参考資料

COSEL

TEST DATA OF PAA600F-3

(100V INPUT)

Regulated DC Power Supply

Date : Mar.5. 1998

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COSEL CO.,LTD.

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Object	+3V120A

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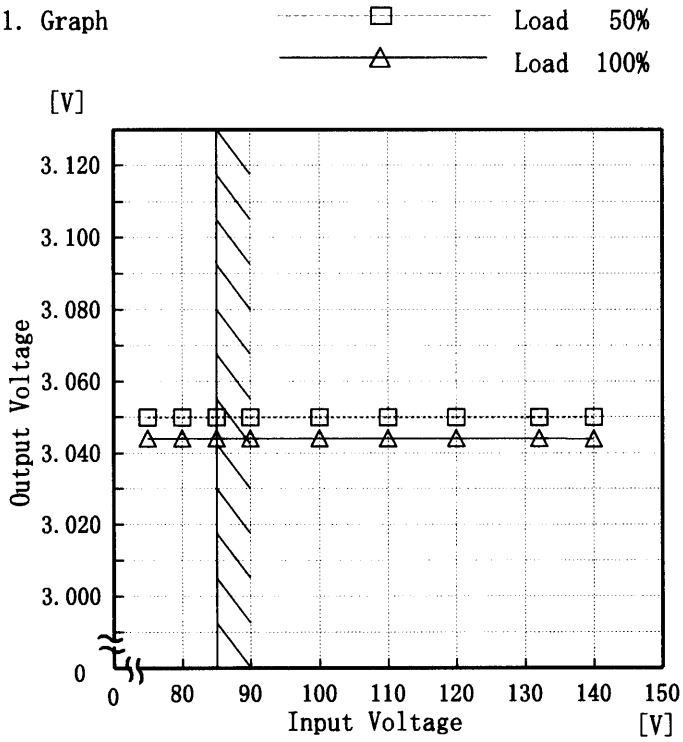
1. Graph



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% Output Volt. [V]	Load 100% Output Volt. [V]
75	3.050	3.044
80	3.050	3.044
85	3.050	3.044
90	3.050	3.044
100	3.050	3.044
110	3.050	3.044
120	3.050	3.044
132	3.050	3.044
140	3.050	3.044

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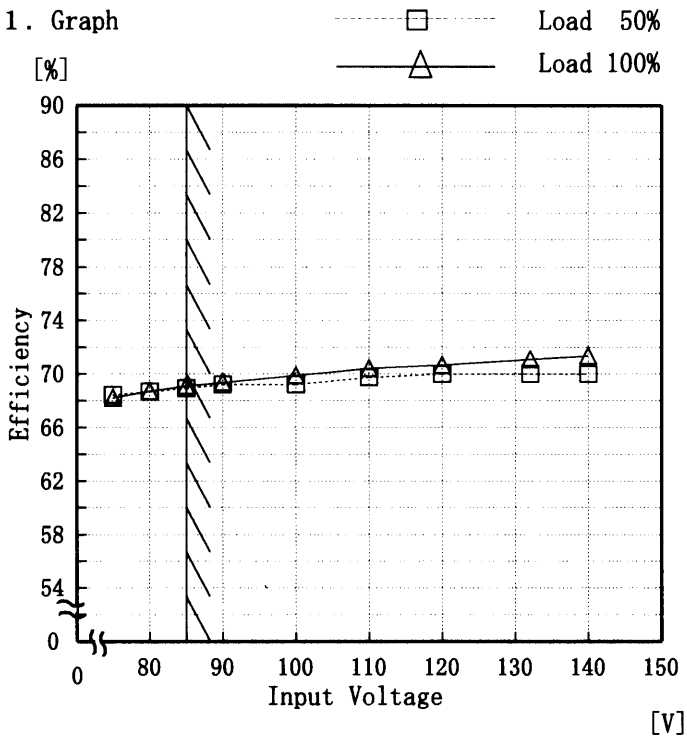
Model	PAA600F-3
Item	Efficiency 効率
Object	———————————

Temperature 25℃
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% Efficiency [%]	Load 100% Efficiency [%]
75	68.41	68.21
80	68.68	68.72
85	68.94	69.10
90	69.20	69.36
100	69.21	69.89
110	69.74	70.43
120	70.01	70.70
132	70.02	71.11
140	70.02	71.38

