



# Test Data

PC1U-160P-X2S

(AC85~264V)

DC POWER SUPPLY

Approved by : Mr. Imai

Prepared by : A. Tatumi

INPUT : AC 85V ~ 264V

OUTPUT : V1: 5V 10A (Peak 20A)  
V2: 3.3V 7A (Peak 14A)  
V3: 12V 6A (Peak 7A)  
V5: -12V 0.8A  
V6: 5Vs 1.5A (Peak 2.5A)

株式会社 ニプロン  
Nipron.Co.,Ltd.

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Model	PC1U-160P-X2S																
Item	Line Regulation																
<p>V1:5V 10A</p> <p>at AC Input</p> <p>Legend: Rated Load</p>		<p>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 85</td> <td>5.051</td> <td>1.02</td> </tr> <tr> <td>100</td> <td>5.051</td> <td>1.02</td> </tr> <tr> <td>240</td> <td>5.051</td> <td>1.02</td> </tr> <tr> <td>264</td> <td>5.051</td> <td>1.02</td> </tr> </tbody> </table>	Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]	AC 85	5.051	1.02	100	5.051	1.02	240	5.051	1.02	264	5.051	1.02
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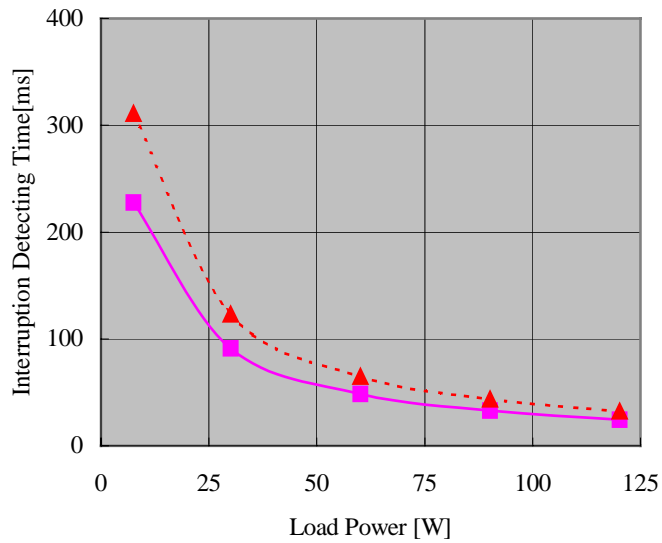
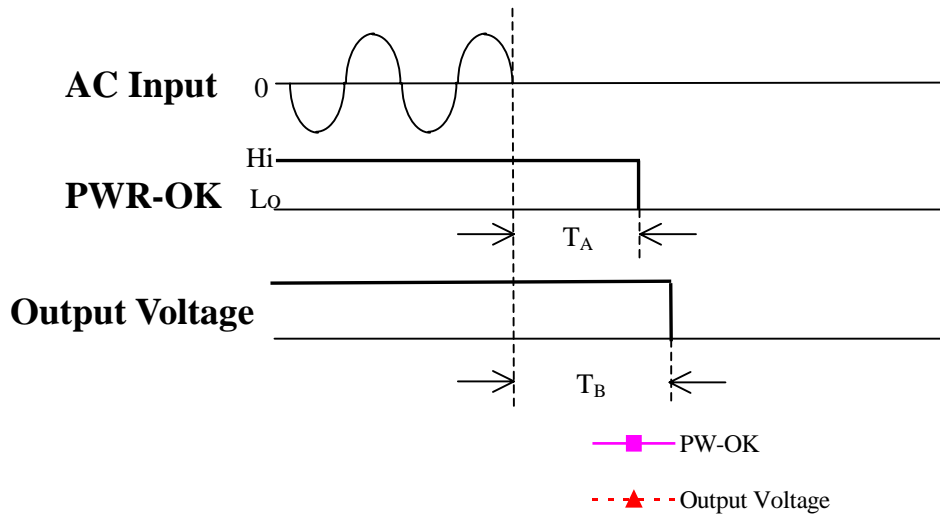
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Input Voltage [V]	Power Factor [%]																														
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120.2	99.53	99.45	91.69	88.06																											

