



TEST DATA OF PAA600F-15

(200V INPUT)

Regulated DC Power Supply

Date : Aug. 18. 1997

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コーセル株式会社
COSEL CO., LTD.

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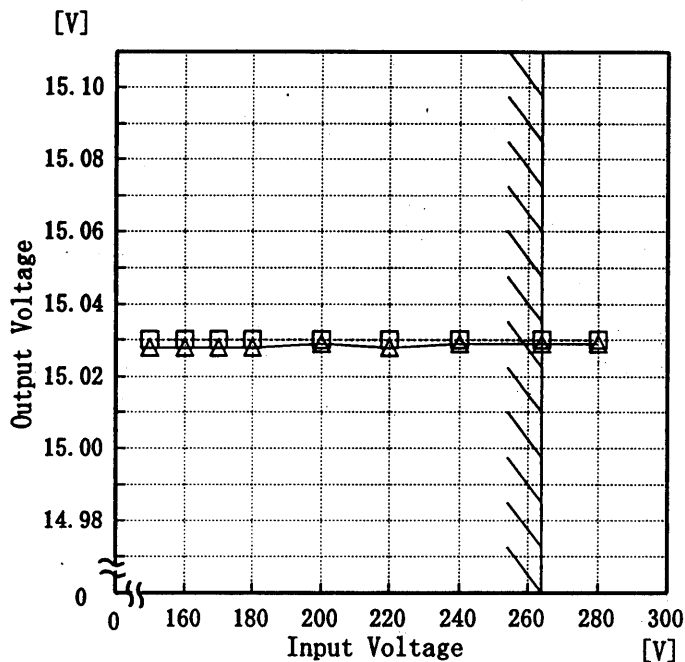
COSEL

Model	PAA600F-15
Item	Line Regulation 静的入力変動
Object	+15V43A

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

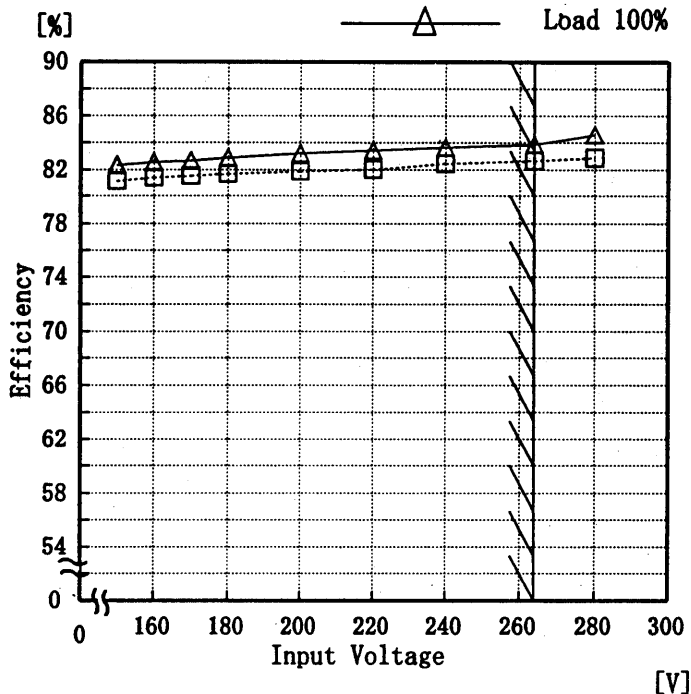
Input Voltage [V]	Load 50%	Load 100%
	Output Volt. [V]	Output Volt. [V]
150	15.030	15.028
160	15.030	15.028
170	15.030	15.028
180	15.030	15.028
200	15.030	15.029
220	15.030	15.028
240	15.030	15.029
264	15.030	15.029
280	15.030	15.029

COSEL

Model	PAA600F-15
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

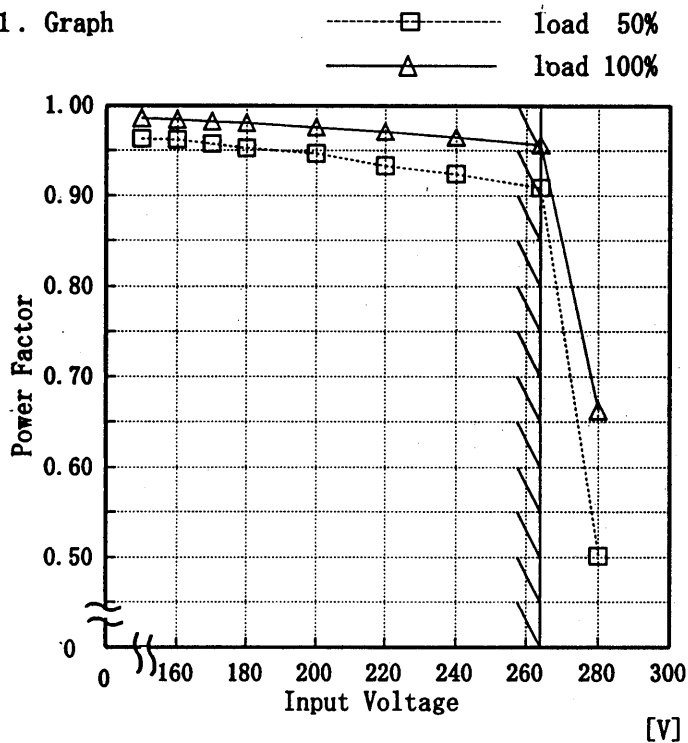
Input Voltage [V]	Load 50%	Load 100%
	Efficiency [%]	Efficiency [%]
150	81.17	82.35
160	81.42	82.57
170	81.55	82.67
180	81.70	82.88
200	81.89	83.20
220	82.04	83.42
240	82.45	83.64
264	82.67	83.85
280	82.89	84.61

COSEL

Model	PAA600F-15
Item	Power Factor 力率
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%
	Power Factor	Power Factor
150	0.96	0.99
160	0.96	0.98
170	0.96	0.98
180	0.95	0.98
200	0.95	0.98
220	0.93	0.97
240	0.92	0.96
264	0.91	0.96
280	0.50	0.66



Model		PAA600F-15		Temperature		25°C																																	
Item		Hold-Up Time 出力保持時間		Testing Circuitry		Figure A																																	
Object		+15V43A																																					
1. Graph				2. Values																																			
<p>-----□----- Load 50%</p> <p>-----△----- Load 100%</p> <p>Hold-Up Time [mS]</p> <p>Input Voltage [V]</p>				<table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th>Load 50%</th> <th>Load 100%</th> </tr> <tr> <th>Hold-Up Time [mS]</th> <th>Hold-Up Time [mS]</th> </tr> </thead> <tbody> <tr><td>150</td><td>96</td><td>46</td></tr> <tr><td>160</td><td>96</td><td>46</td></tr> <tr><td>170</td><td>96</td><td>46</td></tr> <tr><td>180</td><td>96</td><td>46</td></tr> <tr><td>200</td><td>97</td><td>47</td></tr> <tr><td>220</td><td>97</td><td>47</td></tr> <tr><td>240</td><td>97</td><td>48</td></tr> <tr><td>264</td><td>98</td><td>48</td></tr> <tr><td>280</td><td>94</td><td>53</td></tr> </tbody> </table>				Input Voltage [V]	Load 50%	Load 100%	Hold-Up Time [mS]	Hold-Up Time [mS]	150	96	46	160	96	46	170	96	46	180	96	46	200	97	47	220	97	47	240	97	48	264	98	48	280	94	53
Input Voltage [V]	Load 50%	Load 100%																																					
	Hold-Up Time [mS]	Hold-Up Time [mS]																																					
150	96	46																																					
160	96	46																																					
170	96	46																																					
180	96	46																																					
200	97	47																																					
220	97	47																																					
240	97	48																																					
264	98	48																																					
280	94	53																																					
<p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</p> <p>Note: Slanted line shows the range of the rated input voltage.</p> <p>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。</p> <p>(注)斜線は定格入力電圧範囲を示す。</p>																																							