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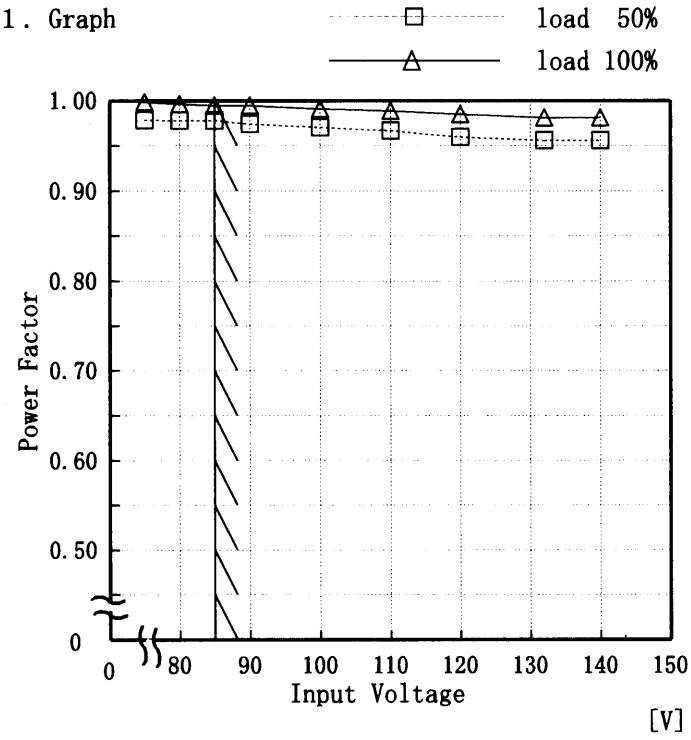
Model	PAA600F-3
Item	Power Factor 力率
Object	――――――――――――――

Temperature 25℃
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% Power Factor	load 100% Power Factor
75	0.98	1.00
80	0.98	1.00
85	0.98	0.99
90	0.97	0.99
100	0.97	0.99
110	0.97	0.99
120	0.96	0.98
132	0.96	0.98
140	0.96	0.98

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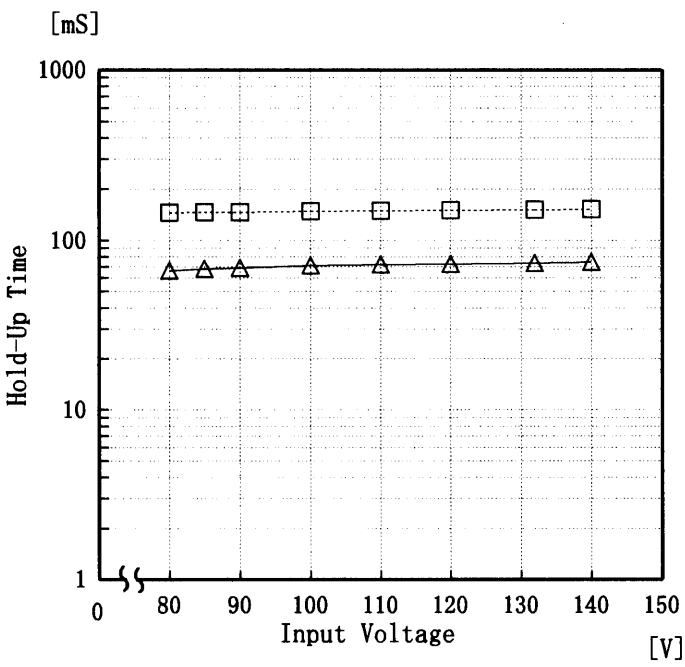
Model	PAA600F-3
Item	Hold-Up Time　出力保持時間
Object	+3V120A

Temperature　25℃
Testing Circuitry　Figure A

1. Graph



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% Hold-Up Time [mS]	Load 100% Hold-Up Time [mS]
80	145	66
85	146	68
90	147	69
100	148	71
110	150	72
120	151	73
132	152	74
140	152	74

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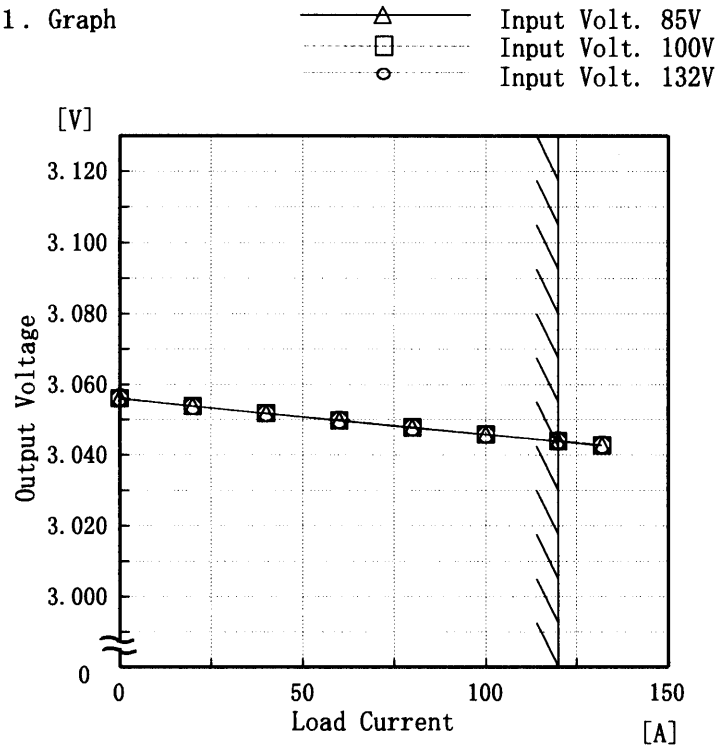
Model	PAA600F-3
Item	Load Regulation 静的負荷変動
Object	+3V120A