Model	PC1U-160P-X2S
Item	Instantaneous Interruption Compensation (by Load Power)

at AC Input (85V / 100V / 240V / 264V)



Load Power [W]	Interruption Detecting Time (ms)	
	PWR-OK T <sub>A</sub>	DC Output T <sub>B</sub>
7.5	227.8	311.10
30.05	91.24	123.08
60.10	48.50	64.74
90.15	32.78	43.46
120.20	24.30	32.12

Model	PC1U-160P-X2S																																																																																						
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<b>V5:5Vs 1.5A</b> <p style="text-align: center;">at AC Input</p> <p style="text-align: center;">at AC Input</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="4">Fluctuation Value [%]</th> </tr> <tr> <th>Input Voltage AC85V</th> <th>Input Voltage AC100V</th> <th>Input Voltage AC240V</th> <th>Input Voltage AC264V</th> </tr> </thead> <tbody> <tr><td>7.5</td><td>1.92</td><td>1.92</td><td>1.92</td><td>1.92</td></tr> <tr><td>30.05</td><td>1.50</td><td>1.50</td><td>1.50</td><td>1.50</td></tr> <tr><td>60.1</td><td>1.02</td><td>1.02</td><td>1.02</td><td>1.02</td></tr> <tr><td>90.15</td><td>0.52</td><td>0.52</td><td>0.52</td><td>0.52</td></tr> <tr><td>120.2</td><td>0.04</td><td>0.04</td><td>0.04</td><td>0.04</td></tr> <tr><td>160.5</td><td>-0.60</td><td>-0.60</td><td>-0.60</td><td>-0.60</td></tr> </tbody> </table>		Load Power [W]	Fluctuation Value [%]				Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	7.5	1.92	1.92	1.92	1.92	30.05	1.50	1.50	1.50	1.50	60.1	1.02	1.02	1.02	1.02	90.15	0.52	0.52	0.52	0.52	120.2	0.04	0.04	0.04	0.04	160.5	-0.60	-0.60	-0.60	-0.60									
Load Power [W]	Fluctuation Value [%]																																																
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60.1	1.02	1.02	1.02	1.02																																													
90.15	0.52	0.52	0.52	0.52																																													
120.2	0.04	0.04	0.04	0.04																																													
160.5	-0.60	-0.60	-0.60	-0.60																																													
		<p style="text-align: center;">Load Condition</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="5">Load Current [A]</th> </tr> <tr> <th>5V</th> <th>3.3V</th> <th>12V</th> <th>-12V</th> <th>5Vs</th> </tr> </thead> <tbody> <tr><td>7.5</td><td>1.5</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>30.05</td><td>2.5</td><td>1.75</td><td>0.63</td><td>0.2</td><td>0.38</td></tr> <tr><td>60.1</td><td>5</td><td>3.5</td><td>1.25</td><td>0.4</td><td>0.75</td></tr> <tr><td>90.15</td><td>7.5</td><td>5.25</td><td>1.88</td><td>0.6</td><td>1.13</td></tr> <tr><td>120.2</td><td>10</td><td>7</td><td>2.5</td><td>0.8</td><td>1.5</td></tr> <tr><td>160.5</td><td>20</td><td>0</td><td>3.2</td><td>0.8</td><td>2.5</td></tr> </tbody> </table>	Load Power [W]	Load Current [A]					5V	3.3V	12V	-12V	5Vs	7.5	1.5	0	0	0	0	30.05	2.5	1.75	0.63	0.2	0.38	60.1	5	3.5	1.25	0.4	0.75	90.15	7.5	5.25	1.88	0.6	1.13	120.2	10	7	2.5	0.8	1.5	160.5	20	0	3.2	0.8	2.5
Load Power [W]	Load Current [A]																																																
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120.2	10	7	2.5	0.8	1.5																																												
160.5	20	0	3.2	0.8	2.5																																												

