

Test Data

PCSA-300P-X2V

(AC90~264V)

DC POWER SUPPLY

Approved by : *O. Nakamura*

Prepared by : *A. Takeda*

INPUT : AC 90V ~ 264V

OUTPUT : V1: 3.3V 5A (Peak 20A)
V2: 5V 20A (Peak 30A)
V3: 12V 10A (Peak 15A)
V4: -5V 0.5A
V5: -12V 0.5A
V6: 5Vs 1A

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Model	PCSA-300P-X2V															
Item	Line Regulation															
V1: 3.3V 5A																
<p style="text-align: center;">at AC Input</p> <p style="text-align: center;">at AC Input</p> <table border="1"> <thead> <tr> <th>Input Voltage [V]</th> <th>Output Voltage [V]</th> <th>Fluctuation Value [%]</th> </tr> </thead> <tbody> <tr> <td>AC 90</td> <td>3.326</td> <td>0.79</td> </tr> <tr> <td>100</td> <td>3.325</td> <td>0.76</td> </tr> <tr> <td>240</td> <td>3.324</td> <td>0.73</td> </tr> <tr> <td>264</td> <td>3.324</td> <td>0.73</td> </tr> </tbody> </table>		Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]	AC 90	3.326	0.79	100	3.325	0.76	240	3.324	0.73	264	3.324	0.73
Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]														
AC 90	3.326	0.79														
100	3.325	0.76														
240	3.324	0.73														
264	3.324	0.73														
V2: 5V 20A																
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Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]														
AC 90	4.958	-0.84														
100	4.958	-0.84														
240	4.957	-0.86														
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Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]														
AC 90	11.968	-0.27														
100	11.967	-0.27														
240	11.962	-0.32														
264	11.961	-0.33														
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Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]														
AC 90	-5.149	2.98														
100	-5.149	2.98														
240	-5.150	3.00														
264	-5.150	3.00														

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Model	PCSA-300P-X2V			
Item	Input Current (by Load Power)			
at AC Input				
at AC Input				
Load Power [W]	Input Current [A rms]			
	Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
10	0.32	0.30	0.24	0.25
62.5	1.03	0.92	0.44	0.43
125	1.90	1.69	0.73	0.69
187.5	2.84	2.53	1.05	0.97
250	3.92	3.47	1.40	1.29

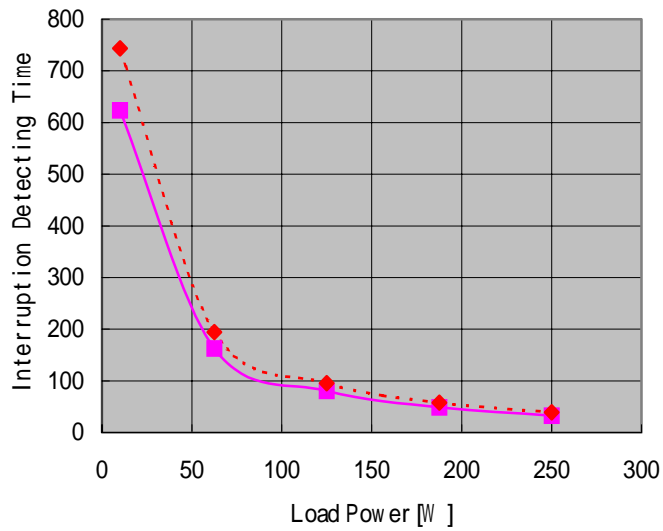
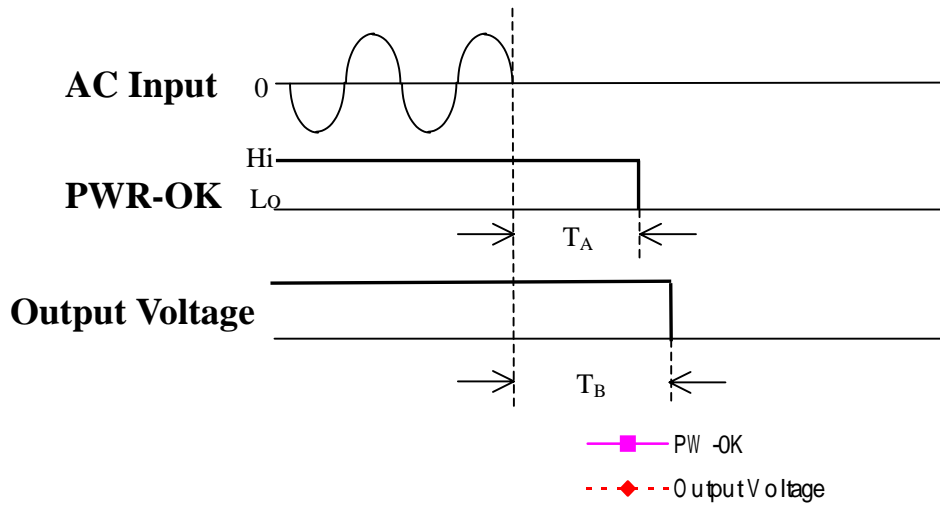
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<p>Legend: AC 90V (Blue solid line with square markers) AC 100V (Magenta dashed line with diamond markers) AC 240V (Red dashed line with triangle markers) AC 264V (Green dashed line with circle markers)</p>	<table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="4">Input Power [W]</th> </tr> <tr> <th>Input Voltage AC90V</th> <th>Input Voltage AC100V</th> <th>Input Voltage AC240V</th> <th>Input Voltage AC264V</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>27.43</td> <td>28.19</td> <td>27.83</td> <td>28.06</td> </tr> <tr> <td>62.5</td> <td>92.34</td> <td>91.89</td> <td>89.09</td> <td>89.04</td> </tr> <tr> <td>125</td> <td>170.23</td> <td>168.92</td> <td>163.47</td> <td>162.85</td> </tr> <tr> <td>187.5</td> <td>254.48</td> <td>251.96</td> <td>241.73</td> <td>241.19</td> </tr> <tr> <td>250</td> <td>351.74</td> <td>346.32</td> <td>328.34</td> <td>327.16</td> </tr> </tbody> </table>				Load Power [W]	Input Power [W]				Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	10	27.43	28.19	27.83	28.06	62.5	92.34	91.89	89.09	89.04	125	170.23	168.92	163.47	162.85	187.5	254.48	251.96	241.73	241.19	250	351.74	346.32	328.34	327.16
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Model	PCSA-300P-X2V
Item	Instantaneous Interruption Compensation (by Load Power)