Temperature 25℃
Testing Circuitry Figure A

1. Graph



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] Output Volt. [V]	Input Volt. 100[V] Output Volt. [V]	Input Volt. 132[V] Output Volt. [V]
0.0	3.056	3.056	3.056
20.0	3.054	3.054	3.054
40.0	3.052	3.052	3.052
60.0	3.050	3.050	3.050
80.0	3.048	3.048	3.048
100.0	3.046	3.046	3.046
120.0	3.044	3.044	3.044
120.0	3.044	3.044	3.044
132.0	3.043	3.043	3.043
—	—	—	—

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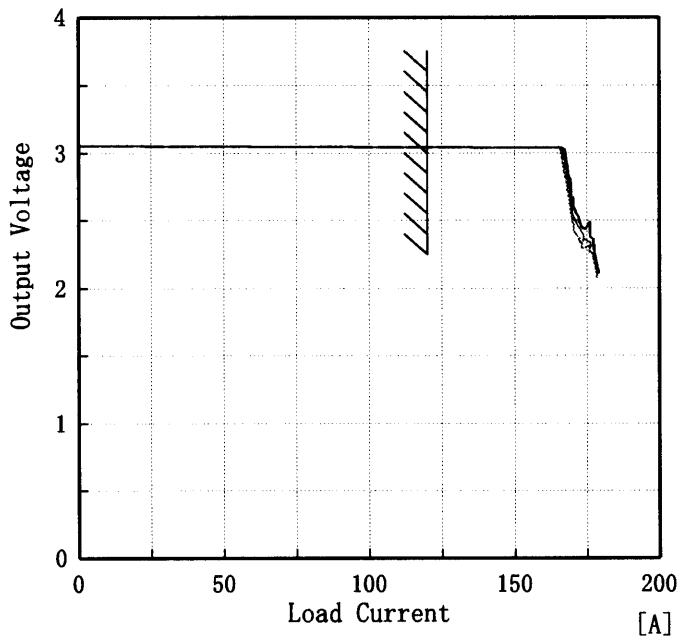
Model	PAA600F-3
Item	Overcurrent Protection 過電流保護
Object	+3V120A

Temperature 25℃
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 load current.

(注)斜線は定格負荷電流範囲を示す。

2.1V以下は間欠モードにはいる。

2. Values

Output Voltage [V]	Input Volt. 85[V] Load Current [A]	Input Volt. 100[V] Load Current [A]	Input Volt. 132[V] Load Current [A]
3.00	165.93	166.70	167.24
2.85	166.59	167.73	168.29
2.70	168.60	169.23	169.44
2.40	171.22	173.80	176.01
2.10	178.31	178.58	179.00