Model	PC1U-160P-X2S
Item	Ripple / Noise Voltage Test

Temperature	Input Voltage	V1 5V		V2 3.3V		V3 12V	
		Ripple (mV)	Noise (mV)	Ripple (mV)	Noise (mV)	Ripple (mV)	Noise (mV)
-5	85 V	30	/ 34	40	/ 42	100	/ 110
	100 V	30	/ 34	40	/ 42	100	/ 110
	240 V	30	/ 34	40	/ 42	100	/ 110
	264 V	30	/ 34	40	/ 42	100	/ 110
25	85 V	12	/ 30	34	/ 36	62	/ 70
	100 V	12	/ 30	34	/ 36	62	/ 70
	240 V	12	/ 30	34	/ 36	62	/ 70
	264 V	12	/ 30	34	/ 36	62	/ 70
55	85 V	10	/ 32	30	/ 32	60	/ 66
	100 V	10	/ 32	30	/ 32	60	/ 66
	240 V	10	/ 32	30	/ 32	60	/ 68
	264 V	10	/ 32	30	/ 32	60	/ 68
Specification		50	/ 100	50	/ 100	120	/ 170
Judgment		Good		Good		Good	

Temperature	Input Voltage	V4 -12V		V5 5VS	
		Ripple (mV)	Noise (mV)	Ripple (mV)	Noise (mV)
-5	85 V	8	/ 26	10	/ 28
	100 V	8	/ 26	10	/ 28
	240 V	8	/ 24	10	/ 28
	264 V	8	/ 24	10	/ 28
25	85 V	8	/ 10	10	/ 18
	100 V	8	/ 10	10	/ 18
	240 V	8	/ 10	10	/ 18
	264 V	8	/ 10	10	/ 18
55	85 V	5	/ 8	8	/ 14
	100 V	5	/ 8	8	/ 15
	240 V	5	/ 8	8	/ 15
	264 V	5	/ 8	8	/ 14
Specification		150	/ 200	50	/ 100
Judgment		Good		Good	

Model	PC1U-160P-X2S
Item	Over-Current Protection

Temperature	Input Voltage	V1 5V	V2 3.3V	V3 12V
-5	85 V	27.8 A	18.8 A	9.5 A
	100 V	27.9 A	18.9 A	9.5 A
	240 V	28.1 A	19.4 A	9.8 A
	264 V	28.2 A	19.4 A	9.8 A
25	85 V	26.8 A	20.8 A	9.4 A
	100 V	26.9 A	20.8 A	9.4 A
	240 V	27.2 A	19.0 A	9.8 A
	264 V	27.2 A	19.0 A	9.8 A
55	85 V	26.2 A	19.8 A	9.0 A
	100 V	26.1 A	19.8 A	9.0 A
	240 V	26.4 A	20.0 A	9.3 A
	264 V	26.4 A	20.0 A	9.3 A
Specification		22A or More	12A or More	7.7A or More
Judgment		Good	Good	Good

Temperature	Input Voltage	V4 -12V	V5 5VS
-5	85 V	1.70 A	4.00 A
	100 V	1.70 A	4.00 A
	240 V	1.70 A	4.00 A
	264 V	1.65 A	4.00 A
25	85 V	1.50 A	3.90 A
	100 V	1.50 A	3.90 A
	240 V	1.50 A	3.90 A
	264 V	1.50 A	3.90 A
55	85 V	1.40 A	3.60 A
	100 V	1.38 A	3.60 A
	240 V	1.38 A	3.60 A
	264 V	1.40 A	3.60 A
Specification		-	-
Judgment		-	-