at AC Input (90V / 100V / 240V / 264V)



Load Power [W]	Interruption Detecting Time (ms)	
	PWR-OK T _A	DC Output T _B
10	623.70	743.60
62.5	162.40	194.50
125	80.04	95.24
187.5	48.46	57.56
250	32.66	38.72

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Load Power [W]	Load Current [A]																																																							
	3.3V	5V	12V	-5V	-12V	5Vs																																																		
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10	0	2	0	0	0	0																																																		
62.5	1.25	5	2.5	0.125	0.125	0.25																																																		
125	2.5	10	5	0.25	0.25	0.5																																																		
187.5	3.75	15	7.5	0.375	0.375	0.75																																																		
250	5	20	10	0.5	0.5	1																																																		
296.4	20	10	13.7	0.5	0.5	1.5																																																		

Model	PCSA-300P-X2V
Item	Ripple / Noise Voltage Test

Temperature	Input Voltage	V1 3.3V		V2 5V		V3 12V	
		Ripple (mV)	Noise (mV)	Ripple (mV)	Noise (mV)	Ripple (mV)	Noise (mV)
0	90 V	30	/ 45	40	/ 50	40	/ 50
	100 V	25	/ 40	30	/ 45	35	/ 50
	240 V	25	/ 45	30	/ 50	30	/ 45
	264 V	20	/ 40	30	/ 50	30	/ 40
25	90 V	20	/ 40	20	/ 40	25	/ 40
	100 V	20	/ 40	20	/ 35	20	/ 35
	240 V	20	/ 40	20	/ 40	20	/ 40
	264 V	20	/ 40	25	/ 40	20	/ 35
60	90 V	20	/ 30	20	/ 30	20	/ 30
	100 V	20	/ 30	20	/ 30	15	/ 30
	240 V	20	/ 40	20	/ 30	15	/ 30
	264 V	20	/ 30	20	/ 30	15	/ 30
Specification		50	/ 100	50	/ 100	120	/ 170
Judgement		Good		Good		Good	

Temperature	Input Voltage	V4 -5V		V5 -12V		V6 5VS	
		Ripple (mV)	Noise (mV)	Ripple (mV)	Noise (mV)	Ripple (mV)	Noise (mV)
-5	90 V	25	/ 45	35	/ 50	30	/ 50
	100 V	20	/ 45	30	/ 45	35	/ 50
	240 V	30	/ 45	30	/ 45	30	/ 50
	264 V	25	/ 40	25	/ 40	35	/ 45
25	90 V	20	/ 40	25	/ 40	20	/ 35
	100 V	20	/ 40	20	/ 40	20	/ 40
	240 V	25	/ 40	20	/ 50	20	/ 35
	264 V	25	/ 40	20	/ 40	25	/ 40
55	90 V	20	/ 45	20	/ 50	15	/ 40
	100 V	20	/ 40	25	/ 50	15	/ 20
	240 V	20	/ 40	20	/ 50	15	/ 30
	264 V	20	/ 40	20	/ 50	20	/ 40
Specification		50	/ 100	120	/ 170	50	/ 100
Judgement		Good		Good		Good	