Model	PAA600F-15
Item	Instantaneous Interruption Compensation 瞬時停電保障
Object	+15V43A

1. Graph

—△— Input Volt. 170V

- - -□- - - Input Volt. 200V

—○— Input Volt. 264V

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。

Testing Circuitry Figure A 25°C

2. Values

Load Current [A]	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
	Time [mS]		
8.0	230	233	234
16.0	121	122	126
24.0	79	80	81
32.0	60	62	63
40.0	40	46	47
43.0	40	45	46
47.0	39	40	40

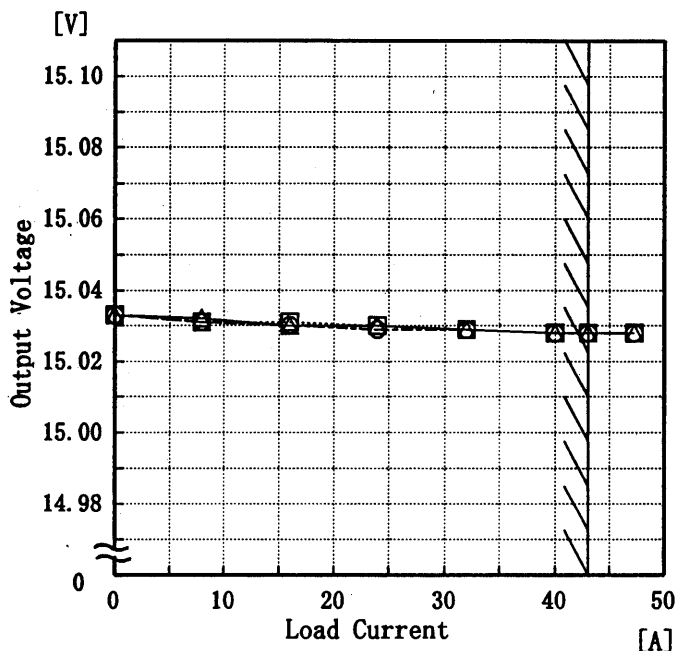
COSEL

Model	PAA600F-15
Item	Load Regulation 靜的負荷變動
Object	+15V43A

Temperature 25°C
Testing Circuitry Figure A

1. Graph

—△— Input Volt. 170V
 - -□- - Input Volt. 200V
 —○— Input Volt. 264V



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。

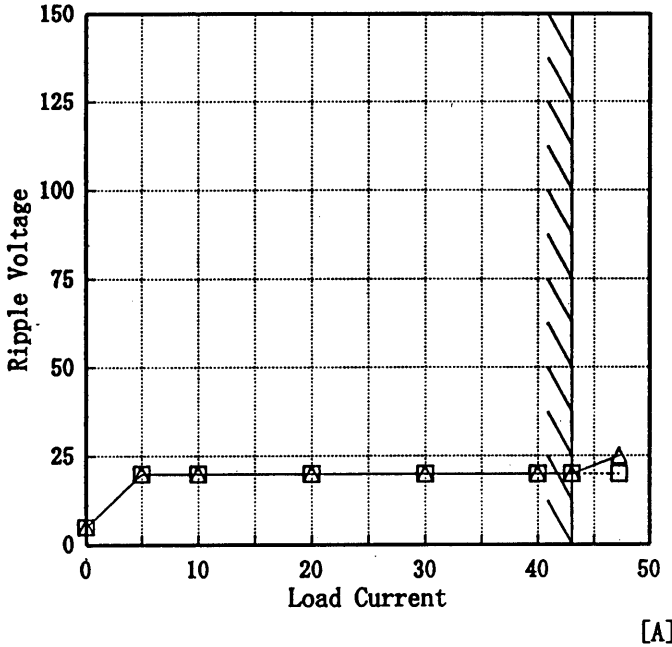
2. Values

Load Current [A]	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]
0.0	15.033	15.033	15.033
8.0	15.032	15.031	15.031
16.0	15.030	15.031	15.030
24.0	15.030	15.030	15.029
32.0	15.029	15.029	15.029
40.0	15.028	15.028	15.028
43.0	15.028	15.028	15.028
47.3	15.028	15.028	15.028
—	—	—	—
—	—	—	—

COSEL

Model	PAA600F-15	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	+15V43A		

1. Graph
 [mV] □ Input Volt. 170V
 △ Input Volt. 264V



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

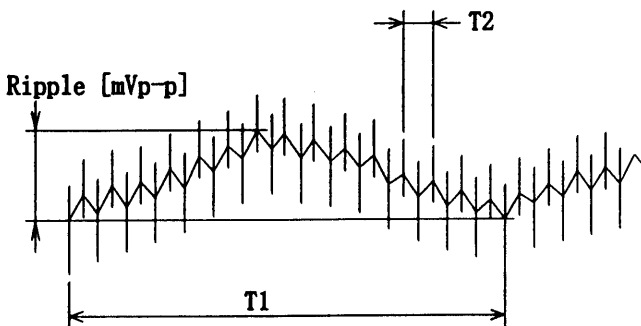


Fig. Complex Ripple Wave Form
 図 リップル波形詳細図

2. Values

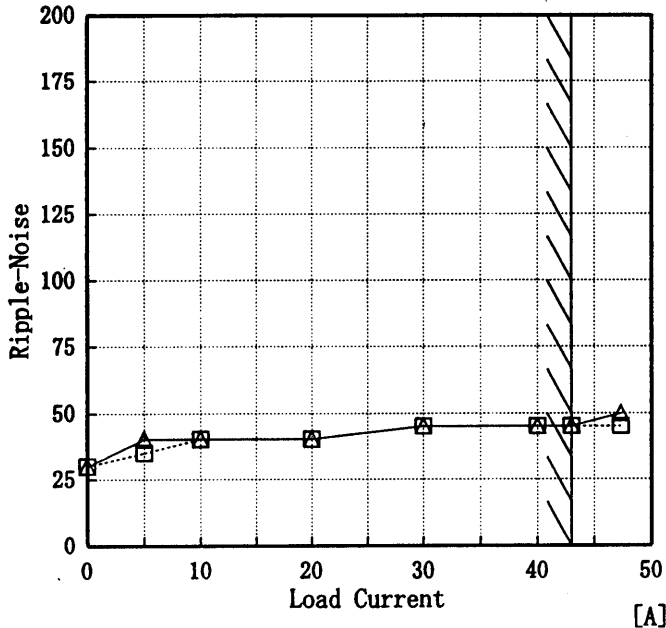
Load Current [A]	Input Volt. 170 [V]	Input Volt. 264 [V]
	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]
0.0	5	5
5.0	20	20
10.0	20	20
20.0	20	20
30.0	20	20
40.0	20	20
43.0	20	20
47.3	20	25



Model	PAA600F-15
Item	Ripple-Noise リップルノイズ
Object	+15V 43A

Temperature	25°C
Testing Circuitry	Figure A

1. Graph
 [mV] □----- Input Volt. 170V
 △----- Input Volt. 264V



2. Values

Load current [A]	Input Volt. 170 [V]	Input Volt. 264 [V]
	Ripple-Noise [mV]	Ripple-Noise [mV]
0.0	30	30
5.0	35	40
10.0	40	40
20.0	40	40
30.0	45	45
40.0	45	45
43.0	45	45
47.3	45	50

