

**COSEL**

**TEST DATA OF PAA600F-12**  
**(100V INPUT)**

Regulated DC Power Supply

Date : Aug. 28. 1997

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**コーセル株式会社**  
**COSEL CO., LTD.**

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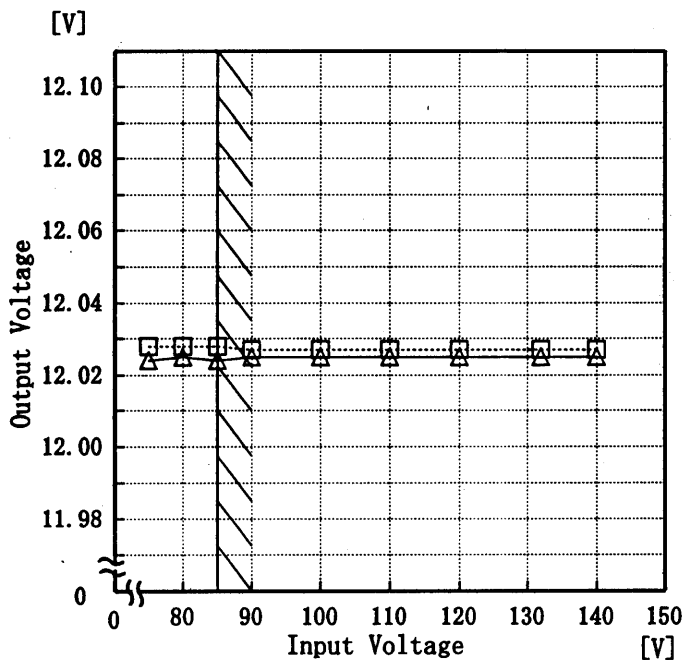
# COSEL

Model	PAA600F-12
Item	Line Regulation 静的入力変動
Object	+12V53A

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

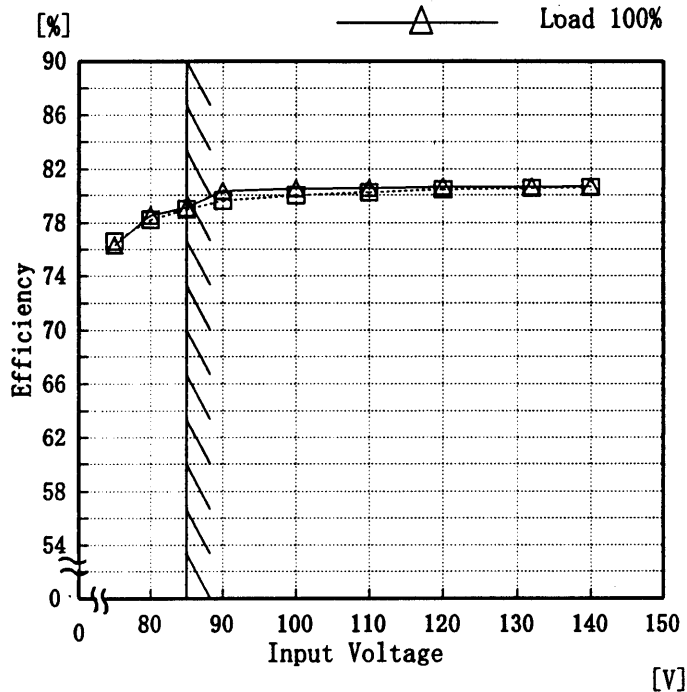
Input Voltage [V]	Load 50%	Load 100%
	Output Volt. [V]	Output Volt. [V]
75	12.028	12.024
80	12.028	12.025
85	12.028	12.024
90	12.027	12.025
100	12.027	12.025
110	12.027	12.025
120	12.027	12.025
132	12.027	12.025
140	12.027	12.025



Model	PAA600F-12
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	76.63	76.33
80	78.24	78.56
85	78.99	79.12
90	79.63	80.52
100	80.01	80.53
110	80.25	80.56
120	80.43	80.65
132	80.54	80.65
140	80.54	80.68

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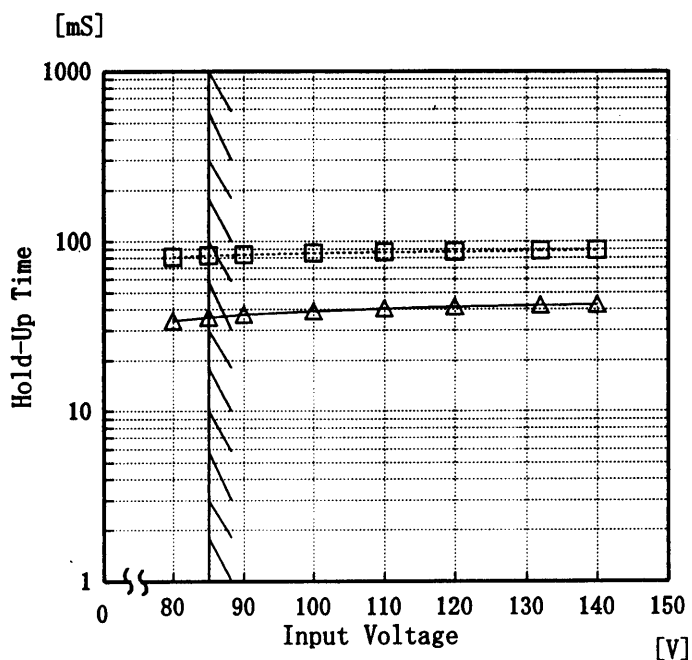
Model		PAA600F-12		Temperature		25°C																																	
Item		Power Factor 力率		Testing Circuitry		Figure A																																	
Object																																							
1. Graph				2. Values																																			
<p>Legend:          □ load 50%          △ load 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>0.99</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>1.00</td></tr> <tr><td>120</td><td>0.98</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	0.99	1.00	100	0.98	1.00	110	0.98	1.00	120	0.98	0.99	132	0.97	0.99	140	0.97	0.99
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	0.99	1.00																																					
100	0.98	1.00																																					
110	0.98	1.00																																					
120	0.98	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-12
Item	Hold-Up Time 出力保持時間
Object	+12V53A

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

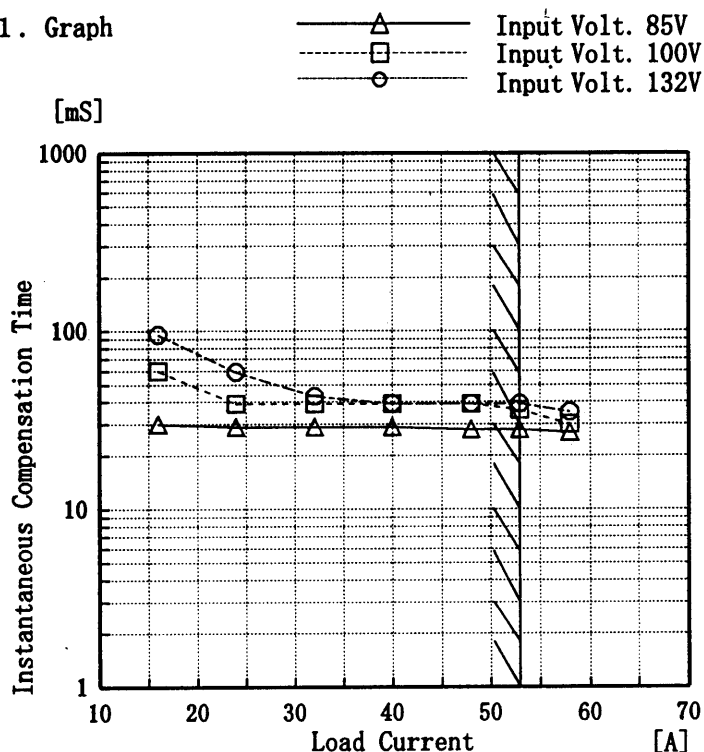
Input Voltage [V]	Load 50%	Load 100%
	Hold-Up Time [mS]	Hold-Up Time [mS]
75	-	-
80	81	34
85	83	36
90	84	37
100	85	39
110	86	40
120	87	42
132	88	42
140	89	43