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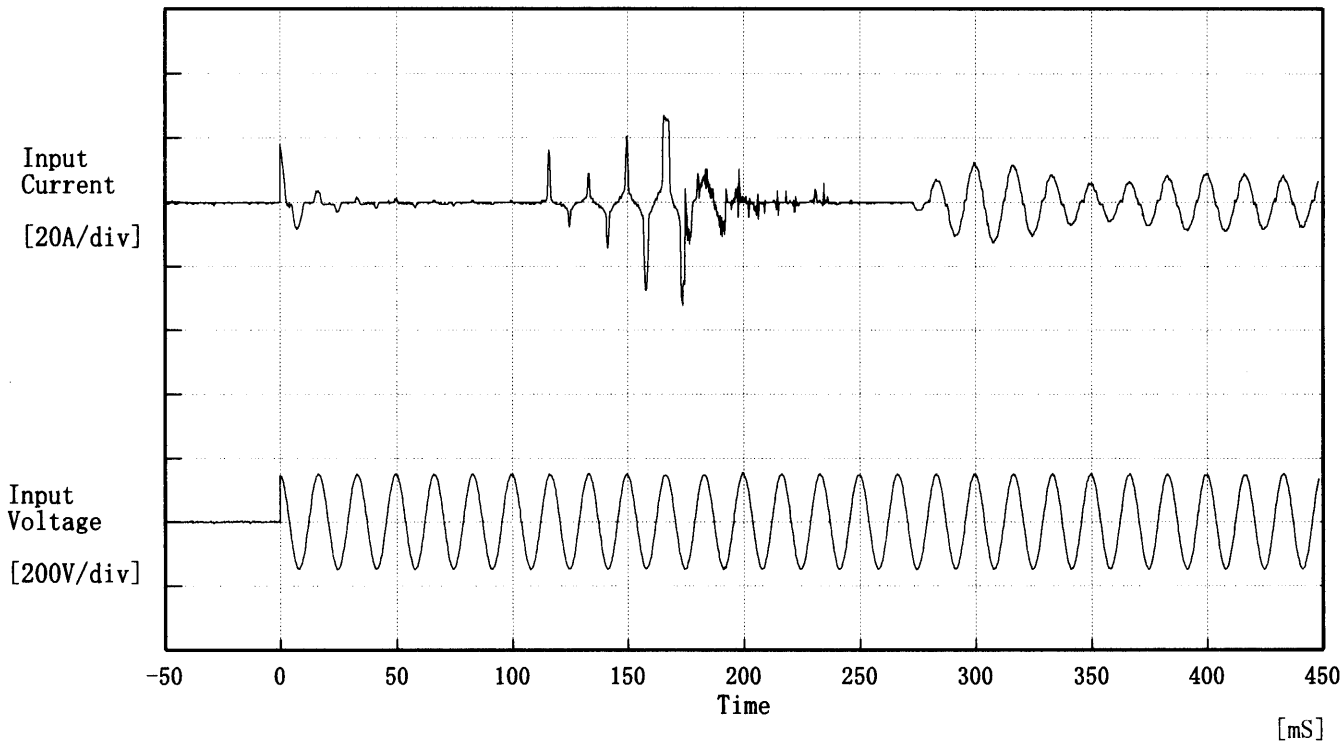
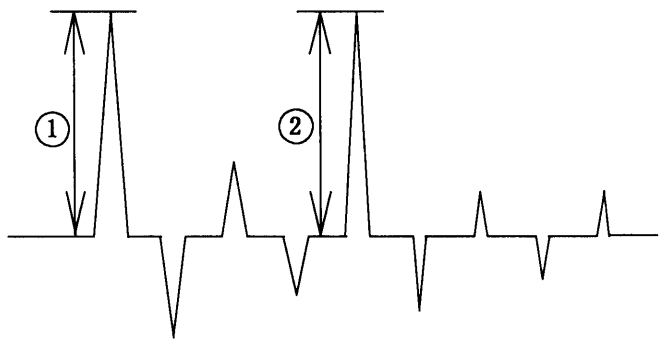
Model	PAA600F-3	
Item	Inrush Current 突入電流	Temperature 25℃ Testing Circuitry Figure A
Object	――――――――	



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



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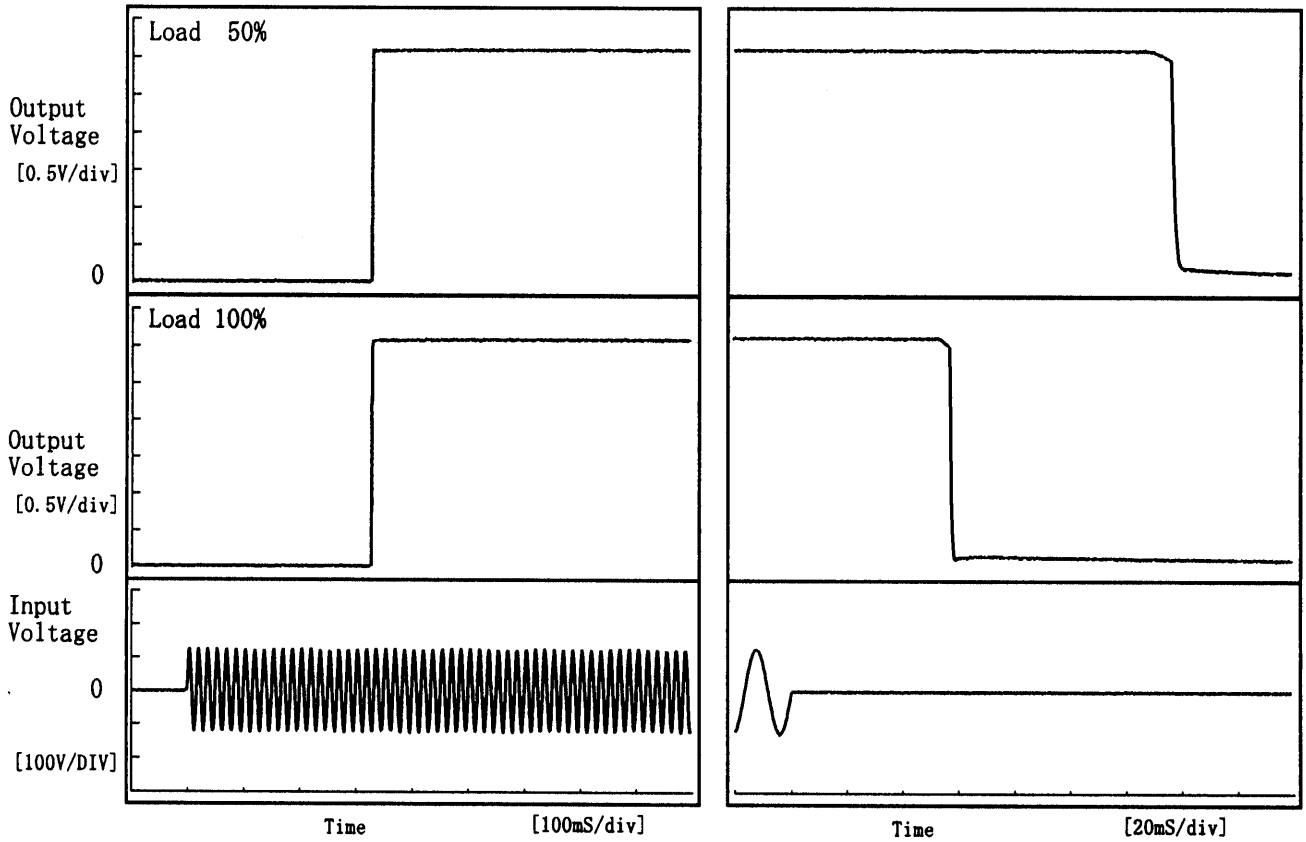
Model	PAA600F-3		
Item	Rise and Fall Time 立上り、立下り時間	Temperature	25℃
		Testing Circuitry	Figure A
Object	+3V120A		