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

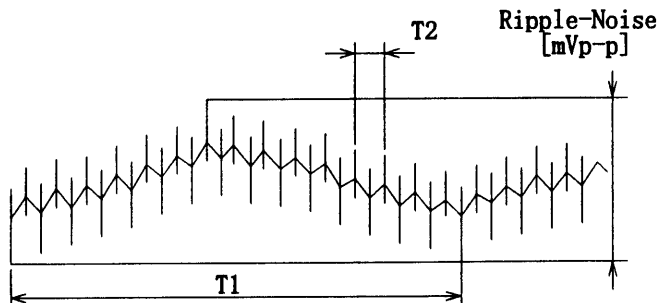
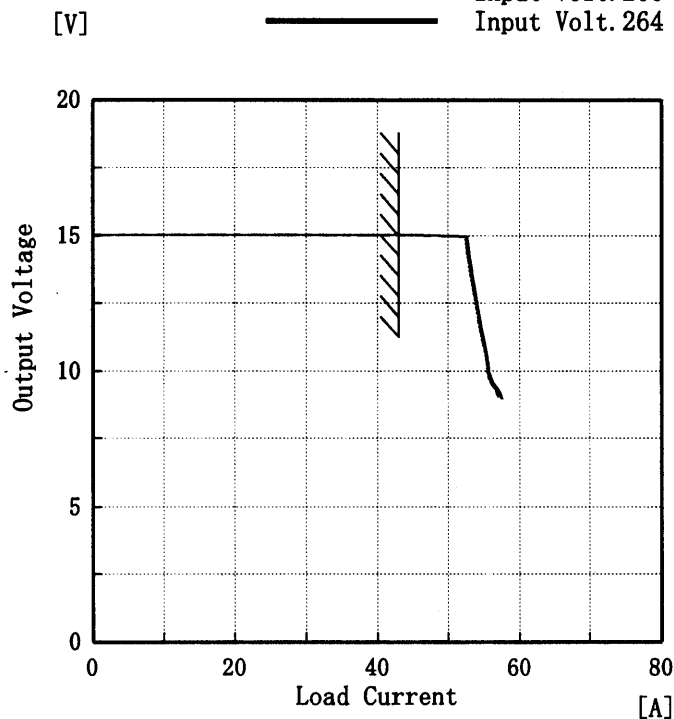


Fig. Complex Ripple Wave Form
 図 リップル波形詳細図



Model	PAA600F-15	Temperature	25°C
Item	Overcurrent Protection 過電流保護	Testing Circuitry	Figure A
Object	+15V43A		

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。

9V以下は間欠モードにはいる。

2. Values

Output Voltage [V]	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
	Load Current [A]	Load Current [A]	Load Current [A]
15.00	45.06	52.66	52.74
14.25	52.74	52.95	53.03
13.50	53.23	53.42	53.50
12.00	54.20	54.36	54.44
10.50	55.24	55.39	55.47
9.00	57.19	57.50	57.57

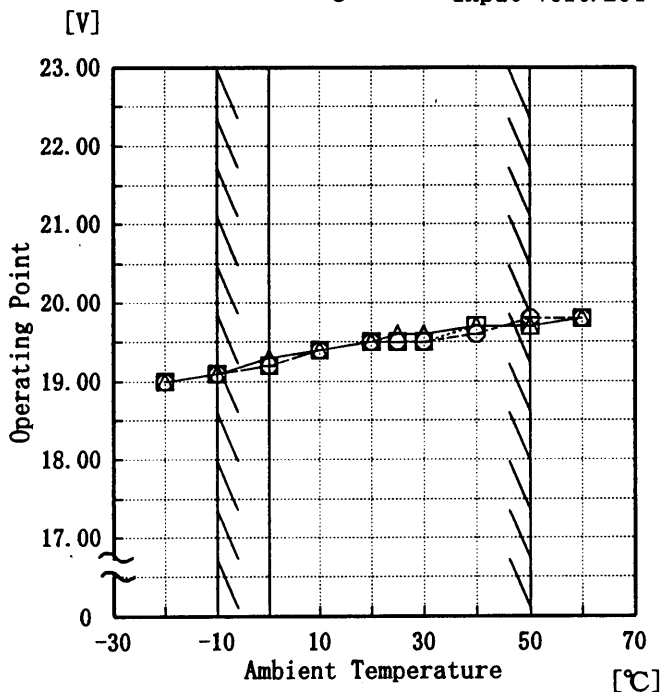


Model	PAA600F-15
Item	-Overvoltage Protection 過電圧保護
Object	+15V43A

Testing Circuitry Figure A

1. Graph

—△— Input Volt. 170 V
 - - -□- - - Input Volt. 200 V
 —○— Input Volt. 264 V



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

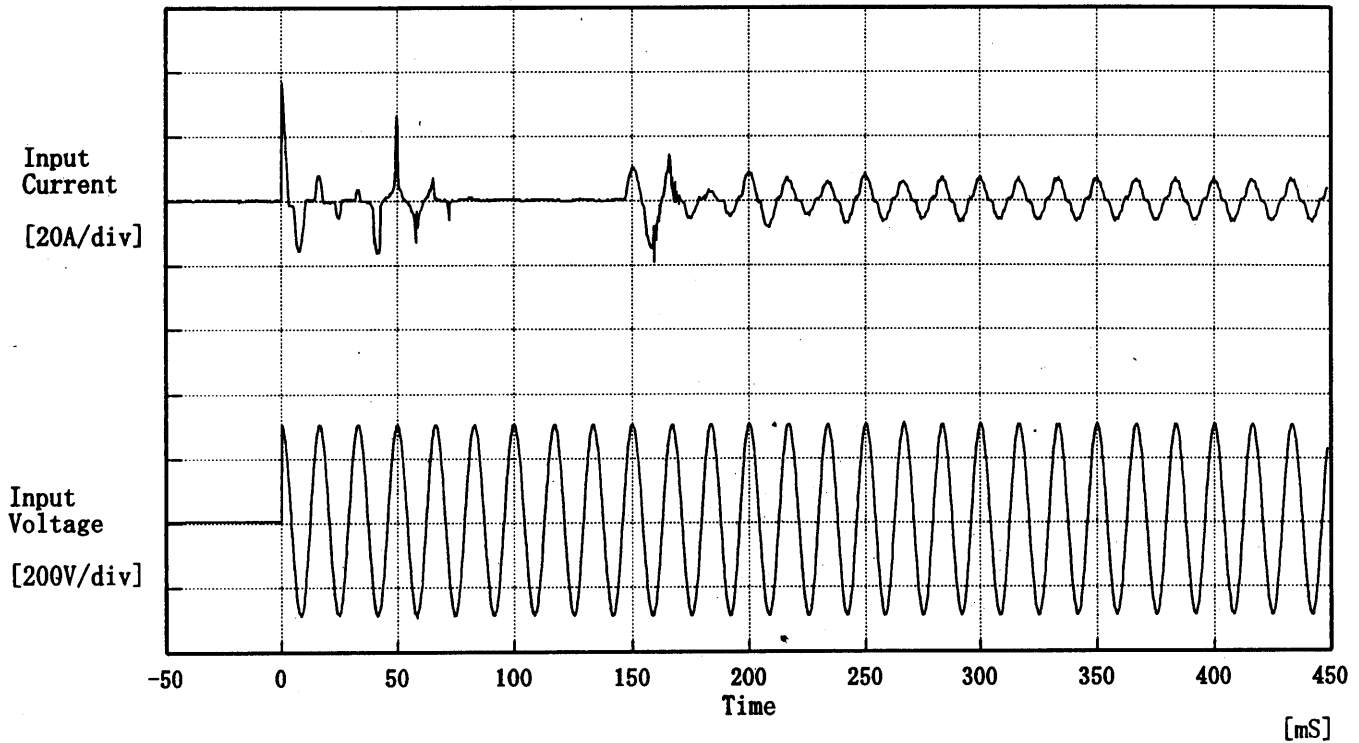
(注) 斜線は定格周囲温度範囲を示す。

2. Values

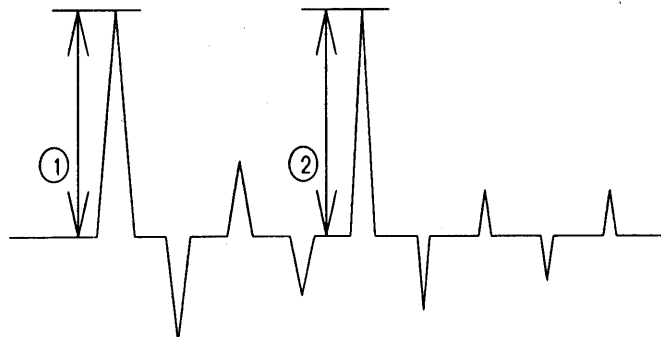
Ambient Temp. [°C]	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
	Operating Point [V]		
-20	19.00	19.00	19.00
-10	19.10	19.10	19.10
0	19.30	19.20	19.20
10	19.40	19.40	19.40
20	19.50	19.50	19.50
25	19.60	19.50	19.50
30	19.60	19.50	19.50
40	19.70	19.70	19.60
50	19.70	19.70	19.80
60	19.80	19.80	19.80