Model	PAA600F-12
Item	Instantaneous Interruption Compensation 瞬時停電保障
Object	+12V53A

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]		
8.0	80	137	187
16.0	30	60	95
24.0	29	39	59
32.0	29	39	43
40.0	29	39	39
48.0	28	39	39
53.0	28	36	39
58.0	27	30	35

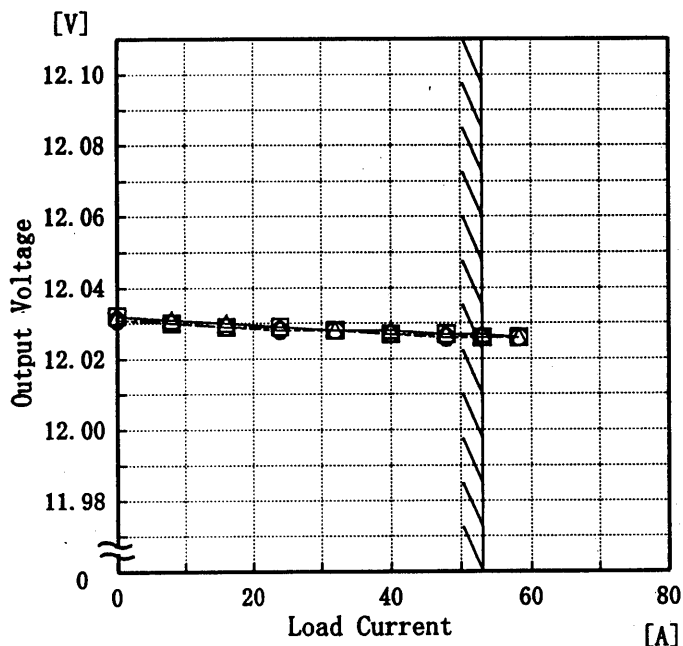
# COSEL

Model	PAA600F-12
Item	Load Regulation 靜的負荷變動
Object	+12V53A

Temperature 25°C  
Testing Circuitry Figure A

1. Graph

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



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。

2. Values

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	12.032	12.032	12.031
8.0	12.031	12.030	12.030
16.0	12.030	12.029	12.029
24.0	12.029	12.029	12.028
32.0	12.028	12.028	12.028
40.0	12.028	12.027	12.027
48.0	12.027	12.027	12.026
53.0	12.027	12.026	12.026
58.3	12.026	12.026	12.026
—	—	—	—



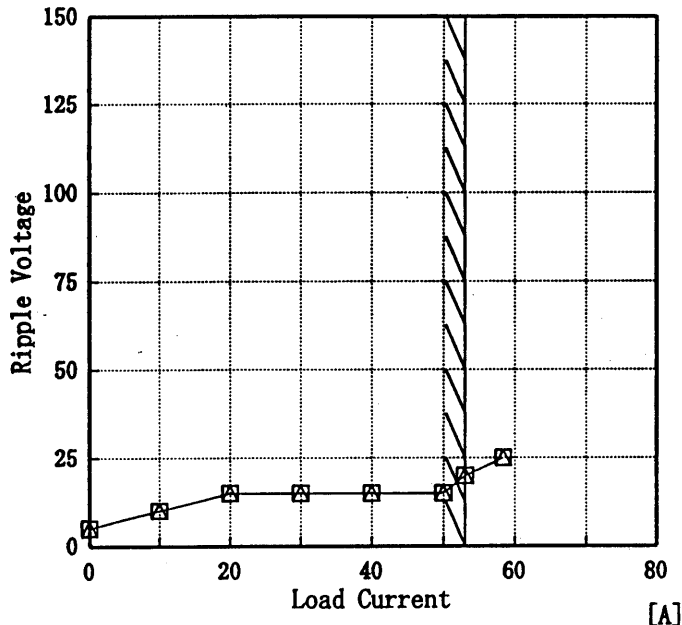
# COSEL

Model	PAA600F-12
Item	Ripple Voltage (by Load Current) リップル電圧 (負荷電流特性)
Object	+12V53A

Temperature 25°C  
Testing Circuitry Figure A

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

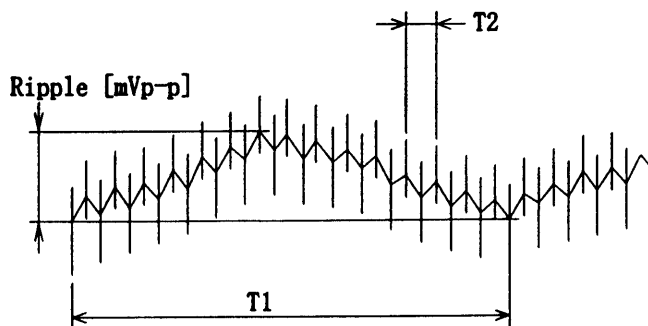


Fig. Complex Ripple Wave Form  
図 リップル波形詳細図

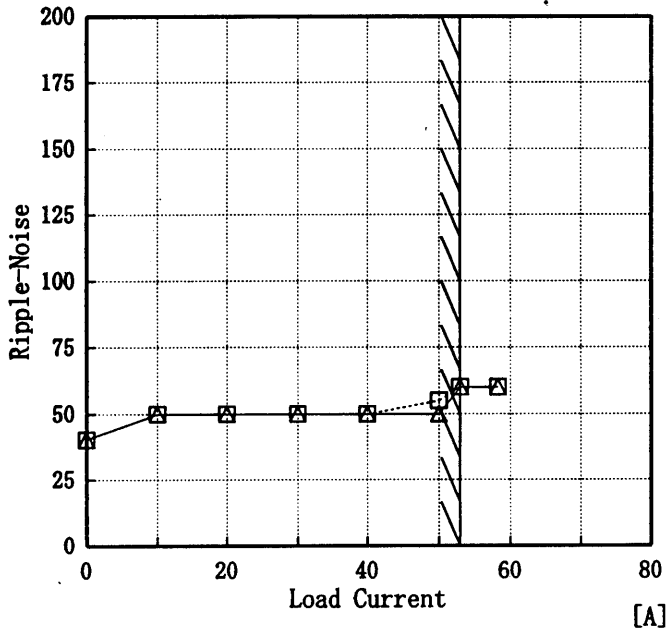
2. Values

Load Current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]
	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]
0.0	5	5
10.0	10	10
20.0	15	15
30.0	15	15
40.0	15	15
50.0	15	15
53.0	20	20
58.3	25	25



Model	PAA600F-12	Temperature	25°C
Item	Ripple-Noise リップルノイズ	Testing Circuitry	Figure A
Object	+12V 53A		

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



2. Values

Load current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]
	Ripple-Noise [mV]	Ripple-Noise [mV]
0.0	40	40
10.0	50	50
20.0	50	50
30.0	50	50
40.0	50	50
50.0	55	50
53.0	60	60
58.3	60	60