1. Graph

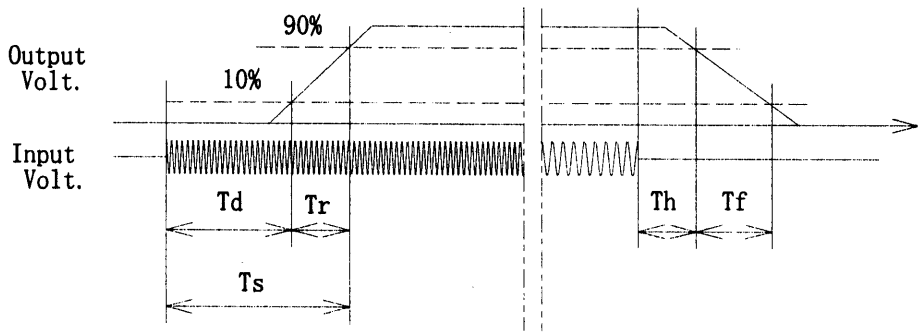
Input Volt. 85 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	328.5	0.5	329.0	136.2	2.6
100 %	328.5	1.0	329.5	57.3	1.2



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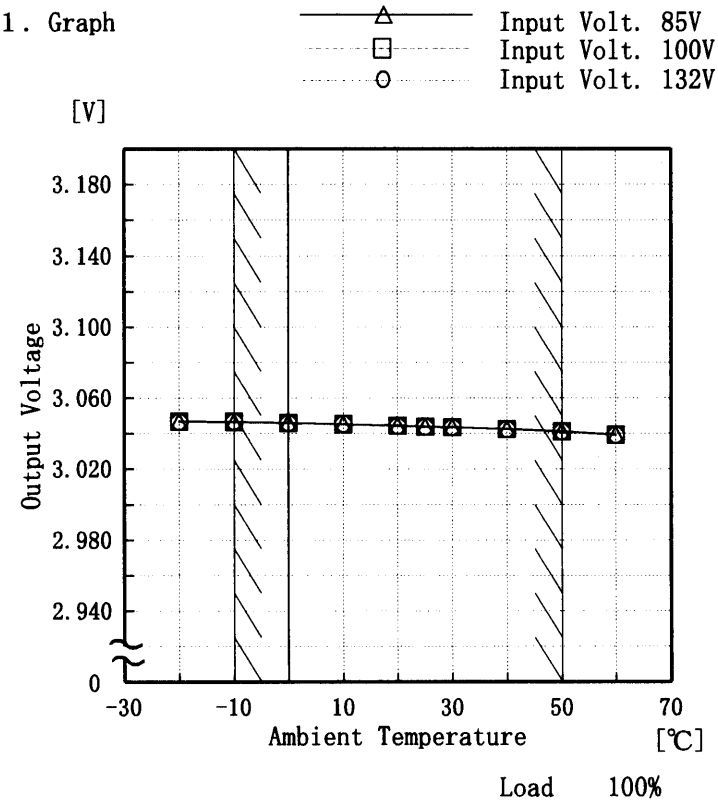
Model	PAA600F-3
Item	Ambient Temperature Drift 周囲温度変動
Object	+3V120A