Model	PCSA-300P-X2V
Item	Over-Current Protection

Temperature	Input Voltage	V1 3.3V	V2 5V	V3 12V
0	90 V	25.6 A	38.2 A	18.3 A
	100 V	25.4 A	38.5 A	18.4 A
	240 V	25.5 A	39.0 A	18.6 A
	264 V	25.6 A	39.0 A	18.7 A
25	90 V	24.4 A	37.8 A	18.1 A
	100 V	24.4 A	38.0 A	18.2 A
	240 V	24.5 A	38.5 A	18.6 A
	264 V	24.4 A	38.3 A	18.6 A
60	90 V	23.4 A	36.5 A	17.6 A
	100 V	23.4 A	36.7 A	17.8 A
	240 V	23.5 A	37.0 A	18.0 A
	264 V	23.6 A	37.0 A	18.1 A
Specification		21A or More	26A or More	13A or More
Judgement		Good	Good	Good

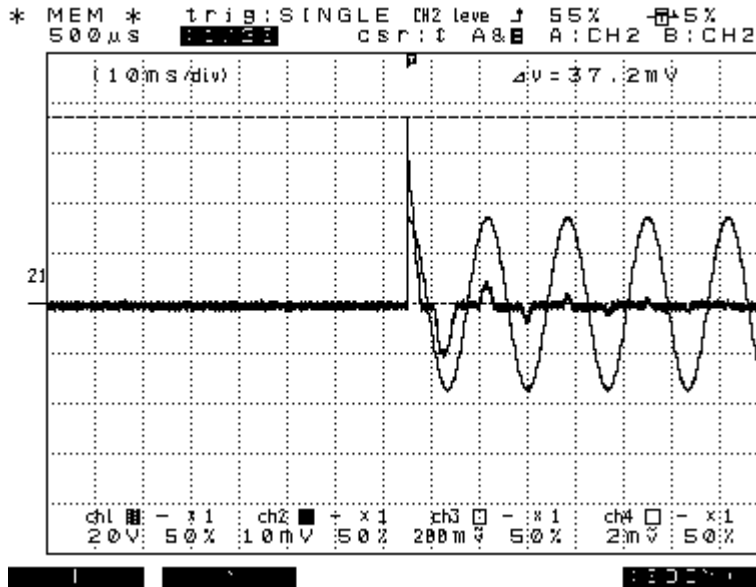
Temperature	Input Voltage	V4 -5V	V5 -12V	V6 5VS
-5	90 V	0.94 A	0.88 A	3.05 A
	100 V	0.94 A	0.88 A	3.08 A
	240 V	0.95 A	0.89 A	3.10 A
	264 V	0.96 A	0.91 A	3.05 A
25	90 V	0.86 A	0.81 A	3.04 A
	100 V	0.87 A	0.80 A	3.02 A
	240 V	0.87 A	0.81 A	3.10 A
	264 V	0.86 A	0.82 A	3.07 A
55	90 V	0.76 A	0.76 A	2.90 A
	100 V	0.75 A	0.75 A	2.93 A
	240 V	0.77 A	0.77 A	2.96 A
	264 V	0.77 A	0.77 A	2.98 A
Specification		0.53A or More	0.53A or More	1.3A or More
Judgement		Good	Good	Good

Model	PCSA-300P-X2V
Item	Over-Voltage Protection

Temperature	Input Voltage	V1:3.3V	V2:5V
0	AC100V	4.2V	6.5V
	AC240V	4.2V	6.5V
25	AC100V	4.2V	6.5V
	AC240V	4.1V	6.2V
60	AC100V	4.2V	6.5V
	AC240V	4.2V	6.6V
Specification		3.7 ~ 4.3V	5.6 ~ 7.0V
Judgement		Good	Good