COSEL

Model	PAA600F-15	Temperature	25°C
Item	Inrush Current 突入電流	Testing Circuitry	Figure A
Object	_____		



Input Voltage 200 V
 Frequency 60 Hz
 Load 100 %
 Inrush Current
 ① 36.60 [A]
 ② 25.20 [A]

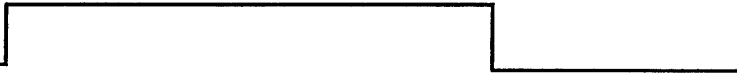




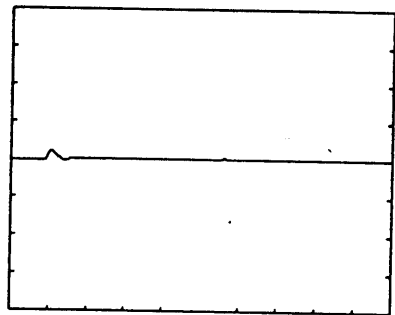
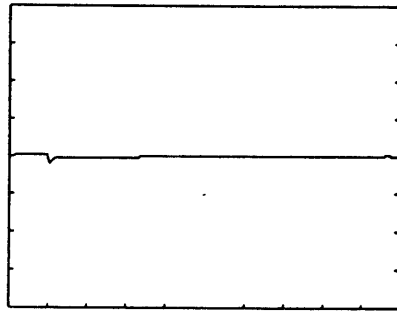
Model		PAA600F-15	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Responce 動的負荷変動	
Object		+15V 43A	

Input Volt. 200 V
Cycle 200 mS

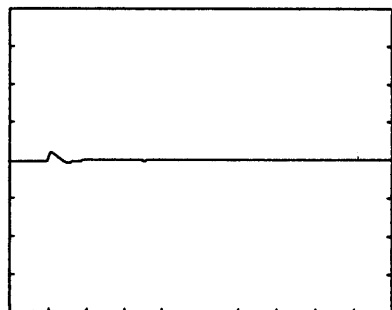
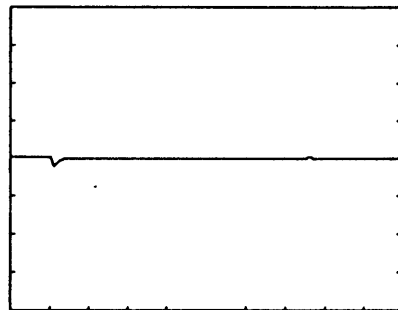
Load Current



Load 0% ↔
Load 100 %



Load 0% ↔
Load 50 %



100 mV/div

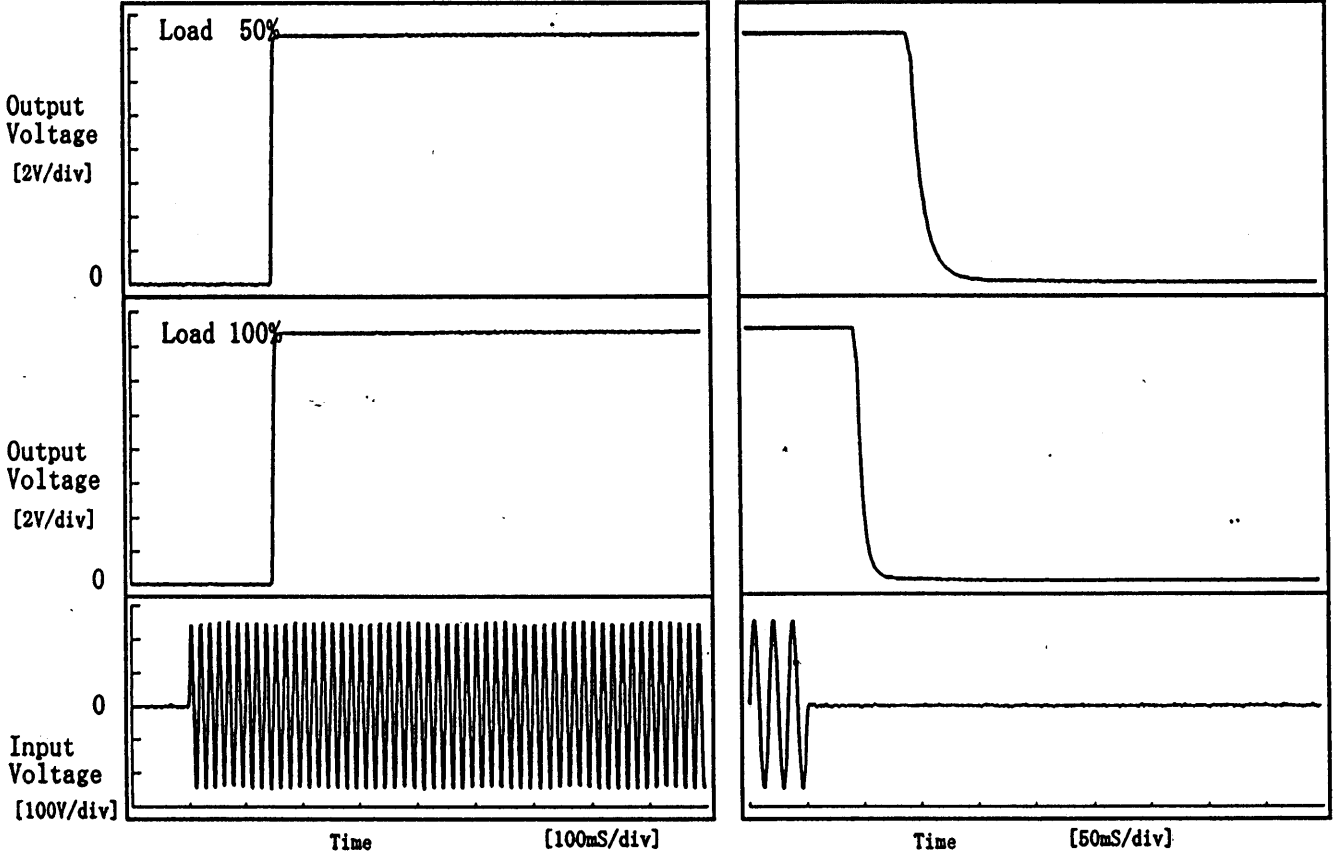
10 mS/div

COSEL

Model	PAA600F-15	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+15V43A		

1. Graph

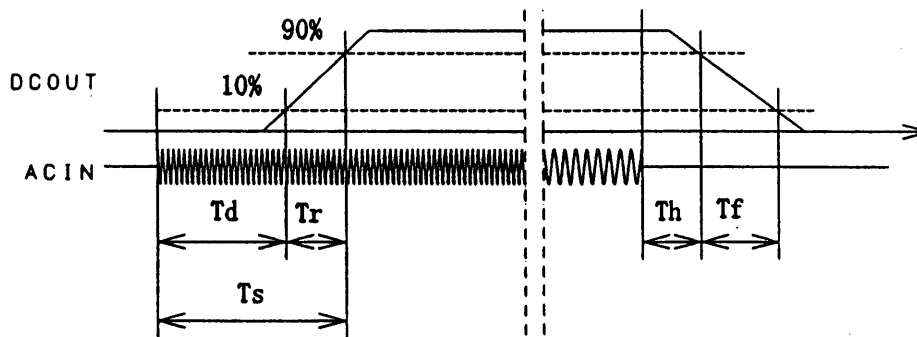
Input Volt. 170 V



2. Values

[mS]