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

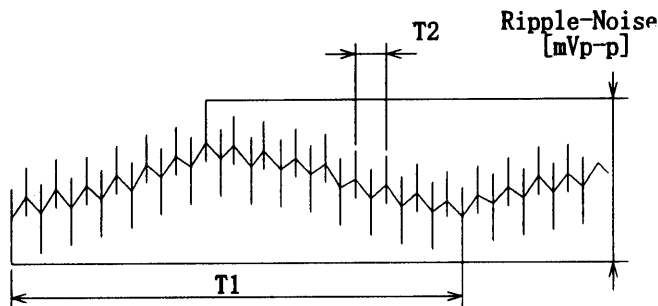


Fig. Complex Ripple Wave Form  
 図 リップル波形詳細図



<p>Model PAA600F-12</p> <p>Item Overcurrent Protection 過電流保護</p> <p>Object +12V53A</p>		<p>Temperature 25°C</p> <p>Testing Circuitry Figure A</p>																														
<p>1. Graph</p> <p>[V]</p> <p>20</p> <p>15</p> <p>10</p> <p>5</p> <p>0</p> <p>Output Voltage</p> <p>0 20 40 60 80</p> <p>Load Current [A]</p> <p>                     _____ Input Volt. 85 V                      _____ Input Volt. 100 V                      _____ Input Volt. 132 V                 </p>	<p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Output Voltage [V]</th> <th>Input Volt. 85[V]</th> <th>Input Volt. 100[V]</th> <th>Input Volt. 132[V]</th> </tr> <tr> <th>Load Current [A]</th> <th>Load Current [A]</th> <th>Load Current [A]</th> </tr> </thead> <tbody> <tr> <td>12.00</td> <td>64.14</td> <td>63.84</td> <td>63.65</td> </tr> <tr> <td>11.40</td> <td>64.80</td> <td>65.00</td> <td>65.17</td> </tr> <tr> <td>10.80</td> <td>65.33</td> <td>65.47</td> <td>65.69</td> </tr> <tr> <td>9.60</td> <td>66.60</td> <td>66.75</td> <td>67.03</td> </tr> <tr> <td>8.40</td> <td>68.40</td> <td>68.59</td> <td>68.88</td> </tr> <tr> <td>7.20</td> <td>70.48</td> <td>70.58</td> <td>70.87</td> </tr> </tbody> </table>	Output Voltage [V]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	Load Current [A]	Load Current [A]	Load Current [A]	12.00	64.14	63.84	63.65	11.40	64.80	65.00	65.17	10.80	65.33	65.47	65.69	9.60	66.60	66.75	67.03	8.40	68.40	68.59	68.88	7.20	70.48	70.58	70.87
Output Voltage [V]	Input Volt. 85[V]		Input Volt. 100[V]	Input Volt. 132[V]																												
	Load Current [A]	Load Current [A]	Load Current [A]																													
12.00	64.14	63.84	63.65																													
11.40	64.80	65.00	65.17																													
10.80	65.33	65.47	65.69																													
9.60	66.60	66.75	67.03																													
8.40	68.40	68.59	68.88																													
7.20	70.48	70.58	70.87																													
<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> <p>7V以下は間欠モードにはいる。</p>																																

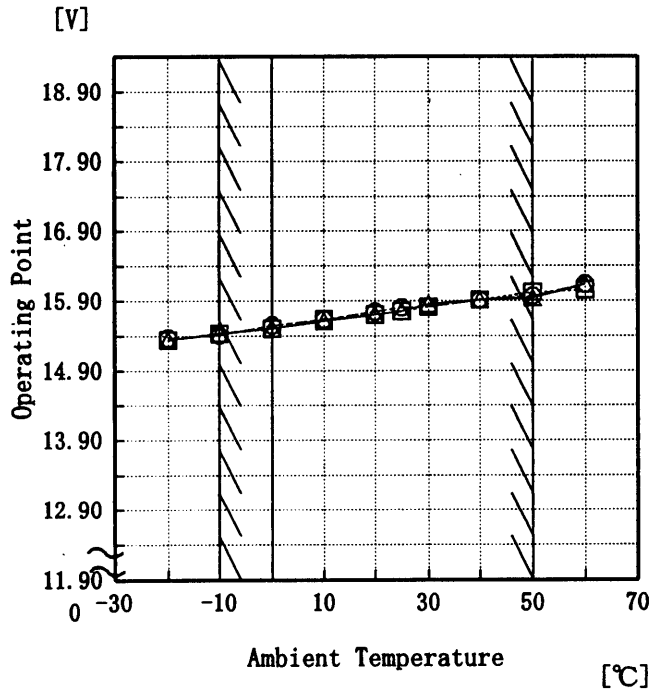


Model	PAA600F-12
Item	Overvoltage Protection 過電圧保護
Object	+12V53A

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.

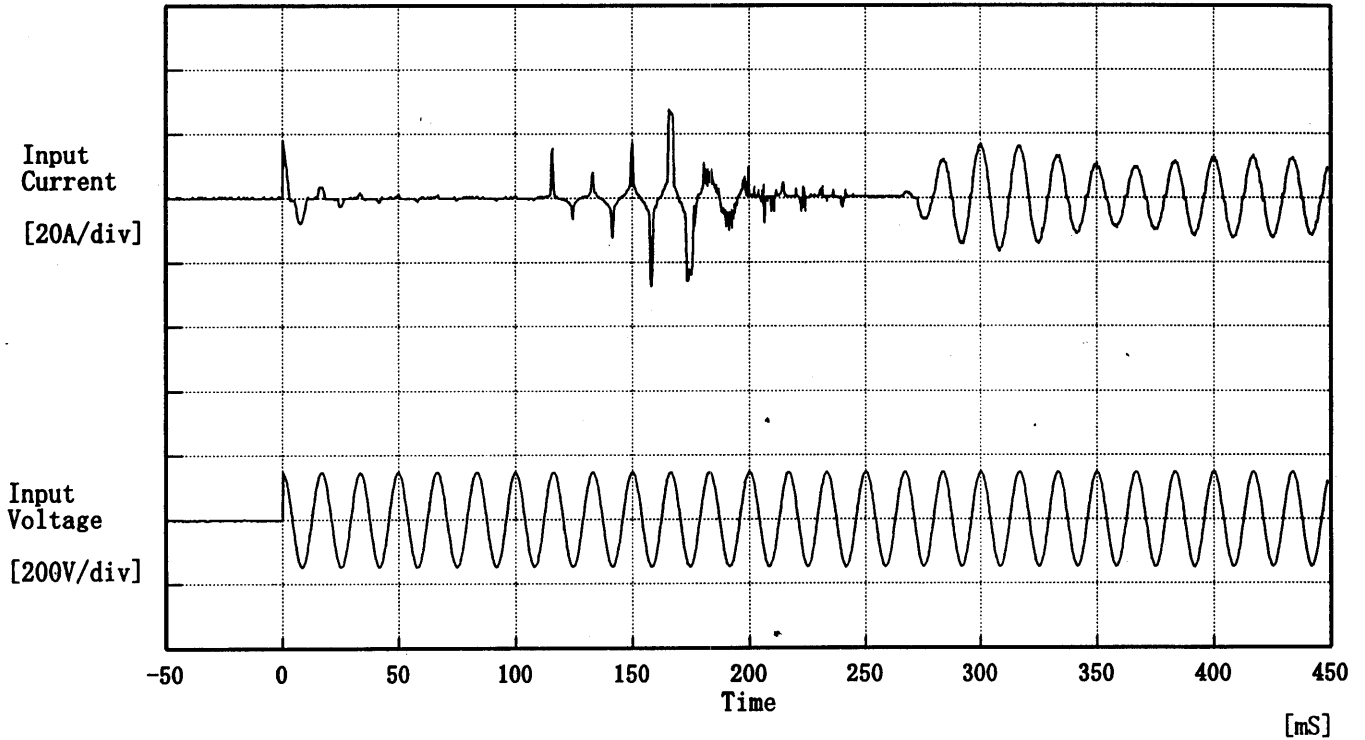
(注) 斜線は定格周囲温度範囲を示す。

2. Values

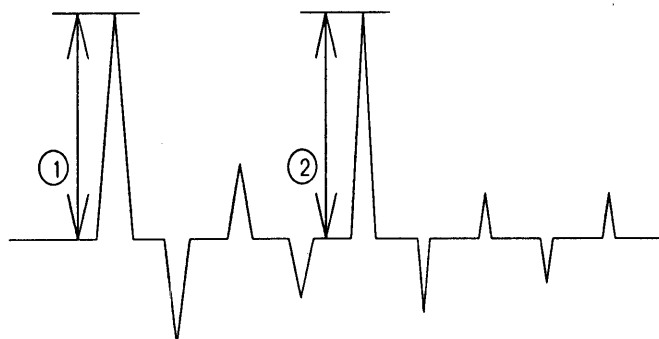
Ambient Temp. [°C]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Operating Point [V]		
-20	15.34	15.34	15.37
-10	15.44	15.43	15.41
0	15.51	15.50	15.55
10	15.61	15.63	15.63
20	15.70	15.70	15.74
25	15.75	15.75	15.80
30	15.85	15.81	15.81
40	15.91	15.91	15.91
50	15.94	16.02	15.97
60	16.14	16.06	16.14
—	—	—	—