Model	PCSA-300P-X2V
Item	Inrush Current

Inrush Current Wave

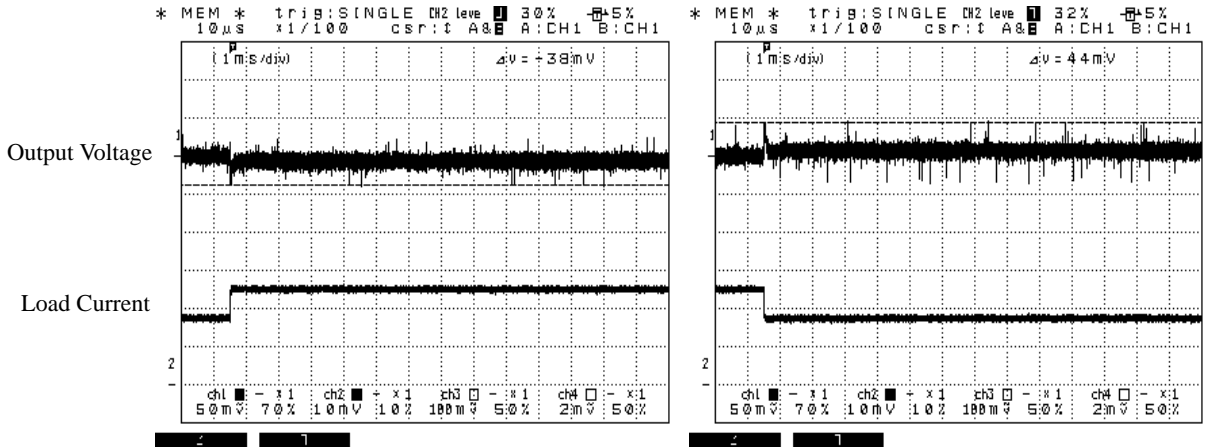


Wave No.1	
CH1	Measuring Point : Input Voltage Range 200V/DIV
CH2	Measuring Point : Input Current Range 10A/DIV
Time Line	4ms/DIV
Conditions	Input : AC240V 60Hz Load : Rated Load
Note :	
Inrush Current Value : 37.2A	

Model	PCSA-300P-X2V
Item	Dynamic Load Response

V1: +3.3V 5A

70% Load 100% Load

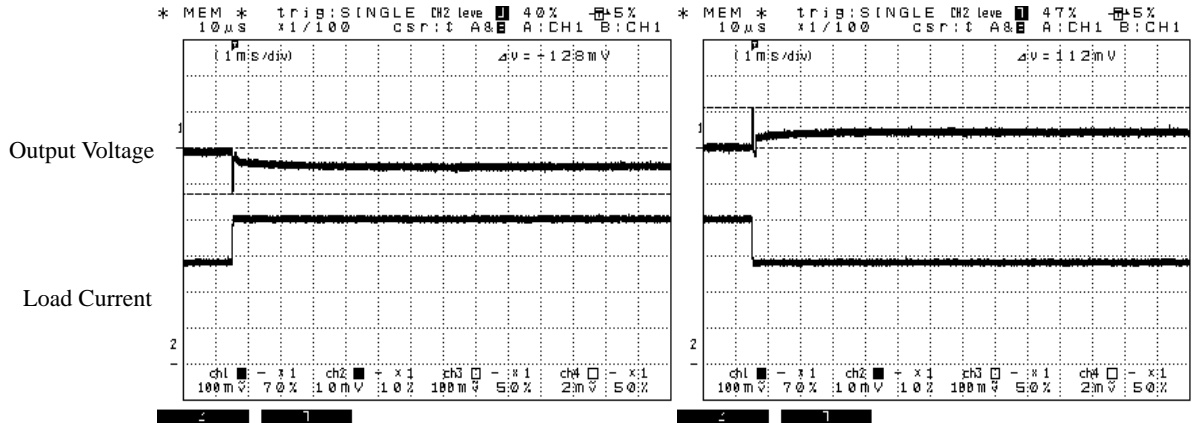


Sudden Fluctuation of Load	Fluctuation Value	ATX Specific Value	Judgement
70% Load 100% Load	- mV -38mV	± 165mV	Good
100% Load 70% Load	44mV - mV		Good