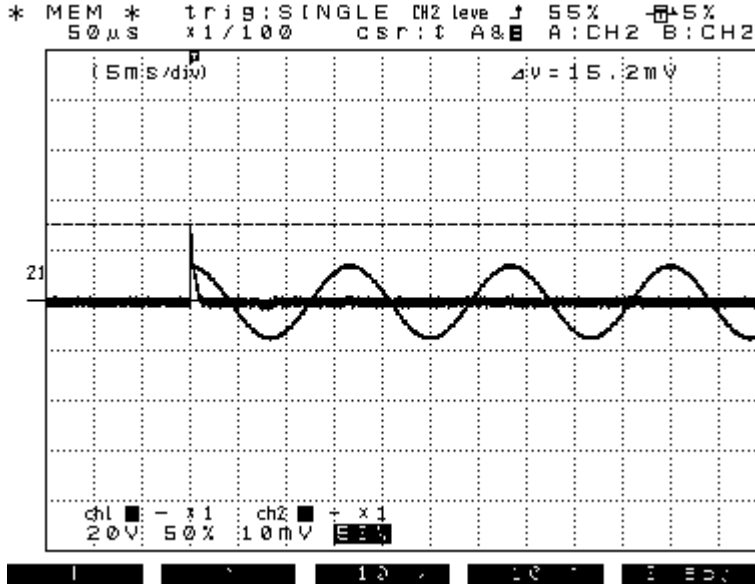
Model	PC1U-160P-X2S
Item	Over-Voltage Protection

Temperature	Input Voltage	V1:5V	V2:3.3V	V3:12V
-5	AC100V	6.8V	4.27V	15.2V
	AC240V	6.8V	4.28V	15.2V
25	AC100V	6.7V	4.05V	15.2V
	AC240V	6.7V	4.05V	15.2V
55	AC100V	6.6V	3.84V	15.2V
	AC240V	6.6V	3.85V	15.2V
Specification		6.0 ~ 7.0V	3.8 ~ 4.3V	14.0 ~ 15.6V
Judgment		Good	Good	Good

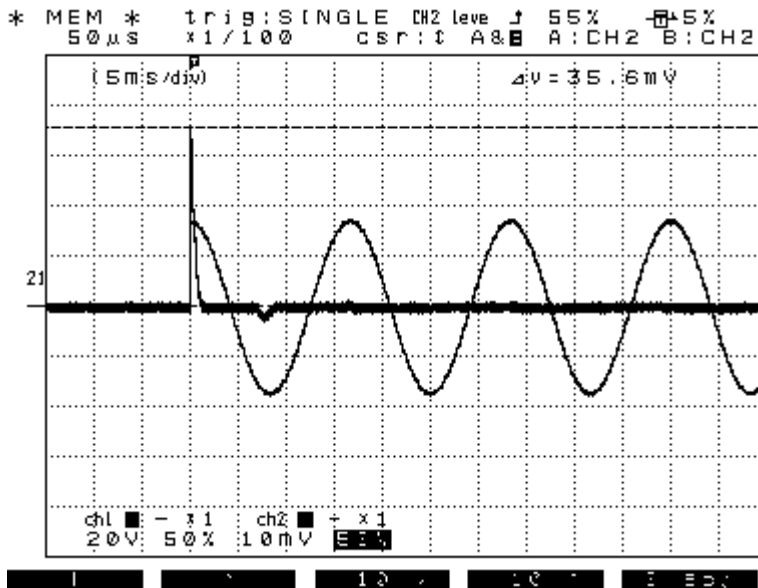


Model	PC1U-160P-X2S
Item	Inrush Current

Inrush Current Wave



Wave No.1	
CH1	Measuring Point : Input Voltage
	Range 200V/DIV
CH2	Measuring Point : Input Current
	Range 20A/DIV
Time Line	5ms/DIV
Conditions	Input : AC100V 60Hz Load : Rated Load
Note :	
Inrush Current Value : 30.4A	