# COSEL

<b>Model</b>		PAA600F-12	
<b>Item</b>	Inrush Current 突入電流	<b>Temperature</b>	25°C
<b>Object</b>	_____	<b>Testing Circuitry</b>	Figure A



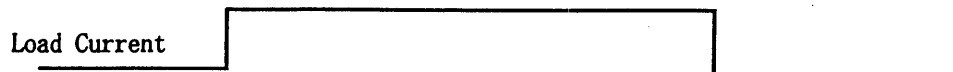
Input Voltage 100 V  
 Frequency 60 Hz  
 Load 100 %  
 Inrush Current  
 ① 18.00 [A]  
 ② 27.60 [A]



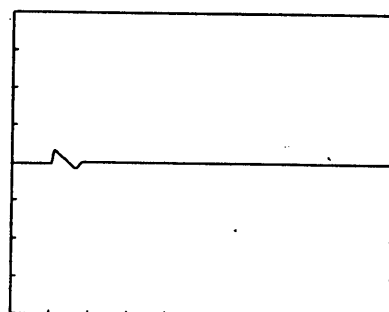
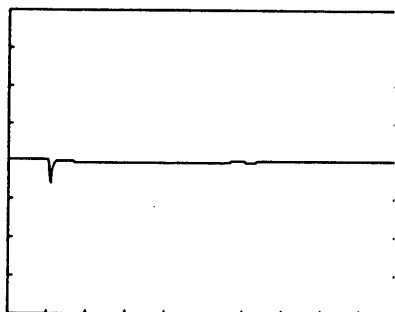
# COSEL

Model	PAA600F-12	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	+12V 53A	

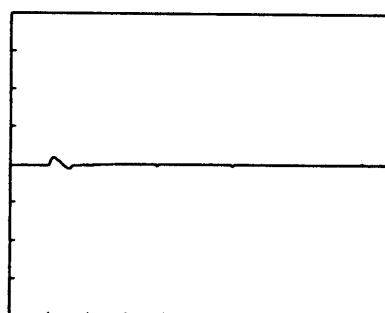
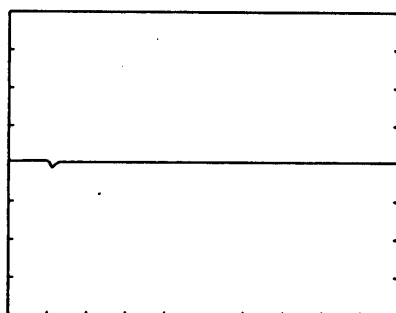
Input Volt. 100 V  
Cycle 200 mS



Load 0% ↔  
Load 100 %



Load 0% ↔  
Load 50 %



100 mV/div

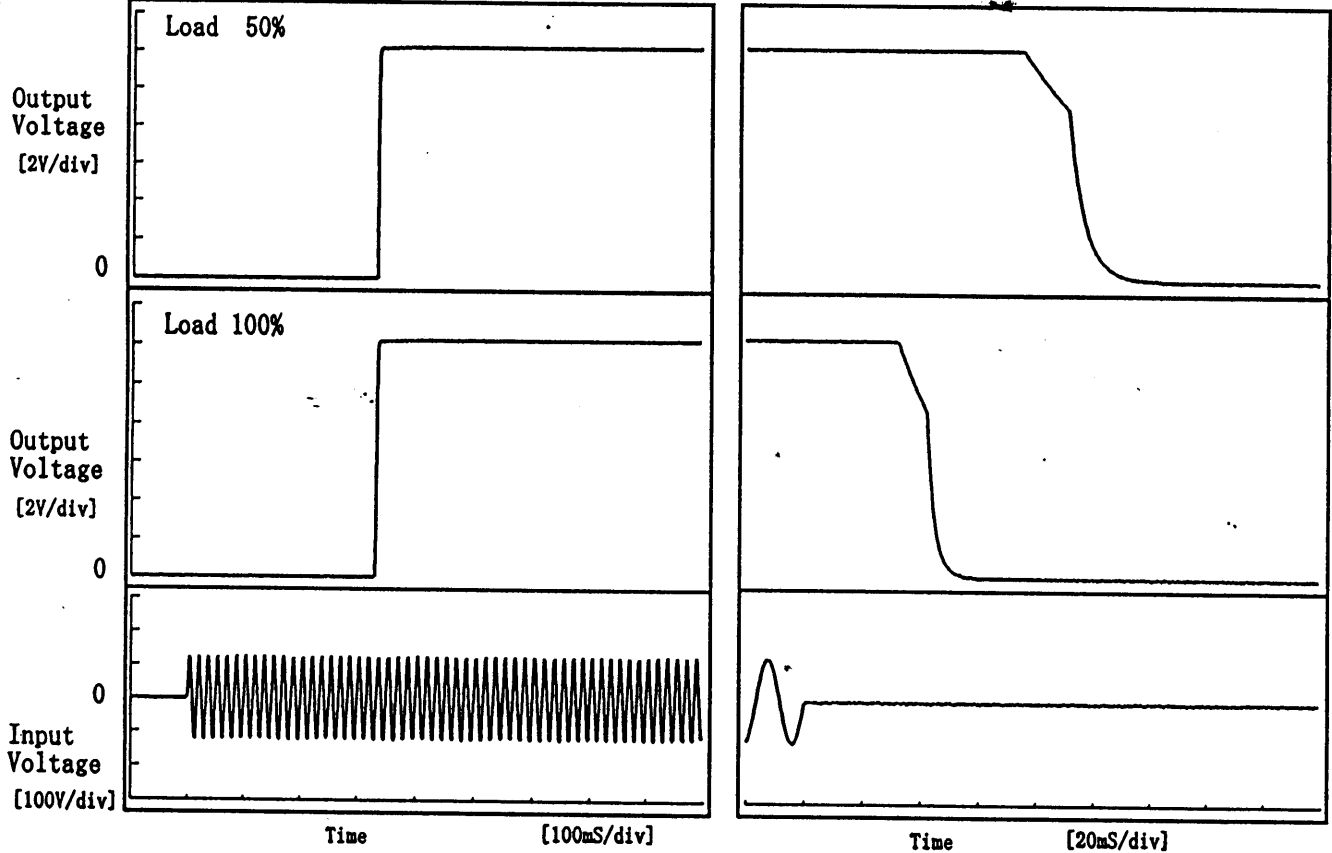
10 mS/div

# COSEL

Model	PAA600F-12	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+12V53A		

1. Graph

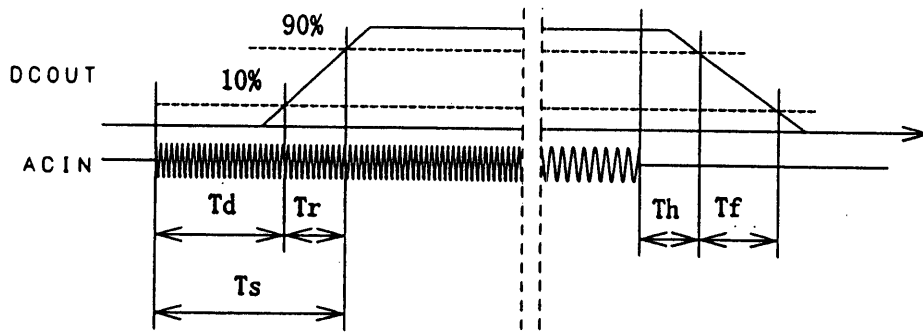
Input Volt. 85 V



2. Values

[mS]

