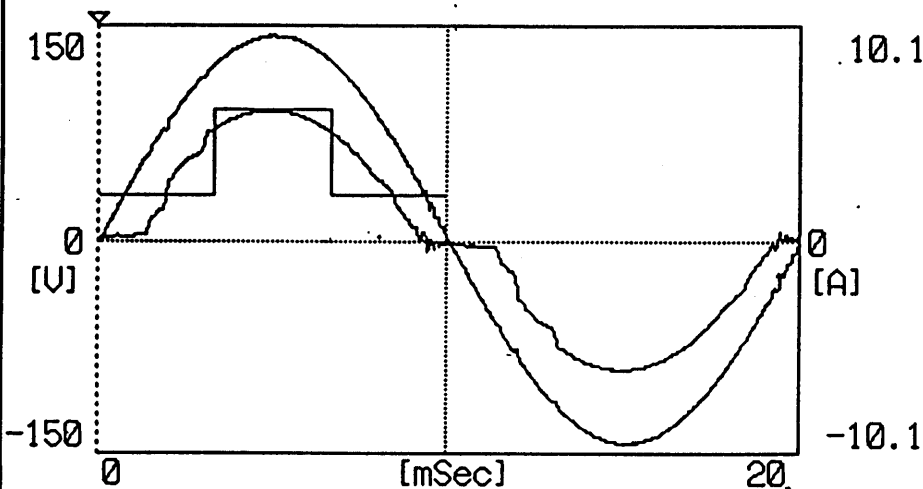
COSEL

Model	PAA600F-24	Temperature	25°C
Item	Harmonic Current 高調波電流	Testing Circuitry	Figure E
Object			

1. Input Current Waveform

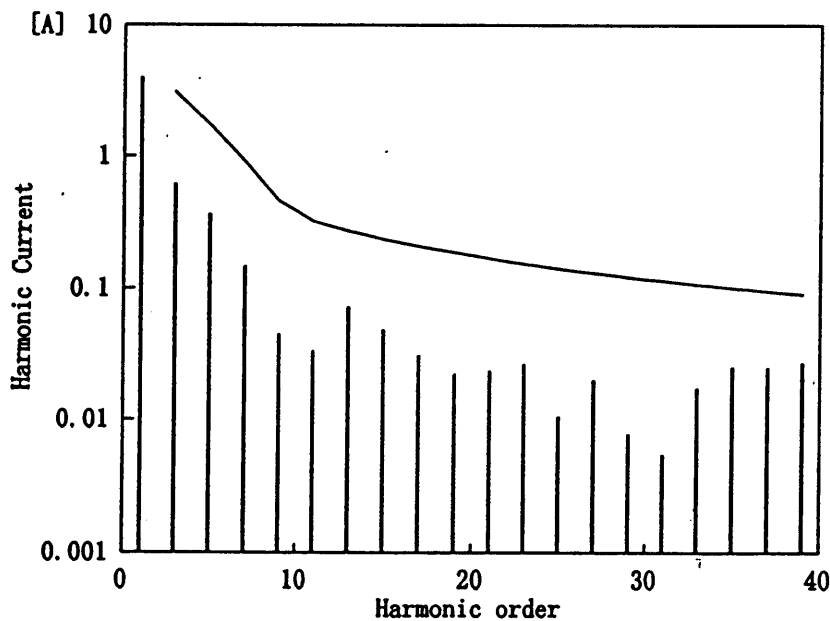
— Input Current
— Envelope of the input current to classify equipment as Class D
クラスDの機器を決定するための入力電流包絡線

2 A/div



Conditions	Values
Input Voltage [V]	100
Input Current [A]	4.09
Active Power [W]	397.1
Apparent Power [VA]	405
Frequency [Hz]	60
Power Factor	0.980
Output Power [W]	324