Testing Circuitry Figure A

1. Graph



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 [℃]	Input Volt. 85[V] Output Volt. [V]	Input Volt. 100[V] Output Volt. [V]	Input Volt. 132[V] Output Volt. [V]
-20	3.047	3.047	3.047
-10	3.047	3.047	3.047
0	3.046	3.046	3.046
10	3.045	3.045	3.045
20	3.045	3.045	3.044
25	3.044	3.044	3.044
30	3.044	3.044	3.044
40	3.043	3.043	3.043
50	3.041	3.041	3.041
60	3.039	3.039	3.039
—	—	—	—

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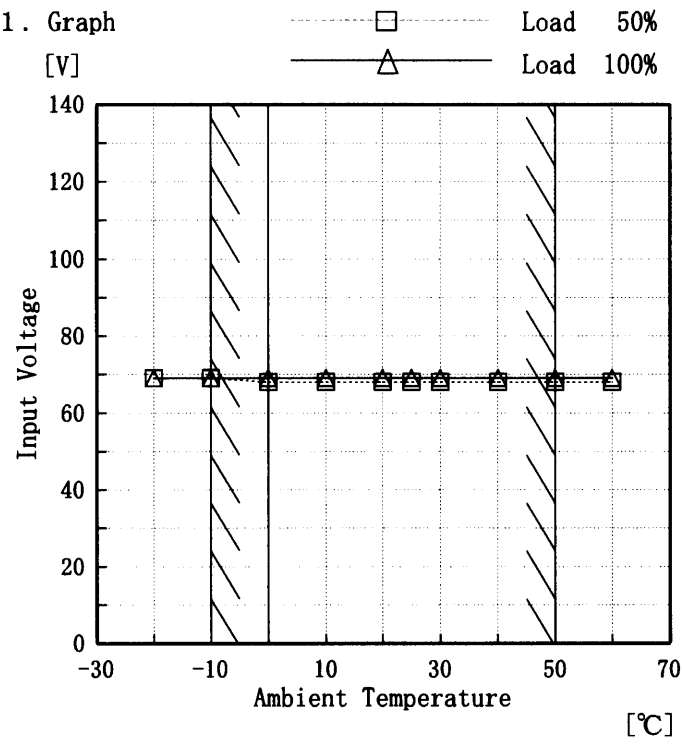
Model	PAA600F-3
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	+3V120A

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

Ambient Temp. [℃]	Load 50% Input Volt. [V]	Load 100% Input Volt. [V]
-20	69	69
-10	69	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
—	—	—

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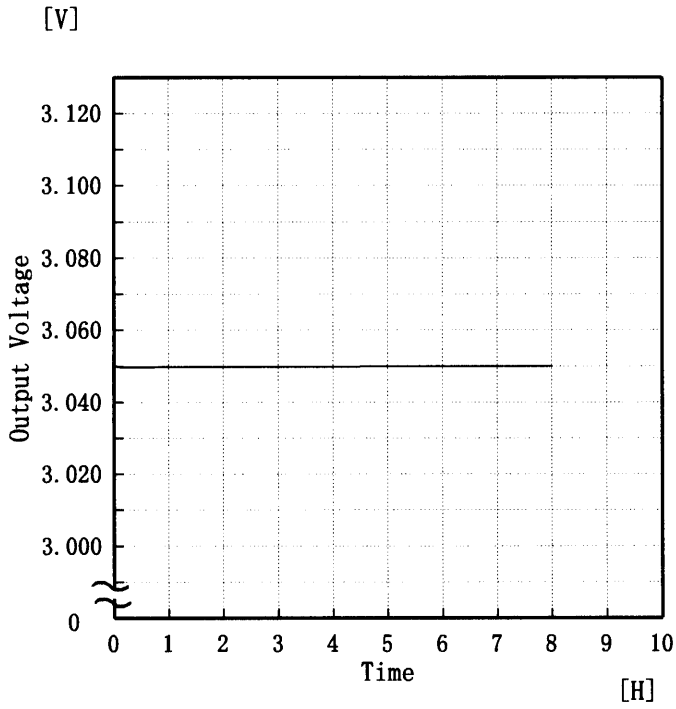
Model	PAA600F-3
Item	Time Lapse Drift 経時ドリフト
Object	+3V120A

Temperature 25 ℃
Testing Circuitry Figure A

1. Graph



Input Volt. 100V
Load 100%

2. Values

Time since start [H]	Output Voltage [V]
0.0	3.050
0.5	3.050
1.0	3.050
2.0	3.050
3.0	3.050
4.0	3.050
5.0	3.050
6.0	3.050
7.0	3.050
8.0	3.050

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Model	PAA600F-3	
Item	Output Voltage Accuracy　定電圧精度	Testing Circuitry　Figure A
Object	+3V120A	

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 ℃
Input Voltage : 85～132 V
Load Current　: 0～120 A

* Output Voltage Accuracy = ±(Maximum of Output Voltage　− 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 ℃
入力電圧　　85～132 V
負過電流　　0～120 A