Load	Time	T _d	T _r	T _s	T _h	T _f
50 %		148.0	4.0	152.0	95.5	23.5
100 %		148.5	5.5	154.0	45.8	12.8



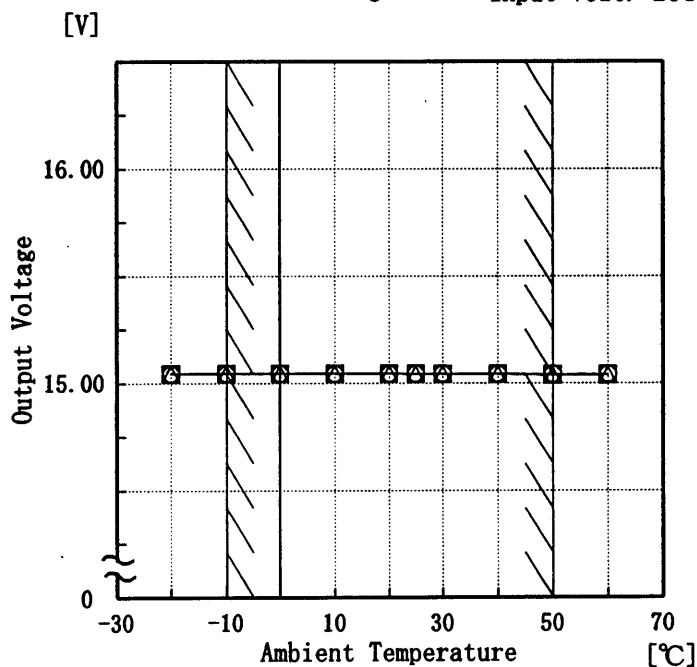


Model	PAA600F-15
Item	- Ambient Temperature Drift 周囲温度変動
Object	+15V43A

Testing Circuitry Figure A

1. Graph

—△— Input Volt. 170V
 - - -□- - - Input Volt. 200V
 —○— Input Volt. 264V



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。

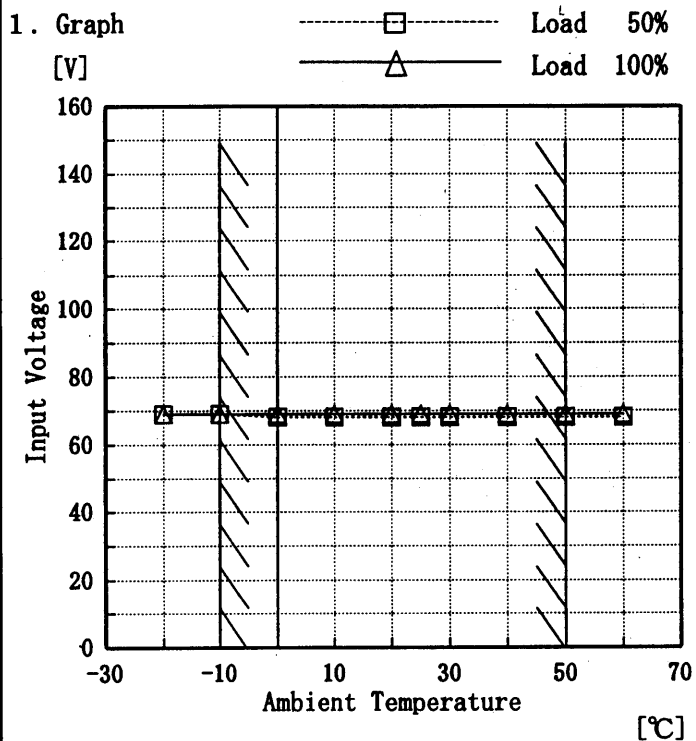
2. Values

Temperature [°C]	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]
-20	15.047	15.047	15.047
-10	15.047	15.047	15.047
0	15.047	15.047	15.047
10	15.047	15.047	15.047
20	15.047	15.047	15.047
25	15.045	15.047	15.047
30	15.045	15.045	15.046
40	15.045	15.045	15.046
50	15.040	15.043	15.045
60	15.040	15.043	15.045

COSEL

Model	PAA600F-15
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	+15V43A

Testing Circuitry Figure A



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。

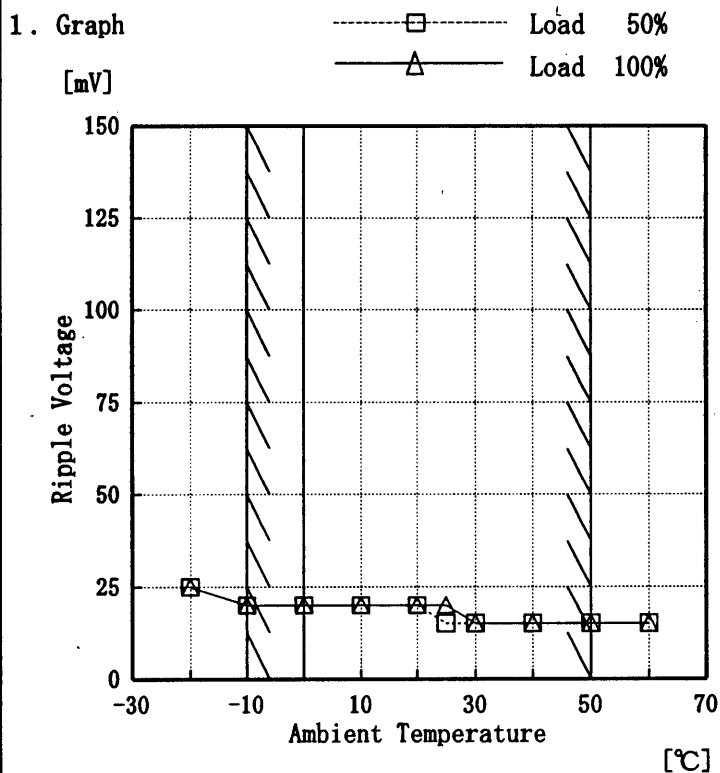
2. Values

Ambient Temp. [°C]	Load 50%	Load 100%
	Input Volt. [V]	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
—	—	—



Model	PAA600F-15
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)
Object	+15V 43A

Testing Circuitry Figure A



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



COSEL																								
Model	PAA600F-15																							
Item	Time Lapse Drift 経時ドリフト	Temperature 25 °C Testing Circuitry Figure A																						
Object	+15V43A																							
<p>1. Graph</p> <p>[V]</p> <p style="text-align: center;">Time [H]</p> <p>Input Volt. 200V Load 100%</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th>Time since start [H]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>15.015</td></tr> <tr><td>0.5</td><td>15.016</td></tr> <tr><td>1.0</td><td>15.017</td></tr> <tr><td>2.0</td><td>15.016</td></tr> <tr><td>3.0</td><td>15.016</td></tr> <tr><td>4.0</td><td>15.017</td></tr> <tr><td>5.0</td><td>15.016</td></tr> <tr><td>6.0</td><td>15.017</td></tr> <tr><td>7.0</td><td>15.017</td></tr> <tr><td>8.0</td><td>15.017</td></tr> </tbody> </table>	Time since start [H]	Output Voltage [V]	0.0	15.015	0.5	15.016	1.0	15.017	2.0	15.016	3.0	15.016	4.0	15.017	5.0	15.016	6.0	15.017	7.0	15.017	8.0	15.017
Time since start [H]	Output Voltage [V]																							
0.0	15.015																							
0.5	15.016																							
1.0	15.017																							
2.0	15.016																							
3.0	15.016																							
4.0	15.017																							
5.0	15.016																							
6.0	15.017																							
7.0	15.017																							
8.0	15.017																							