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	4.01300
2	—	0.00077
3	3.10532	0.61852
4	—	0.00026
5	1.73533	0.36392
6	—	0.00027
7	0.91333	0.14810
8	—	0.00035
9	0.45667	0.04489
10	—	0.00044
11	0.31967	0.03366
12	—	0.00031
13	0.27049	0.07186
14	—	0.00014
15	0.23442	0.04827
16	—	0.00039
17	0.20684	0.03101
18	—	0.00023
19	0.18507	0.02236
20	—	0.00029
21	0.16744	0.02349
22	—	0.00036
23	0.15288	0.02683
24	—	0.00036
25	0.14065	0.01066
26	—	0.00028
27	0.13023	0.01991
28	—	0.00035
29	0.12125	0.00782
30	—	0.00049
31	0.11343	0.00554
32	—	0.00065
33	0.10656	0.01736
34	—	0.00039
35	0.10047	0.02511
36	—	0.00029
37	0.09504	0.02500
38	—	0.00036
39	0.09016	0.02724
40	—	0.00065



— Harmonic Current
高調波電流
— Limits for Class D equipment
クラスDの機器に対する限度値

COSEL

Model		PAA600F-24	Testing Circuitry	Figure A
Item		Condensation 結露特性		
Object		+24V27A		

1. Condensation test

Testing procedure is as follows.

- ① Keeping and cooling the unit in a tank at -10°C for an hour with the input off.
- ② Taking it out of the tank and dewing itself in a room where the temperature is 25°C and the humidity is 40%RH.
- ③ Testing electrical characteristics of the unit to confirm there be no fault.
- ④ Repeating ①, ② and ③ three times.

1. 結露特性試験

入力を切った状態で、恒温槽で-10℃に冷却しておき、約1時間後に恒温槽から取り出し、室温25℃、湿度40%RHの状態におき結露させ、その電気的特性の測定を3度行い、異常のないことを確認する。

2. Values

	Times	Output Voltage [V]	Ripple Voltage [mV]	Ripple Noise [mV]
Load 50 %	1	24.030	20	45
	2	24.030	20	45
	3	24.030	20	45
Load 100 %	1	24.030	20	55
	2	24.030	20	55
	3	24.030	20	55

Input Volt. 100 V



Model		PAA600F-24	Testing Circuitry Figure A
Item		Leakage Current 漏洩電流	
Object		_____	

1. Results

Standards	Leakage Current [mA]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
(A) DENTORI	0.19	0.20	0.21
(B) UL	0.19	0.20	0.21
(C) CSA	0.19	0.20	0.21

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 220 [V]	Input Volt. 264 [V]
(D) VDE	—	—	—

2. Condition

Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.

交流入力 of 両相について測定し、その大きい方を漏洩電流測定値とする。

Load 100 %



Model		PAA600F-24	Testing Circuitry	Figure C
Item		Line Noise Tolerance 入力雑音耐量		
Object		+24V27A		

1. Results

Pulse Width [n S]	MODE	Operating Point of Overvoltage Protection [V] 過電圧保護動作値	DC-like Regulation of Output Voltage 出力電圧の直流的変動
50	COMMON	30.20	no regulation
	NORMAL	30.20	no regulation
1000	COMMON	30.20	no regulation
	NORMAL	30.20	no regulation

Conditions

Input Voltage : 100 V
 Pulse Voltage : 2000 V
 Pulse Cycle : 10 mS
 Pulse Input Duration: 1 min. or more
 Load : 100 %

COSEL

Model	PAA600F-24	Testing Circuitry	Figure D
Item	Conducted Emission 雑音端子電圧		
Object	_____		