* 定電圧精度(変動値) ＝ ±(出力電圧の最高値－出力電圧の最低値)／2

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

Item	Temperature [℃]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy (Ration) [%]
Maximum Voltage	-10	132	0	3.058	±8	±0.283
Minimum Voltage	50	132	120	3.041		

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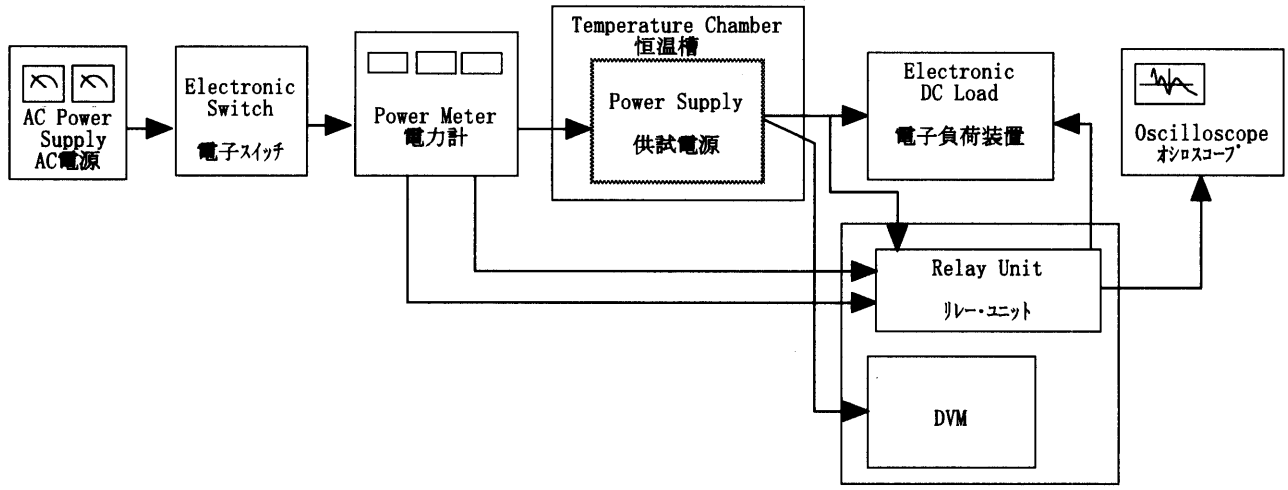

Figure A

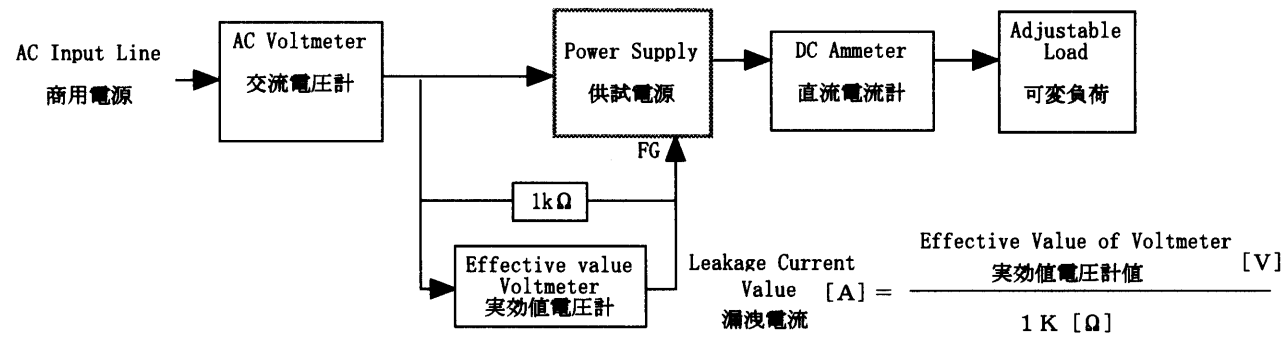

Figure B(DENTORI)