Model	PCSA-300P-X2V
Item	Dynamic Load Response

V2: +5V 20A

70% Load 100% Load

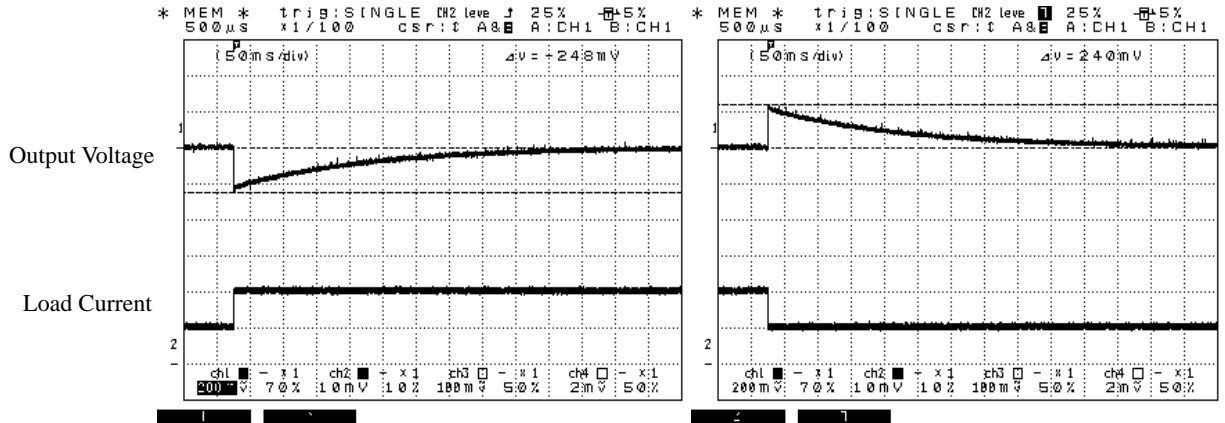


Sudden Fluctuation of Load	Fluctuation Value	ATX Specific Value	Judgement
70%Load 100% Load	- mV -128mV	± 250mV	Good
100% Load 70% Load	112mV - mV		

Model	PCSA-300P-X2V
Item	Dynamic Load Response

V3: +12V 4A

50% Load 100% Load



Sudden Fluctuation of Load	Fluctuation Value	ATX Specific Value	Judgement
50%Load 100% Load	- mV -248mV	± 600mV	Good
100% Load 50% Load	240mV - mV		Good

Model	PCSA-300P-X2V																																													
Item	12V Cross Regulation																																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">12V Load Current</th> <th colspan="5">12V Voltage Value [V]</th> </tr> <tr> <th>5V 5A</th> <th>5V 10A</th> <th>5V 15A</th> <th>5V 20A</th> <th>5V 30A</th> </tr> </thead> <tbody> <tr> <td>2.5A</td> <td>11.784</td> <td>11.954</td> <td>12.125</td> <td>-</td> <td>-</td> </tr> <tr> <td>5A</td> <td>11.642</td> <td>11.800</td> <td>11.983</td> <td>12.178</td> <td>12.388</td> </tr> <tr> <td>7.5A</td> <td>11.527</td> <td>11.700</td> <td>11.870</td> <td>12.070</td> <td>12.284</td> </tr> <tr> <td>10A</td> <td>-</td> <td>11.600</td> <td>11.772</td> <td>11.959</td> <td>12.196</td> </tr> <tr> <td>15A</td> <td>-</td> <td>-</td> <td>11.580</td> <td>11.802</td> <td>-</td> </tr> </tbody> </table>						12V Load Current	12V Voltage Value [V]					5V 5A	5V 10A	5V 15A	5V 20A	5V 30A	2.5A	11.784	11.954	12.125	-	-	5A	11.642	11.800	11.983	12.178	12.388	7.5A	11.527	11.700	11.870	12.070	12.284	10A	-	11.600	11.772	11.959	12.196	15A	-	-	11.580	11.802	-
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12V Load Current	Fluctuation Value [%]																																													
	5V 5A	5V 10A	5V 15A	5V 20A	5V 30A																																									
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5A	-2.98	-1.67	-0.14	1.48	3.23																																									
7.5A	-3.94	-2.50	-1.08	0.58	2.37																																									
10A	-	-3.33	-1.90	-0.34	1.63																																									
15A	-	-	-3.50	-1.65	-																																									