1. Graph

Remarks

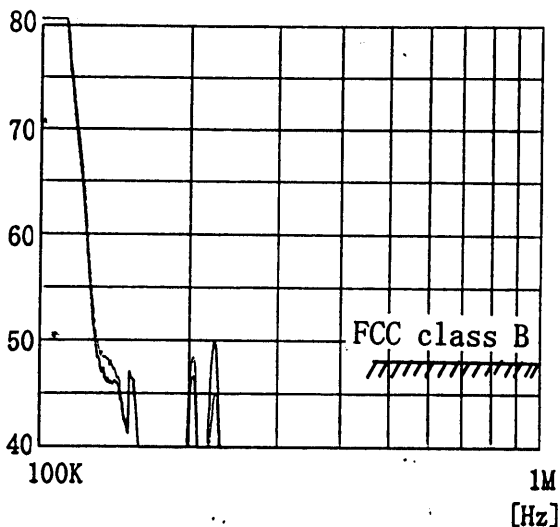
Input Volt. 120 V
Load 100 %

Note: Slanted line shows the range of Tolerance.

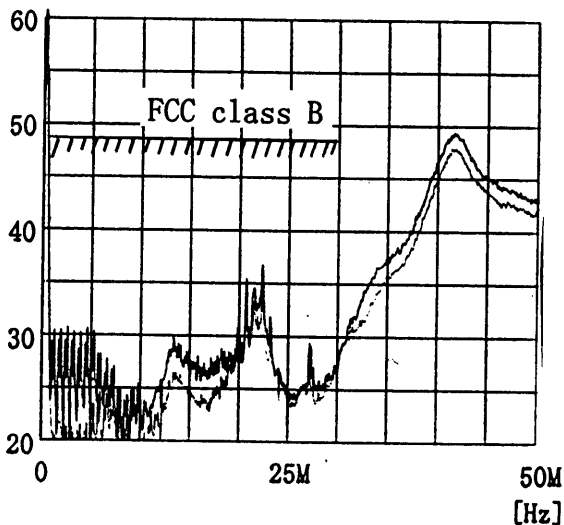
(注)斜線は許容値を示す。

NO	Standards	Standards Complied	Frequency [MHz]	Tolerance [dB/μV]
1	FCC Class A		0.45~1.6	60
			1.6~30	69.5
2	FCC Class B	○	0.45~30	48
3	VCCI -1		0.15~0.5	79
			0.5~30	73
4	VCCI -2	○	0.15~0.5	66-56
			0.5~5	56
			5~30	60
5	VDE Class A		0.01~0.15	91-69.5
			0.15~0.5	66
			0.5~30	60
6	CISPR22 Class B		0.15~0.5	66-56
			0.5~5	56
			5~30	60

[dB μV]



[dB μV]