Load \ Time	T <sub>d</sub>	T <sub>r</sub>	T <sub>s</sub>	T <sub>h</sub>	T <sub>f</sub>
50 %	333.0	2.0	335.0	82.4	20.0
100 %	332.0	3.0	335.0	36.2	11.8



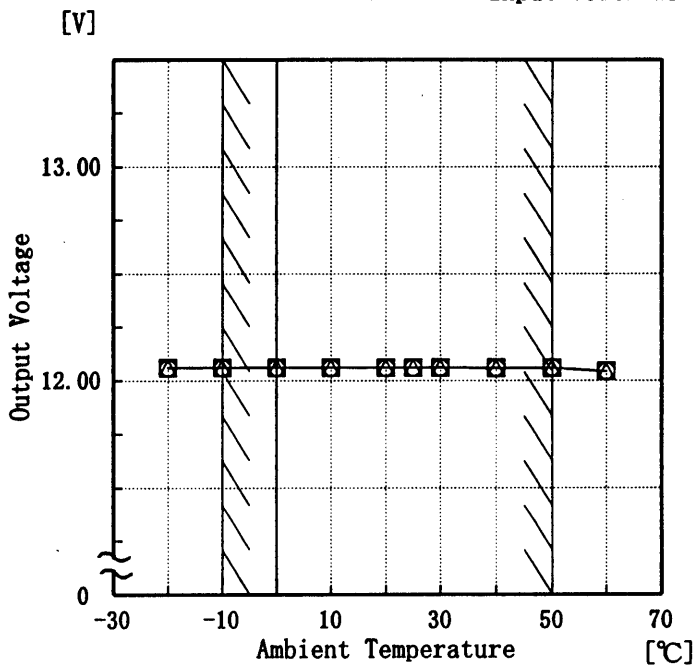
# COSEL

Model	PAA600F-12
Item	Ambient Temperature Drift 周囲温度変動
Object	+12V53A

Testing Circuitry Figure A

1. Graph

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



Load 100%

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

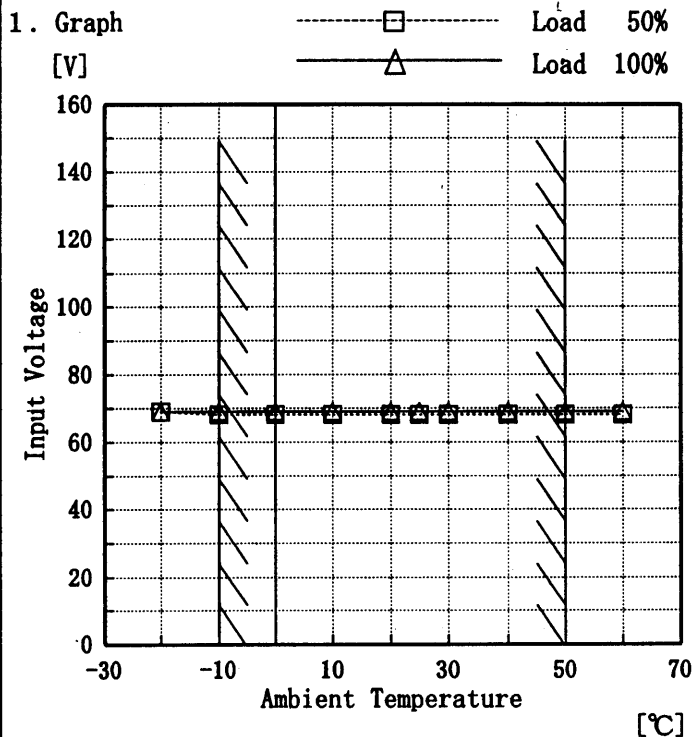
Temperature [°C]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]
-20	12.063	12.063	12.063
-10	12.063	12.063	12.063
0	12.063	12.063	12.063
10	12.063	12.063	12.063
20	12.062	12.063	12.063
25	12.062	12.062	12.062
30	12.062	12.062	12.062
40	12.061	12.062	12.062
50	12.061	12.061	12.062
60	12.045	12.047	12.047





Model	PAA600F-12
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	+12V53A

Testing Circuitry Figure A



2. Values

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

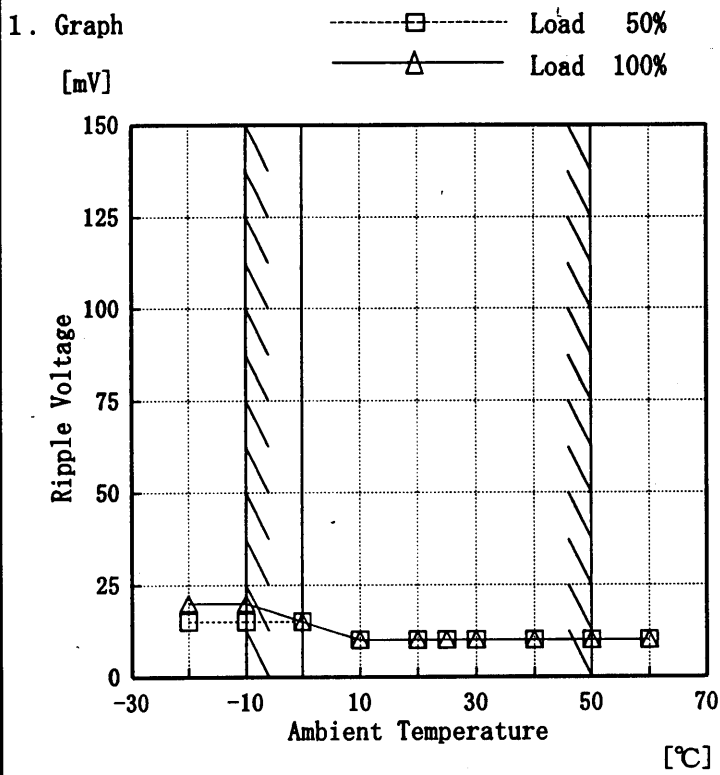
Note: Slanted line shows the range of the rated ambient temperature.

(注)斜線は定格周囲温度範囲を示す。

# COSEL

Model	PAA600F-12
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)
Object	+12V 53A

Testing Circuitry Figure A



2. Values

Ambient Temp. [°C]	Load 50%	Load 100%
	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]
-20	15	20
-10	15	20
0	15	15
10	10	10
20	10	10
25	10	10
30	10	10
40	10	10
50	10	10
60	10	10
—	—	—

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

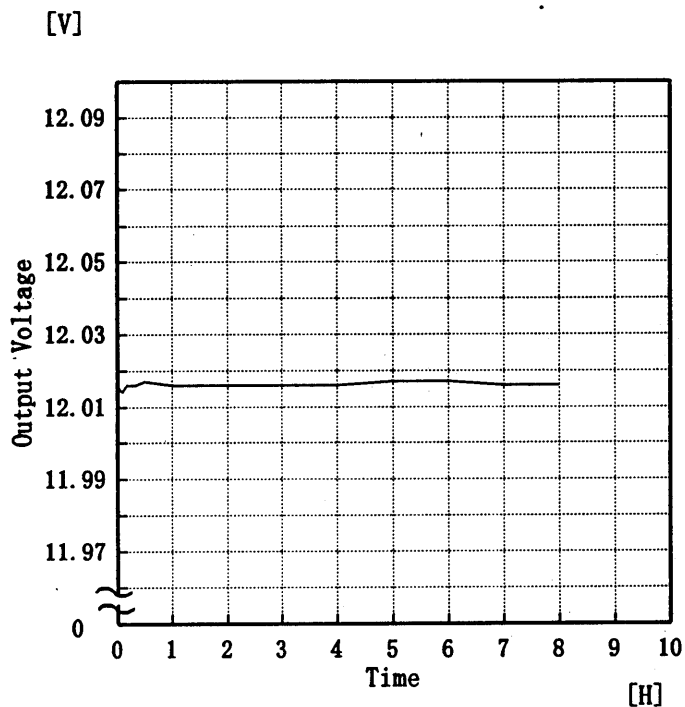
(注) 斜線は定格周囲温度範囲を示す。

# COSEL

Model	PAA600F-12
Item	Time Lapse Drift 経時ドリフト
Object	+12V53A

Temperature 25 °C  
 Testing Circuitry Figure A

1. Graph



2. Values

Time since start [H]	Output Voltage [V]
0.0	12.017
0.5	12.017
1.0	12.016
2.0	12.016
3.0	12.016
4.0	12.016
5.0	12.017
6.0	12.017
7.0	12.016
8.0	12.016