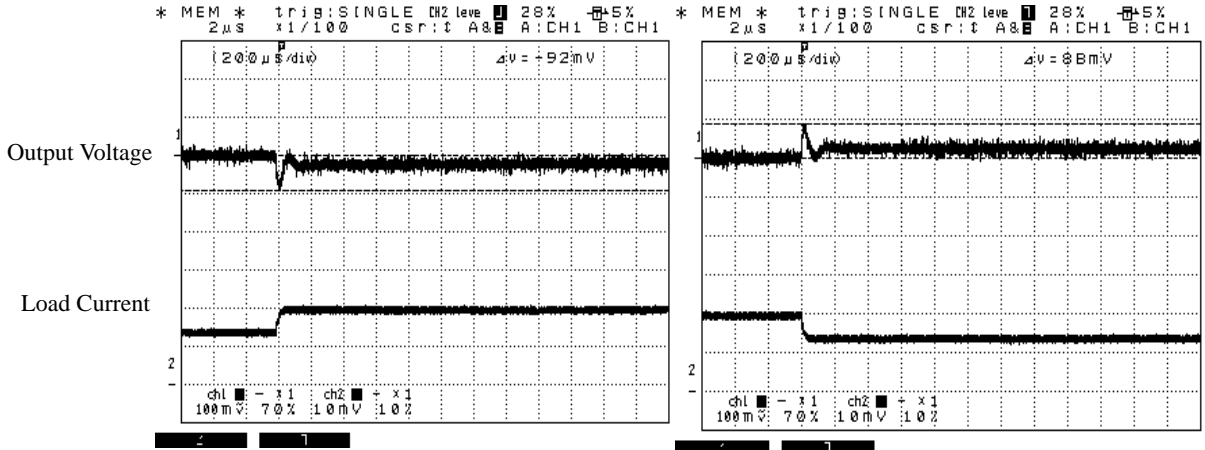


Wave No.2	
CH1	Measuring Point : Input Voltage
	Range 200V/DIV
CH2	Measuring Point : Input Current
	Range 20A/DIV
Time Line	5ms/DIV
Conditions	Input : AC240V 60Hz Load : Rated Load
Note :	
Inrush Current Value : 71.2A	

Model	PC1U-160P-X2S
Item	Dynamic Load Response

V1: +5V 10A

70% Load    100% Load

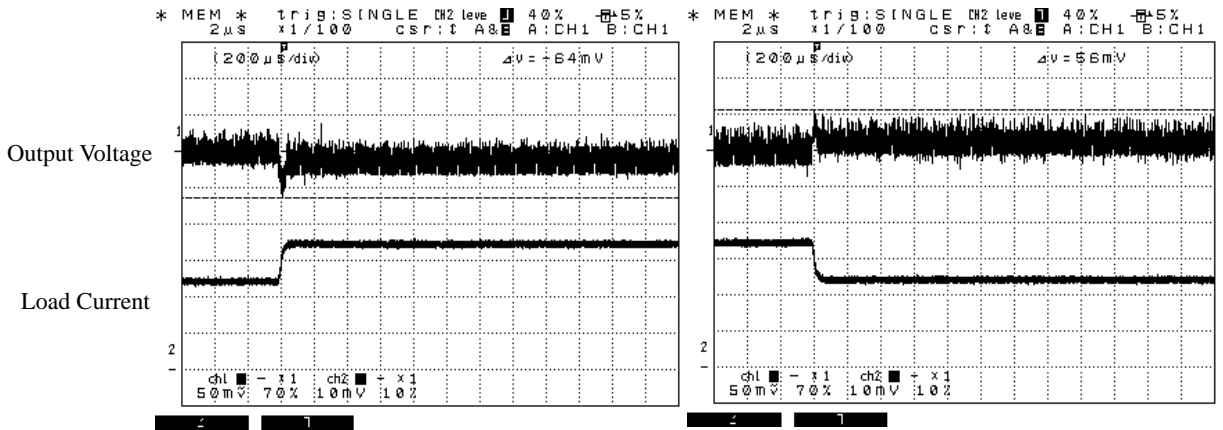


Sudden Fluctuation of Load	Fluctuation Value	ATX Specific Value	Judgment
70% Load    100% Load	- mV -92mV	± 250mV	Good
100% Load    70% Load	88mV - mV		Good