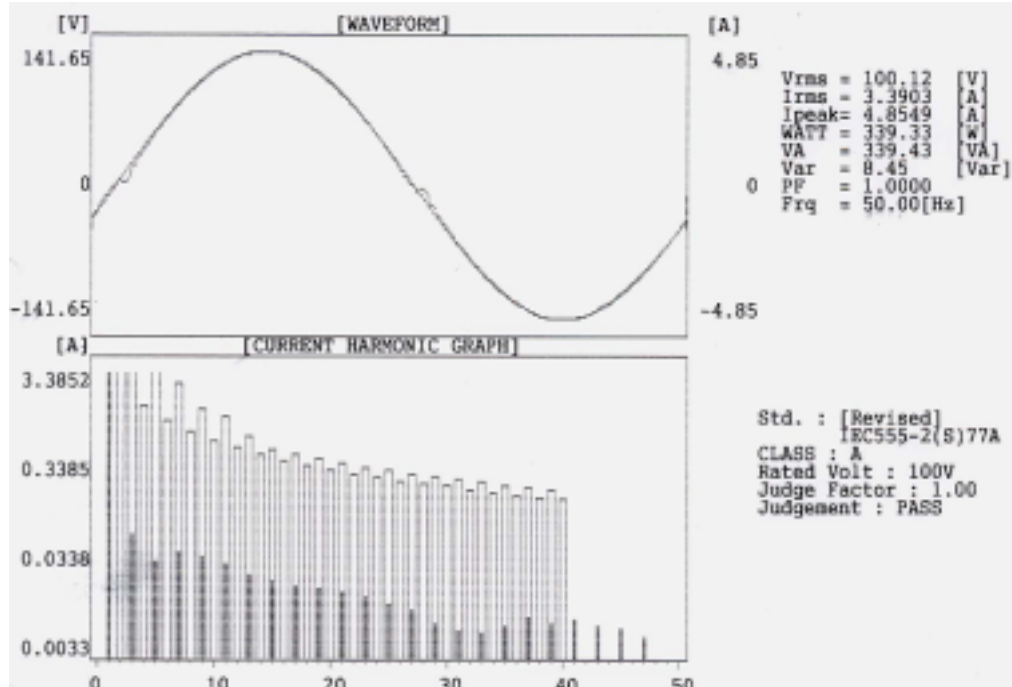
Model	PCSA-300P-X2V			
Item	Ambient Temperature Drift			
V1:3.3V 5A				
at AC Input				
Output Voltage [V]				
Temperature ()	Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	3.328	3.328	3.328	3.323
25	3.326	3.325	3.324	3.324
45	3.321	3.321	3.321	3.320
65	3.338	3.338	3.338	3.338
Fluctuation Value [%]				
Temperature ()	Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	0.85	0.85	0.85	0.70
25	0.79	0.76	0.73	0.73
45	0.64	0.64	0.64	0.61
65	1.15	1.15	1.15	1.15
60% of Rated Load				
V2:5V 20A				
at AC Input				
Output Voltage [V]				
Temperature ()	Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	4.978	4.975	4.975	4.973
25	4.958	4.958	4.957	4.957
45	4.941	4.940	4.940	4.939
65	4.990	4.990	4.990	4.990
Fluctuation Value [%]				
Temperature ()	Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	-0.44	-0.50	-0.50	-0.54
25	-0.84	-0.84	-0.86	-0.86
45	-1.18	-1.20	-1.20	-1.22
65	-0.20	-0.20	-0.20	-0.20
60% of Rated Load				

Model	PCSA-300P-X2V			
Item	Ambient Temperature Drift			
V3:12V 10A				
at AC Input				
Output Voltage [V]				
Temperature ()	Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	11.906	11.921	11.923	11.930
25	11.968	11.967	11.962	11.961
45	11.965	11.968	11.967	11.969
65	11.765	11.765	11.765	11.765
Fluctuation Value [%]				
Temperature ()	Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	-0.78	-0.66	-0.64	-0.58
25	-0.27	-0.27	-0.32	-0.33
45	-0.29	-0.27	-0.27	-0.26
65	-1.96	-1.96	-1.96	-1.96
60% of Rated Load				
V4:-5V 0.5A				
at AC Input				
Output Voltage [V]				
Temperature ()	Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	-5.128	-5.130	-5.133	-5.136
25	-5.149	-5.149	-5.150	-5.150
45	-5.158	-5.158	-5.160	-5.160
65	-5.147	-5.147	-5.147	-5.147
Fluctuation Value [%]				
Temperature ()	Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	2.56	2.60	2.66	2.72
25	2.98	2.98	3.00	3.00
45	3.16	3.16	3.20	3.20
65	2.94	2.94	2.94	2.94
60% of Rated Load				

Model	PCSA-300P-X2V			
Item	Ambient Temperature Drift			
V5: -12V 0.5A				
at AC Input				
Output Voltage [V]				
Temperature ()	Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	-12.030	-12.030	-12.030	-12.030
25	-12.030	-12.030	-12.030	-12.030
45	-12.036	-12.036	-12.036	-12.036
65	-12.018	-12.018	-12.018	-12.018
Fluctuation Value [%]				
Temperature ()	Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	0.25	0.25	0.25	0.25
25	0.25	0.25	0.25	0.25
45	0.30	0.30	0.30	0.30
65	0.15	0.15	0.15	0.15
60% of Rated Load				
V6: 5Vs 1A				
at AC Input				
Output Voltage [V]				
Temperature ()	Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	4.967	4.967	4.967	4.967
25	4.963	4.963	4.962	4.962
45	4.957	4.957	4.956	4.956
65	5.015	5.015	5.015	5.015
Fluctuation Value [%]				
Temperature ()	Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	-0.66	-0.66	-0.66	-0.66
25	-0.74	-0.74	-0.76	-0.76
45	-0.86	-0.86	-0.88	-0.88
65	0.30	0.30	0.30	0.30
60% of Rated Load				