Model		PAA600F-12	Testing Circuitry Figure A
Item		Output Voltage Accuracy 定電圧精度	
Object		+12V53A	

**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 : 0~53 A

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

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

**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 0~53 A

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

\* 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 (Ratio) [%]
Maximum Voltage	-10	132	0	12.058	±26	±0.217
Minimum Voltage	50	85	53	12.006		

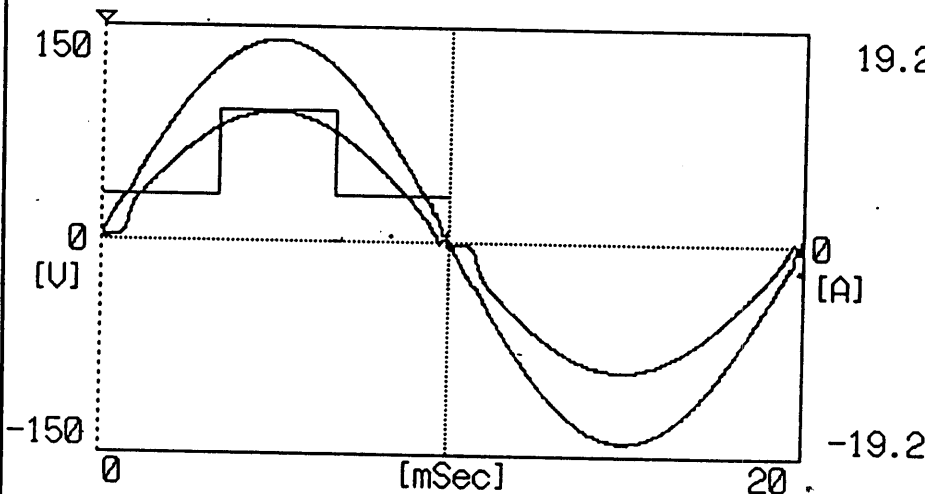
# COSEL

Model	PAA600F-12	Temperature	25°C
Item	Harmonic Current 高調波電流	Testing Circuitry	Figure E
Object			

1. Input Current Waveform

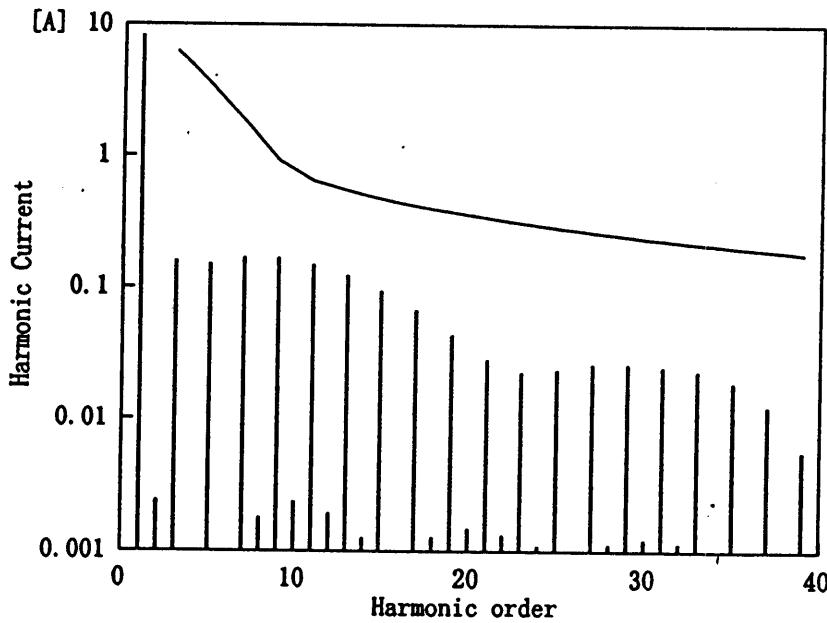
— Input Current.  
 — Envelope of the input current to classify equipment as Class D  
 Class Dの機器を決定するための入力電流包絡線

2 A/div



Conditions	Values
Input Voltage [V]	100
Input Current [A]	8.24
Active Power [W]	800.4
Apparent Power [VA]	803.3
Frequency [Hz]	60
Power Factor	0.996
Output Power [W]	636

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	8.22800
2	—	0.00243
3	6.25913	0.15929
4	—	0.00093
5	3.49775	0.15191
6	—	0.00081
7	1.84092	0.16942
8	—	0.00179
9	0.92046	0.16728
10	—	0.00239
11	0.64432	0.14957
12	—	0.00194
13	0.54520	0.12375
14	—	0.00127
15	0.47250	0.09493
16	—	0.00084
17	0.41691	0.06703
18	—	0.00128
19	0.37303	0.04366
20	—	0.00149
21	0.33750	0.02872
22	—	0.00133
23	0.30815	0.02284
24	—	0.00110
25	0.28350	0.02397
26	—	0.00084
27	0.26250	0.02651
28	—	0.00113
29	0.24440	0.02650
30	—	0.00123
31	0.22863	0.02524
32	—	0.00115
33	0.21477	0.02323
34	—	0.00096
35	0.20250	0.01885
36	—	0.00087
37	0.19156	0.01265
38	—	0.00097
39	0.18173	0.00576
40	—	0.00124



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

# COSEL

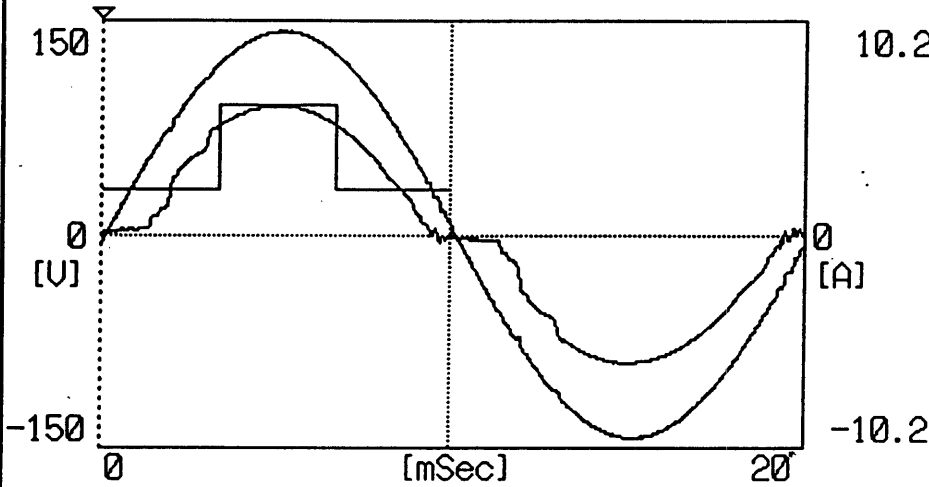
Model	PAA600F-12	Temperature	25°C
Item	Harmonic Current 高調波電流	Testing Circuitry	Figure E
Object			