Model	PC1U-160P-X2S
Item	Dynamic Load Response

V2: +3.3V 7A

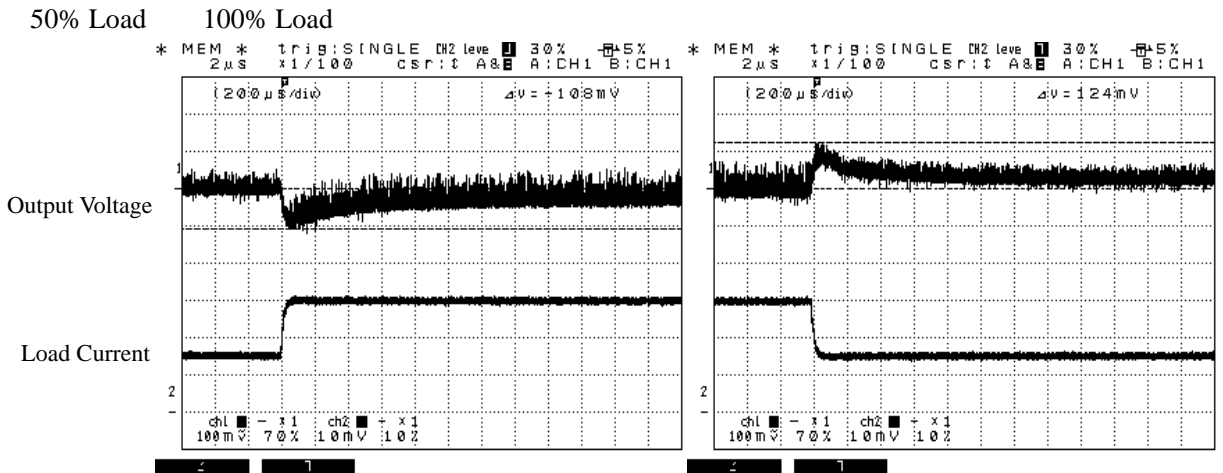
70% Load    100% Load



Sudden Fluctuation of Load	Fluctuation Value	ATX Specific Value	Judgment
70%Load    100% Load	-    mV -64mV	± 165mV	Good
100% Load    70% Load	56mV mV		Good

Model	PC1U-160P-X2S
Item	Dynamic Load Response

V3: +12V 6A



Sudden Fluctuation of Load	Fluctuation Value	ATX Specific Value	Judgment
50% Load    100% Load	- mV -108mV	± 600mV	Good
100% Load    50% Load	124mV - mV		Good

Model	PC1U-160P-X2S
Item	12V Cross Regulation

12V Load Current	12V Voltage Value [V]			
	5V 1.5A	5V 5A	5V 10A	5V 20A
0A	12.231	12.223	12.212	12.190
1A	12.217	12.209	12.198	12.176
2.5A	12.196	12.188	12.177	12.155
4A	12.176	12.168	12.157	12.135
6A	12.147	12.141	-	-
7A	12.134	12.128	-	-

12V Load Current	Fluctuation Value [%]			
	5V 1.5A	5V 5A	5V 10A	5V 20A
0A	1.93	1.86	1.77	1.58
1A	1.81	1.74	1.65	1.47
2.5A	1.63	1.57	1.48	1.29
4A	1.47	1.40	1.31	1.13
6A	1.23	1.20	-	-
7A	1.12	1.07	-	-

Model	PC1U-160P-X2S			
Item	Ambient Temperature Drift			
<b>V1:5V 10A</b>				
at AC Input				
Output Voltage [V]				
Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	5.060	5.060	5.060	5.060
25	5.051	5.051	5.051	5.051
55	5.038	5.038	5.038	5.038
Fluctuation Value [%]				
Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	1.20	1.20	1.20	1.20
25	1.02	1.02	1.02	1.02
55	0.76	0.76	0.76	0.76
<b>V2:3.3V 7A</b>				
at AC Input				
Output Voltage [V]				
Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	3.281	3.281	3.281	3.281
25	3.270	3.270	3.270	3.270
55	3.264	3.264	3.264	3.264
Fluctuation Value [%]				
Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	-0.58	-0.58	-0.58	-0.58
25	-0.91	-0.91	-0.91	-0.91
55	-1.09	-1.09	-1.09	-1.09