Model		PAA600F-15	Testing Circuitry Figure A
Item	Output Voltage Accuracy 定電圧精度		
Object	+15V43A		

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 : 170~264 V

Load Current : 0~43 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 170~264 V

負過電流 0~43 A

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

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

Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy (Ration) [%]
Maximum Voltage	-10	200	0	15.050	±18	±0.123
Minimum Voltage	50	170	43	15.013		

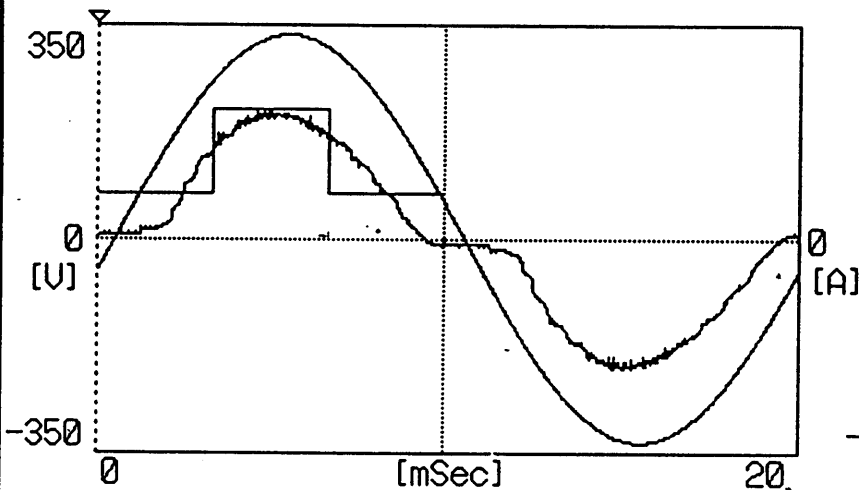
COSEL

Model	PAA600F-15	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

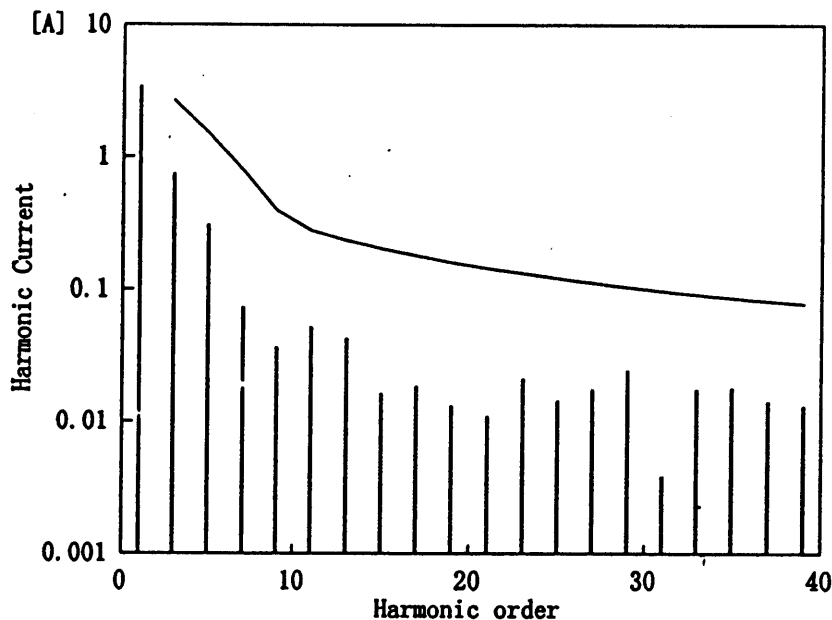


Conditions	Values
Input Voltage [V]	230
Input Current [A]	3.49
Active Power [W]	790
Apparent Power [VA]	809.3
Frequency [Hz]	50
Power Factor	0.976
Output Power [W]	645

9.5

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	3.43400
2	—	0.00066
3	2.68600	0.75384
4	—	0.00039
5	1.50100	0.30643
6	—	0.00048
7	0.79000	0.07379
8	—	0.00030
9	0.39500	0.03685
10	—	0.00042
11	0.27650	0.05188
12	—	0.00048
13	0.23396	0.04299
14	—	0.00042
15	0.20277	0.01654
16	—	0.00038
17	0.17891	0.01855
18	—	0.00043
19	0.16008	0.01344
20	—	0.00033
21	0.14483	0.01111
22	—	0.00039
23	0.13224	0.02133
24	—	0.00033
25	0.12166	0.01457
26	—	0.00031
27	0.11265	0.01768
28	—	0.00042
29	0.10488	0.02484
30	—	0.00043
31	0.09811	0.00386
32	—	0.00035
33	0.09217	0.01765
34	—	0.00050
35	0.08690	0.01814
36	—	0.00034
37	0.08220	0.01434
38	—	0.00038
39	0.07799	0.01333
40	—	0.00041

-9.5



— 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

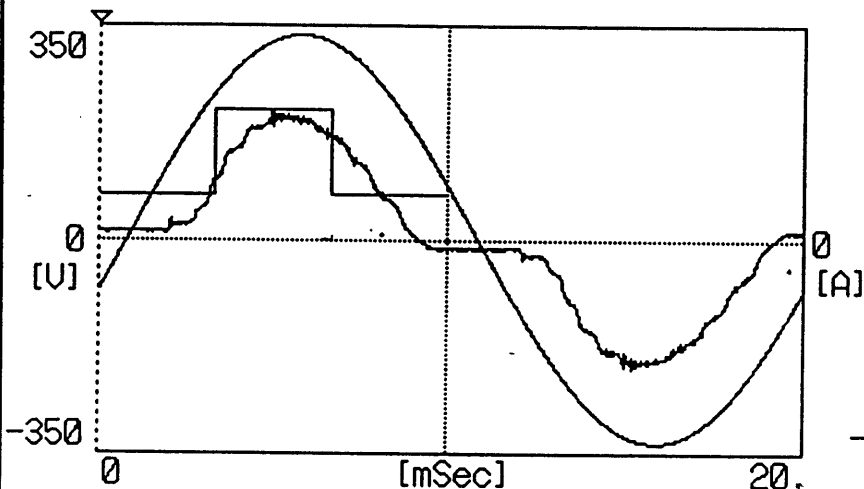
COSEL

Model	PAA600F-15	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

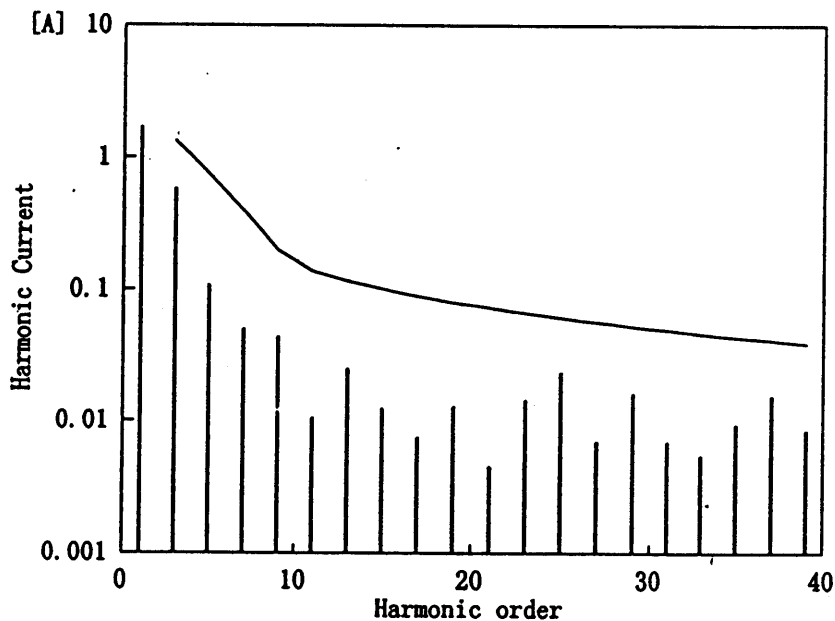


Conditions	Values
Input Voltage [V]	230
Input Current [A]	1.8
Active Power [W]	393.1
Apparent Power [VA]	417.6
Frequency [Hz]	50
Power Factor	0.941
Output Power [W]	322.5