1. Input Current Waveform

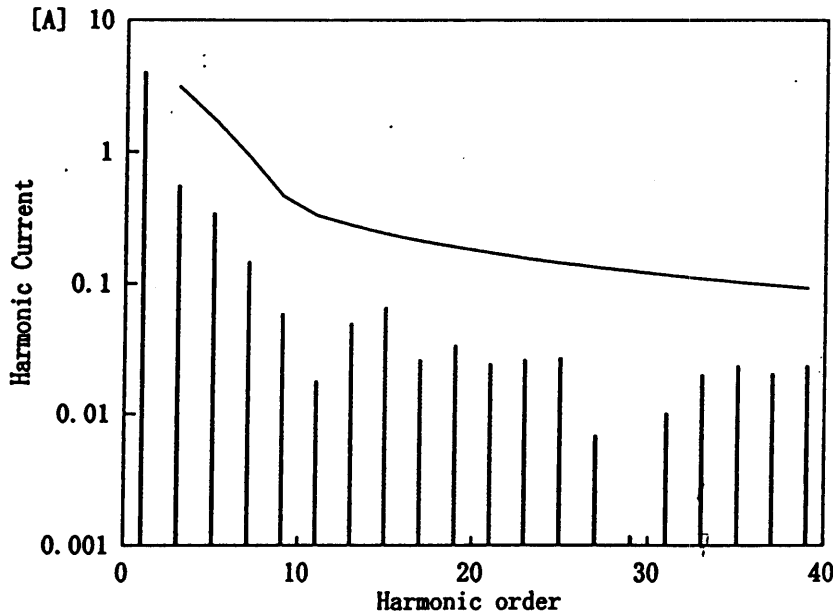
— Input Current  
 — Envelope of the input current to classify equipment as Class D  
 クラスDの機器を決定するための入力電流包絡線

2 A/div

Conditions	Values
Input Voltage [V]	100
Input Current [A]	4.16
Active Power [W]	404.9
Apparent Power [VA]	411.8
Frequency [Hz]	60
Power Factor	0.983
Output Power [W]	318



Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	4.09100
2	—	0.00064
3	3.16632	0.56004
4	—	0.00023
5	1.76941	0.34516
6	—	0.00029
7	0.93127	0.14861
8	—	0.00022
9	0.46564	0.05912
10	—	0.00020
11	0.32594	0.01798
12	—	0.00013
13	0.27580	0.04993
14	—	0.00016
15	0.23903	0.06615
16	—	0.00022
17	0.21091	0.02636
18	—	0.00023
19	0.18870	0.03379
20	—	0.00009
21	0.17073	0.02454
22	—	0.00018
23	0.15589	0.02651
24	—	0.00015
25	0.14342	0.02751
26	—	0.00024
27	0.13279	0.00686
28	—	0.00026
29	0.12363	0.00118
30	—	0.00011
31	0.11566	0.01020
32	—	0.00031
33	0.10865	0.02009
34	—	0.00029
35	0.10244	0.02383
36	—	0.00022
37	0.09690	0.02065
38	—	0.00023
39	0.09193	0.02374
40	—	0.00032



— 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-12	Testing Circuitry	Figure A
Item	Condensation 結露特性		
Object	+12V53A		

## 1. Condensation test

Testing procedure is as follows.

- ① Keeping and cooling the unit in a tank at  $-10^{\circ}\text{C}$  for an hour with the input off.
- ② Taking it out of the tank and dewing itself in a room where the temperature is  $25^{\circ}\text{C}$  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 $-10^{\circ}\text{C}$ に冷却しておき、約1時間後に恒温槽から取り出し、室温 $25^{\circ}\text{C}$ 、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	12.020	20	55
	2	12.020	20	55
	3	12.020	20	55
Load 100 %	1	12.020	20	65
	2	12.020	20	65
	3	12.020	20	65

Input Volt. 100 V

# COSEL

Model		PAA600F-12	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	0.19	0.21
(B) UL	0.19	0.19	0.21
(C) CSA	0.19	0.19	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 兩相について測定し、その大きい方を漏洩電流測定値とする。

Load 100 %



# COSEL

Model		PAA600F-12	Testing Circuitry	Figure C
Item		Line Noise Tolerance 入力雑音耐量		
Object		+12V53A		

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	15.75	no regulation
	NORMAL	15.75	no regulation
1000	COMMON	15.75	no regulation
	NORMAL	15.75	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-12	Testing Circuitry Figure D
Item	Conducted Emission 雑音端子電圧	
Object		

1. Graph

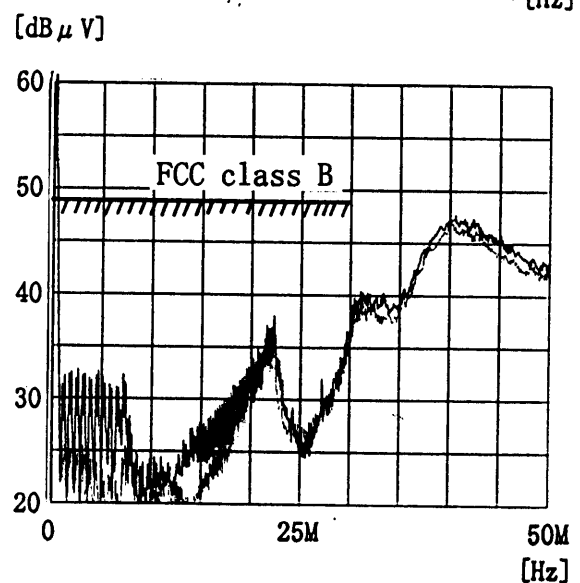
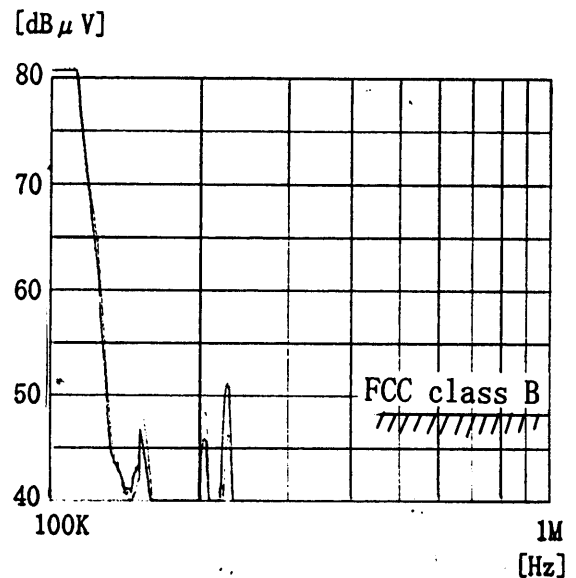
Remarks