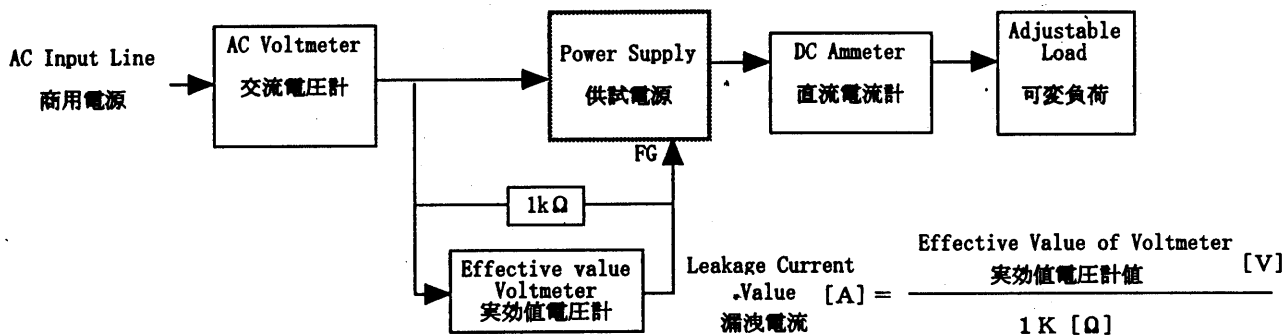
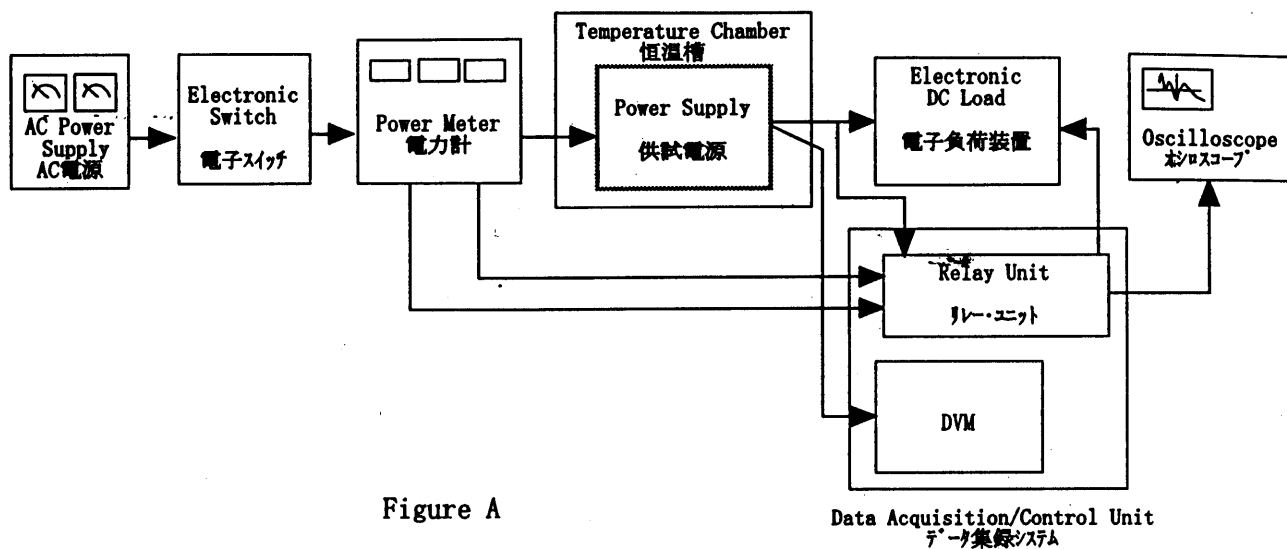


Figure B (DENTORI)