Model	PCSA-300P-X2V
Item	Harmonic Current

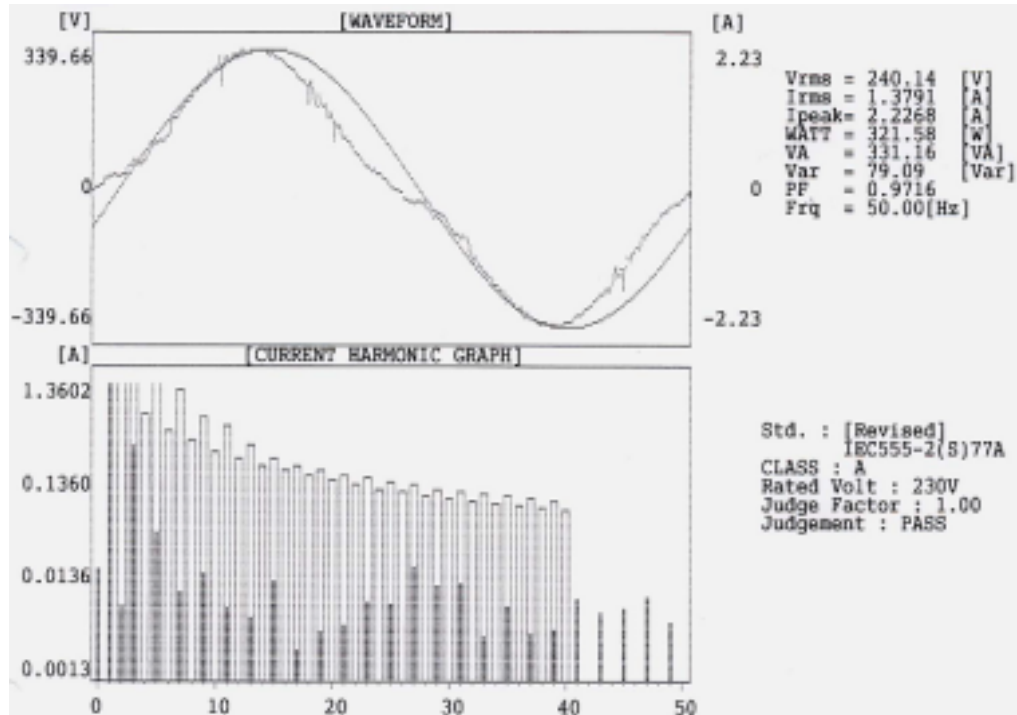
Measuring Instrument : MP701(Keisoku Giken)



[CURRENT HARMONIC DATA]							
No	(A)	No	(A)	No	(A)	No	(A)
00	0.0007	13	0.0178	26	0.0007	39	0.0052
01	3.3852	14	0.0022	27	0.0075	40	0.0000
02	0.0031	15	0.0151	28	0.0015	41	0.0059
03	0.0474	16	0.0015	29	0.0054	42	0.0000
04	0.0028	17	0.0137	30	0.0007	43	0.0050
05	0.0246	18	0.0000	31	0.0045	44	0.0000
06	0.0031	19	0.0127	32	0.0000	45	0.0046
07	0.0294	20	0.0015	33	0.0044	46	0.0000
08	0.0022	21	0.0115	34	0.0000	47	0.0038
09	0.0272	22	0.0000	35	0.0050	48	0.0000
10	0.0022	23	0.0101	36	0.0000	49	0.0025
11	0.0228	24	0.0000	37	0.0063		
12	0.0025	25	0.0087	38	0.0000		

Model	PCSA-300P-X2V
Item	Harmonic Current

Measuring Instrument : MP701(Keisoku Giken)



[CURRENT HARMONIC DATA]

No	(A)	No	(A)	No	(A)	No	(A)
00	0.0120	13	0.0037	26	0.0002	39	0.0029
01	1.3602	14	0.0009	27	0.0129	40	0.0007
02	0.0051	15	0.0090	28	0.0007	41	0.0059
03	0.2148	16	0.0004	29	0.0081	42	0.0002
04	0.0010	17	0.0018	30	0.0010	43	0.0044
05	0.0280	18	0.0000	31	0.0087	44	0.0008
06	0.0009	19	0.0028	32	0.0004	45	0.0049
07	0.0071	20	0.0007	33	0.0025	46	0.0005
08	0.0008	21	0.0033	34	0.0000	47	0.0063
09	0.0110	22	0.0010	35	0.0049	48	0.0004
10	0.0010	23	0.0056	36	0.0005	49	0.0035
11	0.0048	24	0.0007	37	0.0027		
12	0.0009	25	0.0054	38	0.0005		

Model	PCSA-300P-X2V
Item	Leakage Current Test

Temperature Room Temperature
 Input AC100V, 200V
 Load Rated Load , Minimum Load

Input Voltage (V)	at Rated Load (mA)	at Minimum Load (mA)
100V	0.22	0.22
200V	0.45	0.46

Measuring Instrument : YEW.TYPE3226 Applicable Products (Range : 1K)