5.4

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	1.71300
2	—	0.00043
3	1.33654	0.59192
4	—	0.00012
5	0.74689	0.10948
6	—	0.00009
7	0.39310	0.05017
8	—	0.00010
9	0.19655	0.04372
10	—	0.00010
11	0.13759	0.01064
12	—	0.00006
13	0.11642	0.02512
14	—	0.00005
15	0.10090	0.01258
16	—	0.00008
17	0.08903	0.00754
18	—	0.00012
19	0.07965	0.01301
20	—	0.00010
21	0.07207	0.00459
22	—	0.00014
23	0.06580	0.01459
24	—	0.00013
25	0.06054	0.02363
26	—	0.00018
27	0.05605	0.00707
28	—	0.00019
29	0.05219	0.01623
30	—	0.00033
31	0.04882	0.00700
32	—	0.00030
33	0.04586	0.00551
34	—	0.00019
35	0.04324	0.00941
36	—	0.00025
37	0.04090	0.01552
38	—	0.00039
39	0.03881	0.00851
40	—	0.00037

-5.4



— 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-15																																	
Item		Condensation 結露特性																																	
Object		+15V43A																																	
		Testing Circuitry Figure A																																	
<p>1. Condensation test</p> <p>Testing procedure is as follows.</p> <p>① Keeping and cooling the unit in a tank at -10°C for an hour with the input off.</p> <p>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.</p> <p>③ Testing electrical characteristics of the unit to confirm there be no fault.</p> <p>④ Repeating ①, ② and ③ three times.</p> <p>1. 結露特性試験</p> <p>入力を切った状態で、恒温槽で-10°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°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。</p>																																			
<p>2. Values</p> <table border="1"> <thead> <tr> <th></th> <th>Times</th> <th>Output Voltage [V]</th> <th>Ripple Voltage [mV]</th> <th>Ripple Noise [mV]</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Load 50%</td> <td>1</td> <td>15.010</td> <td>25</td> <td>50</td> </tr> <tr> <td>2</td> <td>15.010</td> <td>25</td> <td>50</td> </tr> <tr> <td>3</td> <td>15.010</td> <td>25</td> <td>50</td> </tr> <tr> <td rowspan="3">Load 100%</td> <td>1</td> <td>15.010</td> <td>25</td> <td>60</td> </tr> <tr> <td>2</td> <td>15.010</td> <td>25</td> <td>60</td> </tr> <tr> <td>3</td> <td>15.010</td> <td>25</td> <td>60</td> </tr> </tbody> </table> <p style="text-align: right;">Input Volt. 200 V</p>						Times	Output Voltage [V]	Ripple Voltage [mV]	Ripple Noise [mV]	Load 50%	1	15.010	25	50	2	15.010	25	50	3	15.010	25	50	Load 100%	1	15.010	25	60	2	15.010	25	60	3	15.010	25	60
	Times	Output Voltage [V]	Ripple Voltage [mV]	Ripple Noise [mV]																															
Load 50%	1	15.010	25	50																															
	2	15.010	25	50																															
	3	15.010	25	50																															
Load 100%	1	15.010	25	60																															
	2	15.010	25	60																															
	3	15.010	25	60																															

COSEL

Model		PAA600F-15	Testing Circuitry Figure A
Item		Leakage Current 漏洩電流	
Object		_____	

1. Results

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 200 [V]	Input Volt. 264 [V]
(A) DENTORI	—	—	—
(B) UL	—	—	—
(C) CSA	—	—	—

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 220 [V]	Input Volt. 264 [V]
(D) VDE	0.40	0.40	0.44

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 %

COSEL

Model		PAA600F-15	Testing Circuitry Figure C
Item	Line Noise Tolerance 入力雑音耐量		
Object	+15V43A		

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	19.50	no regulation
	NORMAL	19.50	no regulation
1000	COMMON	19.50	no regulation
	NORMAL	19.50	no regulation

Conditions

Input Voltage :200 V
 Pulse Voltage :2000 V
 Pulse Cycle :10 mS
 Pulse Input Duration:1 min. or more
 Load :100 %

COSEL

Model	PAA600F-15	Testing Circuitry Figure D
Item	Conducted Emission 雑音端子電圧	
Object		

1. Graph

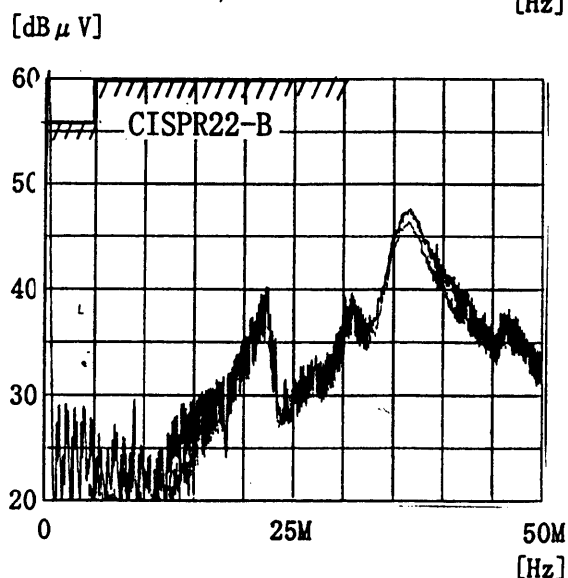
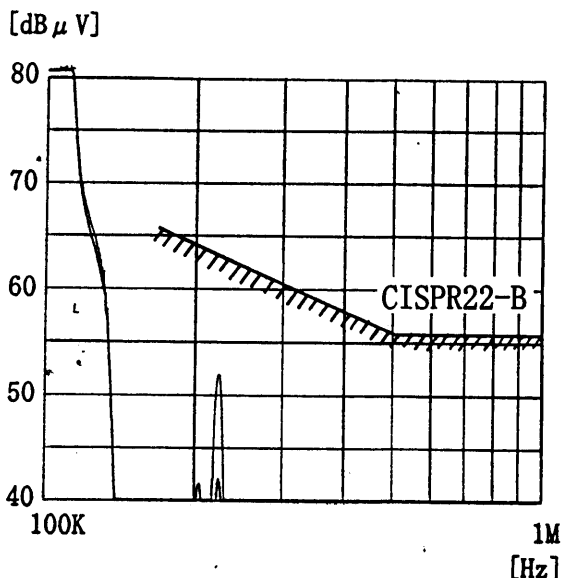
Remarks

Input Volt. 230 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/ μ V]
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