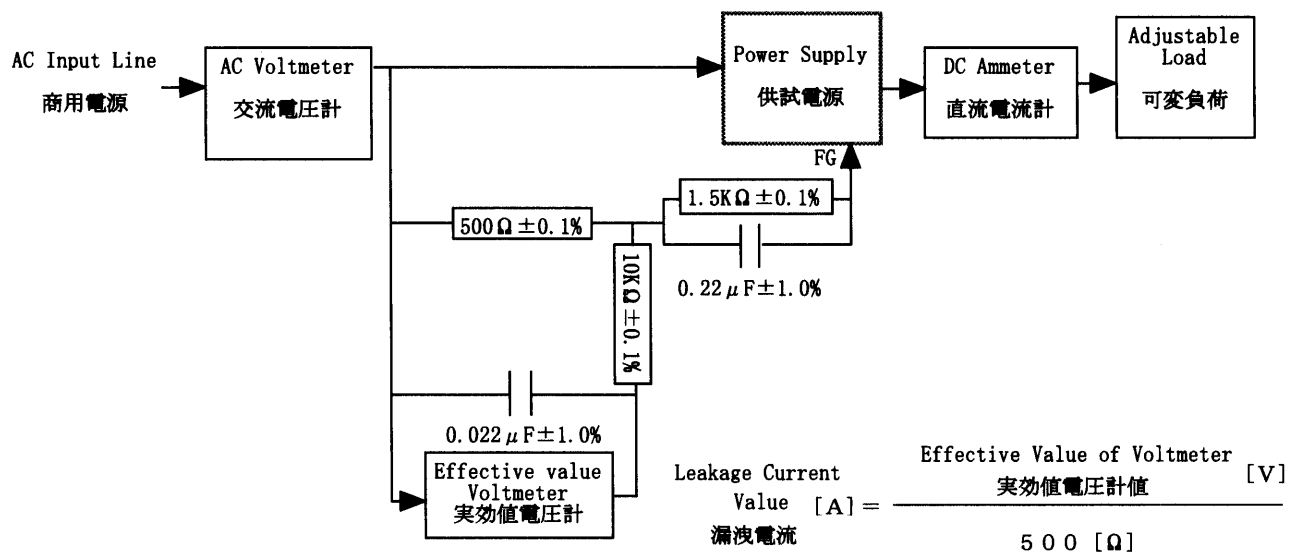

Figure B (UL, CSA, VDE)

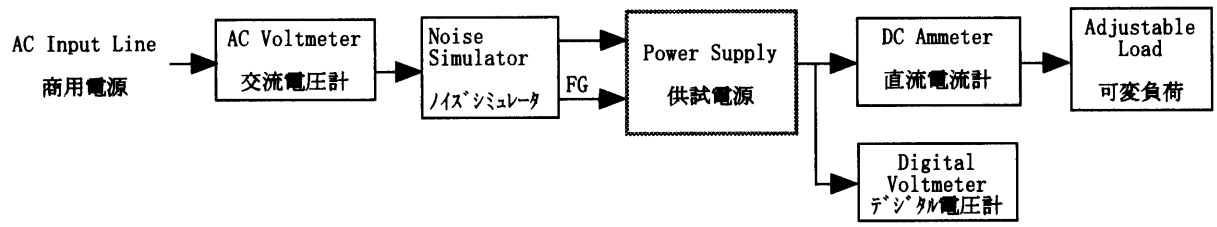

Figure C

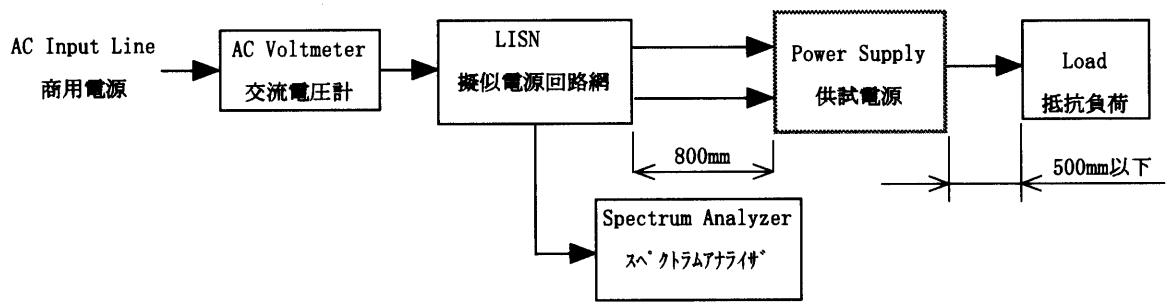

Figure D

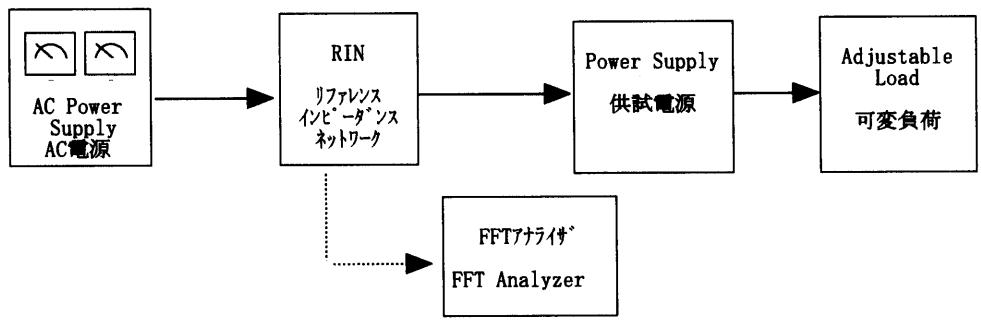

Figure E