Model	PCSA-300P-X2V
Item	Line Noise Tolerance

Temperature	Room Temperature
Input	AC100V,60Hz
Load	Rated Load
Noise Impressed Voltage	± 2000V
Repeat Cycle	10 ~ 35ms
Pulse Width	100,1000ns

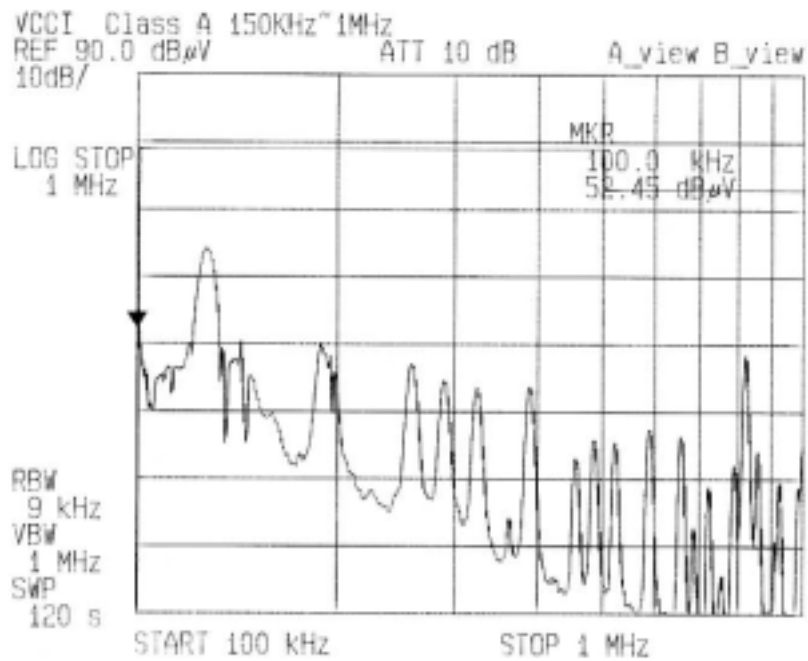
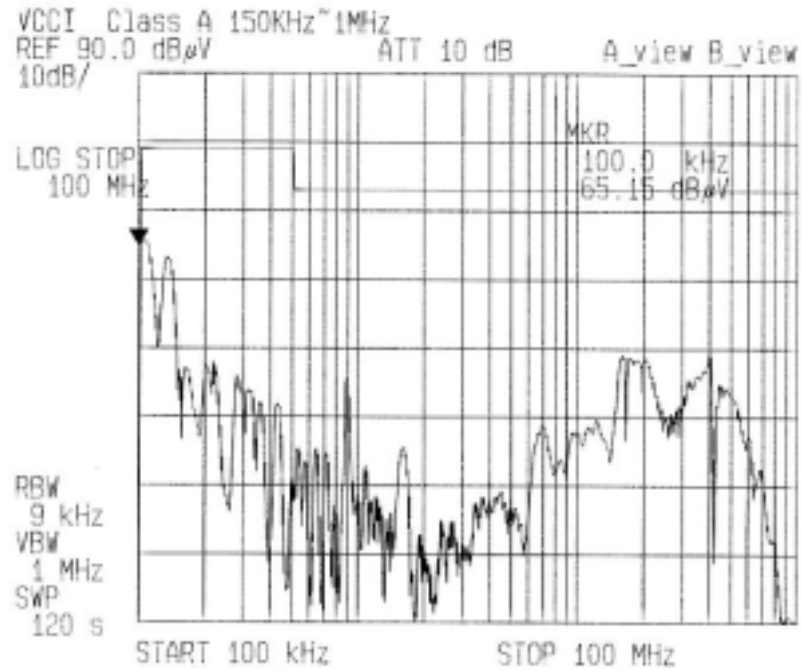
Normal	Pulse Impressed Mode			
	100ns		1000ns	
	Polarity +	Polarity -	Polarity +	Polarity -
Common R Phase	Pulse Impressed Mode			
	100ns		1000ns	
	Polarity +	Polarity -	Polarity +	Polarity -
Common S Phase	Pulse Impressed Mode			
	100ns		1000ns	
	Polarity +	Polarity -	Polarity +	Polarity -

- No Trouble
- Faulty Operation of Over-Voltage and so on
- × Power Supply Breakdown

Measuring Instrument : INS420 (Noise Laboratory Co.,Ltd.)

Model	PCSA-300P-X2V
Item	Conduction Emission

Temperature Room Temperature
 Input AC100V
 Load Rated Load
 Measuring Point L-FG
 Measuring Instrument R3261A (Advantest)



Model	PCSA-300P-X2V
Item	Conduction Emission

Temperature	Room Temperature
Input	AC240V
Load	Rated Load
Measuring Point	L-FG, N-FG
Measuring Instrument	R3261A (Advantest)