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



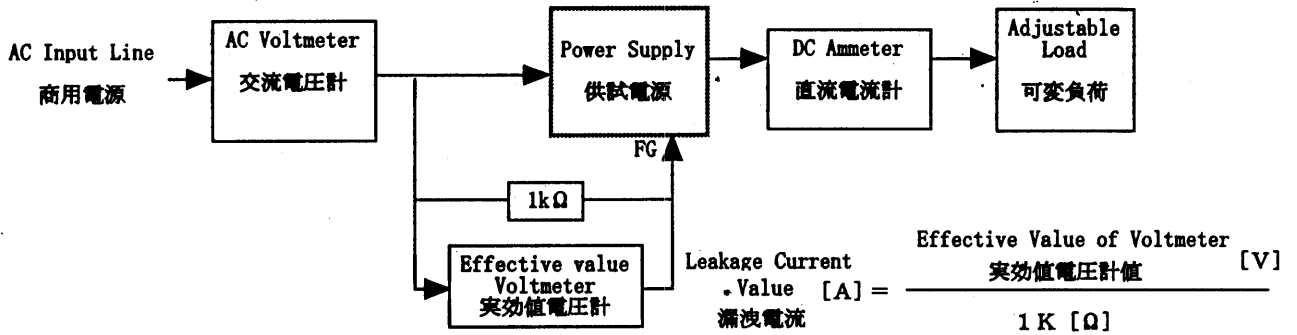
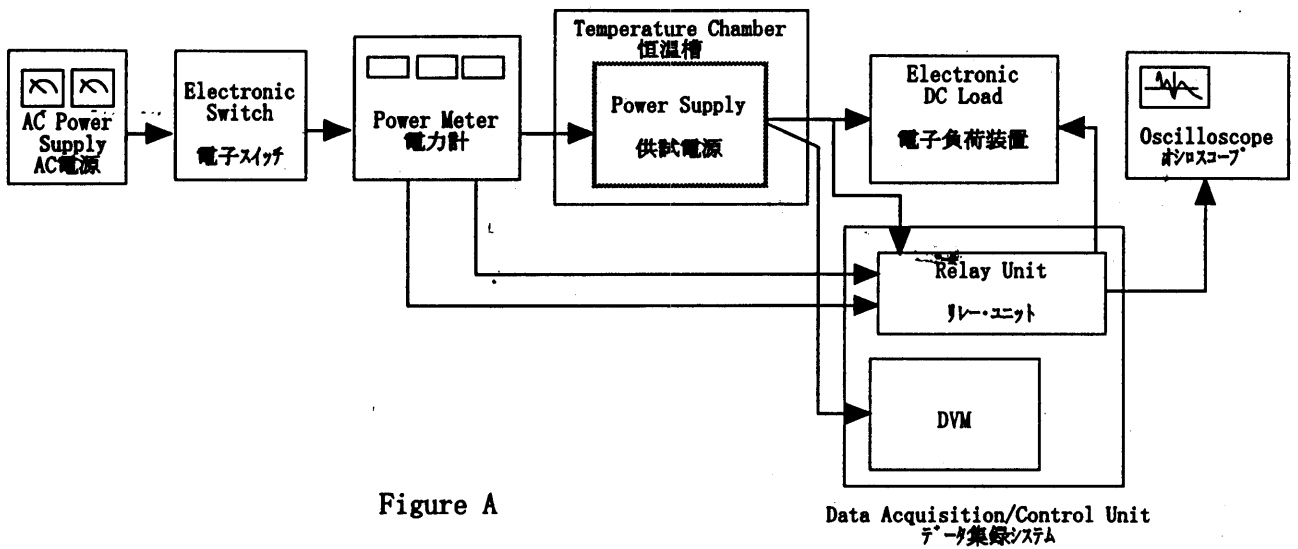


Figure B (DENTORI)

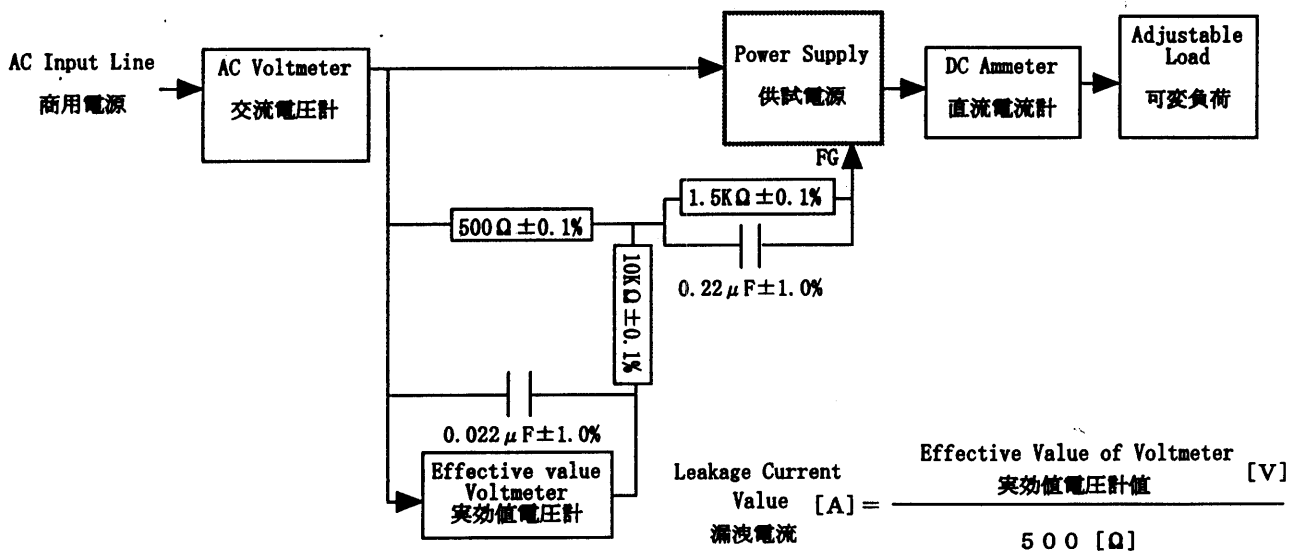


Figure B (UL, CSA, VDE)

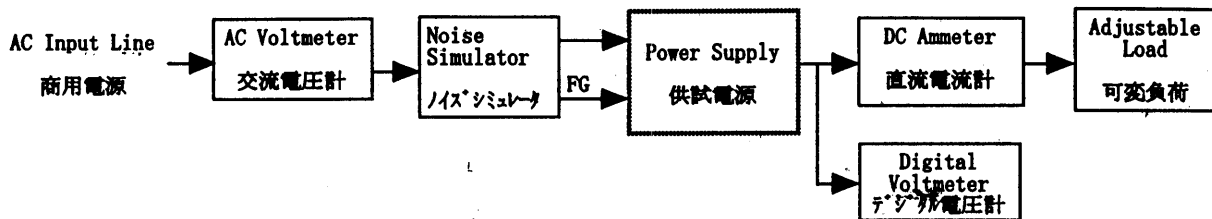


Figure C

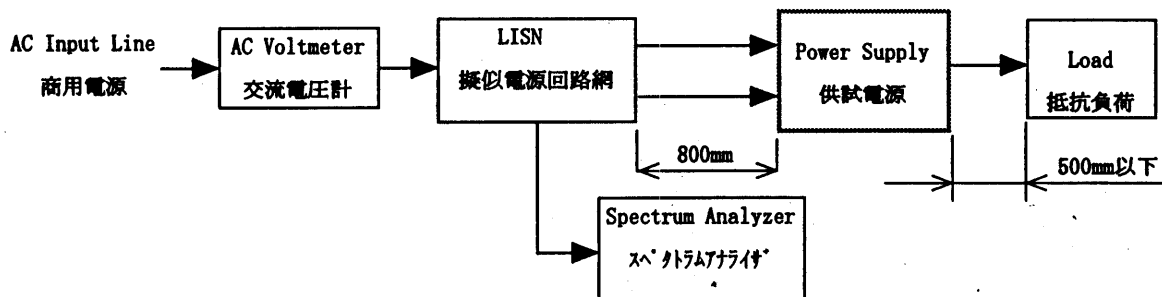


Figure D

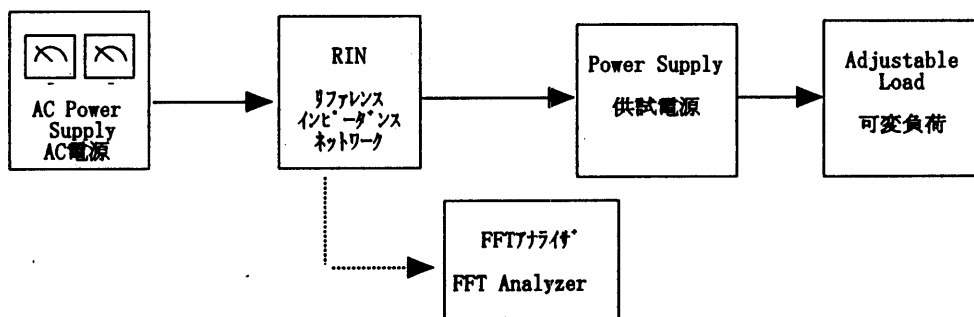


Figure E