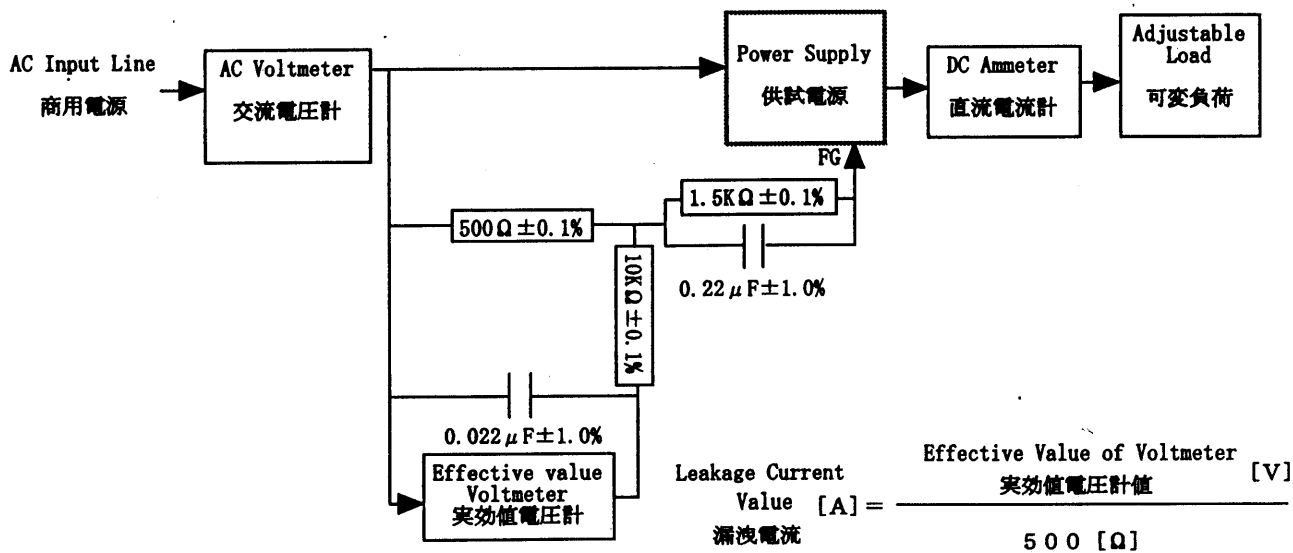


Figure B (UL, CSA, VDE)

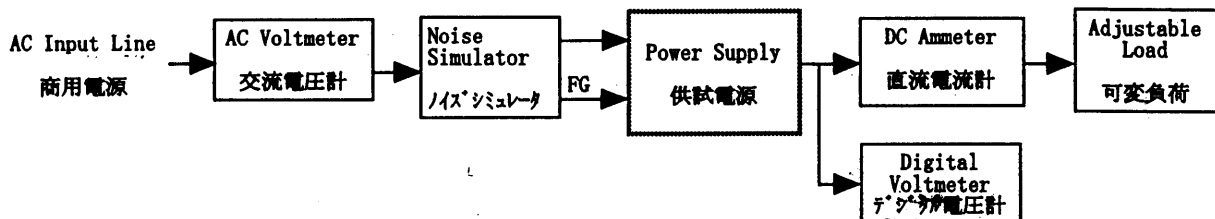


Figure C

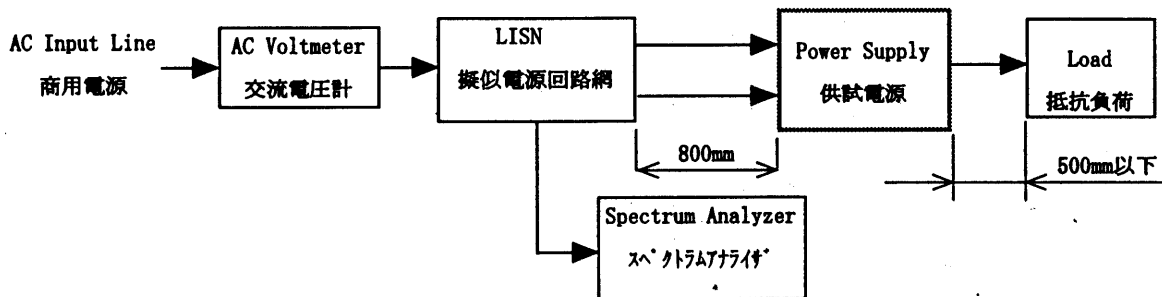


Figure D

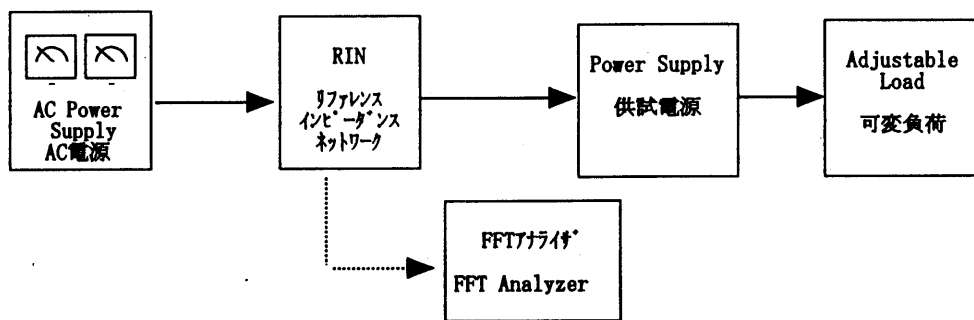


Figure E