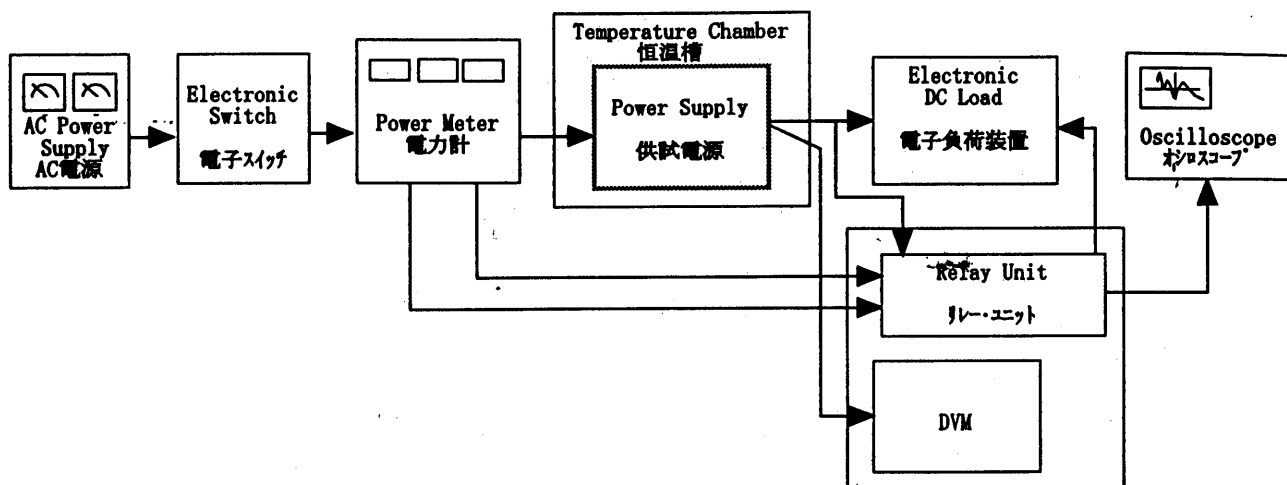


Figure A

Data Acquisition/Control Unit
データ集録システム

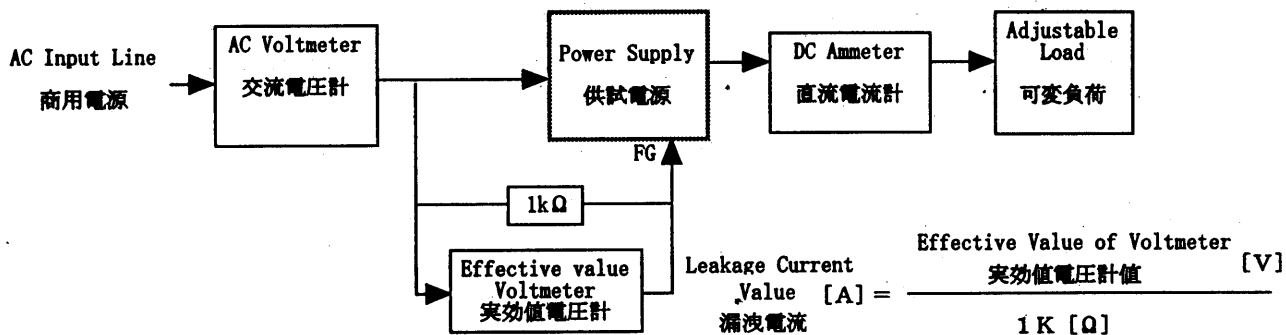


Figure B (DENTORI)

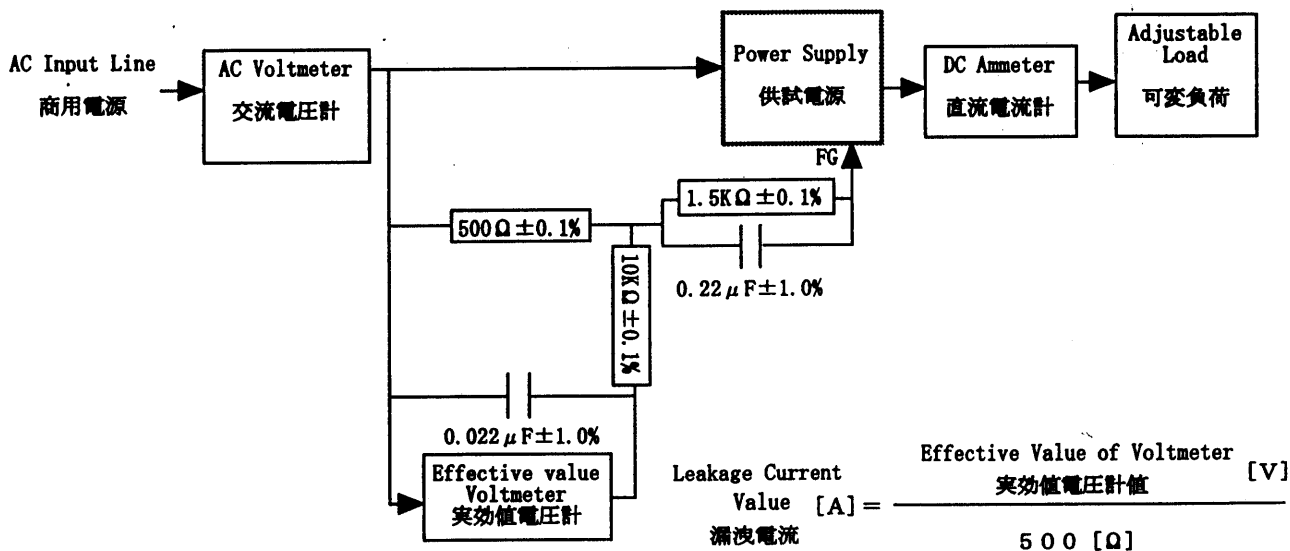


Figure B (UL, CSA, VDE)

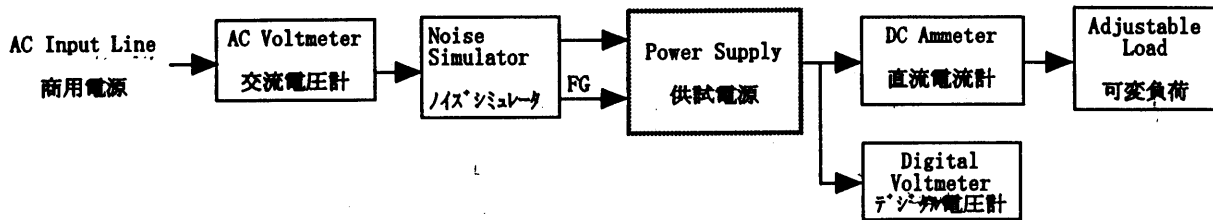


Figure C

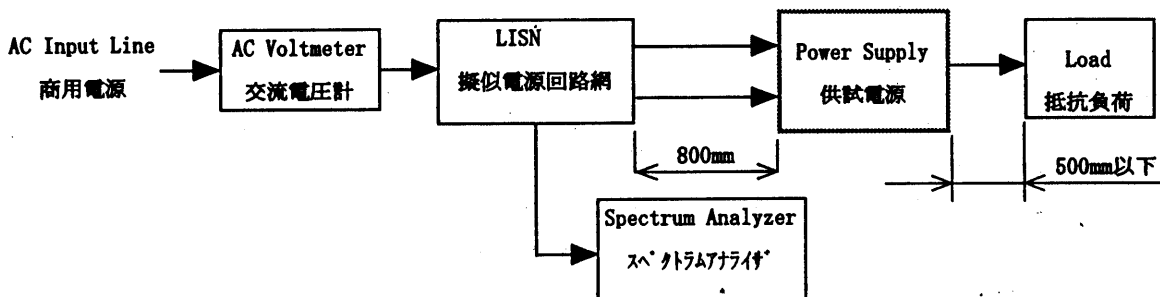


Figure D

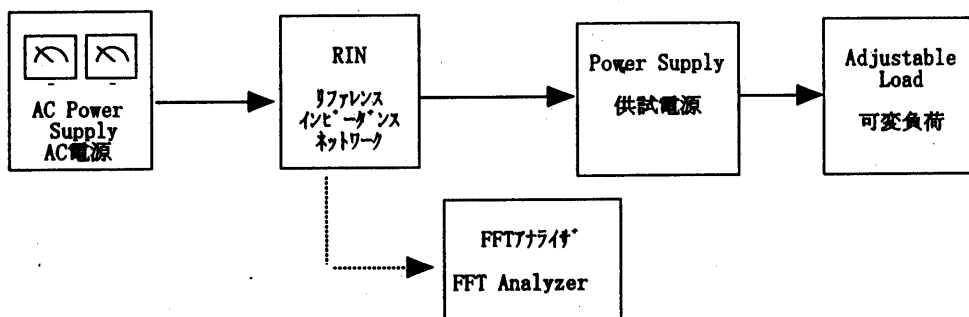


Figure E