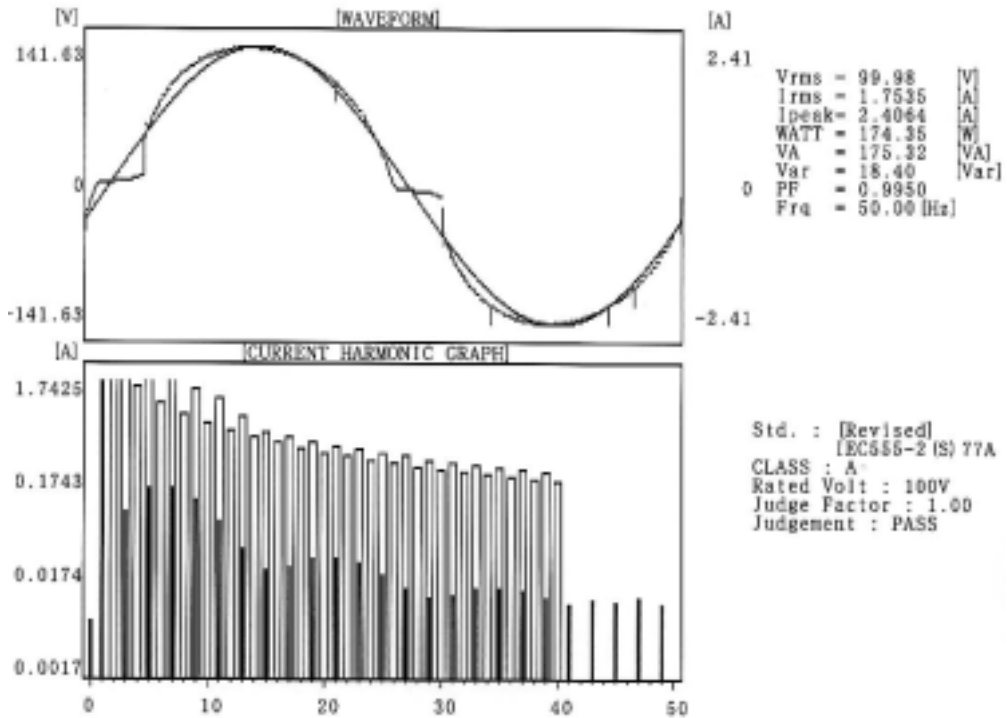
Model	PC1U-160P-X2S			
Item	Ambient Temperature Drift			
<b>V3:12V 6A</b>				
at AC Input				
Output Voltage [V]				
Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	12.176	12.176	12.176	12.176
25	12.167	12.167	12.167	12.167
55	12.162	12.162	12.162	12.162
Fluctuation Value [%]				
Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	1.47	1.47	1.47	1.47
25	1.39	1.39	1.39	1.39
55	1.35	1.35	1.35	1.35
<b>V4:-12V 0.8A</b>				
at AC Input				
Output Voltage [V]				
Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	-11.993	-11.993	-11.993	-11.993
25	-11.999	-11.999	-11.999	-11.999
55	-11.997	-11.997	-11.997	-11.997
Fluctuation Value [%]				
Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
-5	-0.06	-0.06	-0.06	-0.06
25	-0.01	-0.01	-0.01	-0.01
55	-0.02	-0.02	-0.02	-0.02

Model	PC1U-160P-X2S																																																																					
Item	Ambient Temperature Drift																																																																					
<b>V5:5Vs 1.5A</b>  <table border="1"> <caption>Graph Data: Fluctuation Value [%] vs Temperature [°C]</caption> <thead> <tr> <th>Temperature [°C]</th> <th>AC85V [%]</th> <th>AC100V [%]</th> <th>AC240V [%]</th> <th>AC264V [%]</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0.52</td> <td>0.52</td> <td>0.52</td> <td>0.52</td> </tr> <tr> <td>25</td> <td>0.04</td> <td>0.04</td> <td>0.04</td> <td>0.04</td> </tr> <tr> <td>55</td> <td>-0.28</td> <td>-0.28</td> <td>-0.28</td> <td>-0.28</td> </tr> </tbody> </table>		Temperature [°C]	AC85V [%]	AC100V [%]	AC240V [%]	AC264V [%]	0	0.52	0.52	0.52	0.52	25	0.04	0.04	0.04	0.04	55	-0.28	-0.28	-0.28	-0.28	<p style="text-align: center;">at AC Input</p> <table border="1"> <thead> <tr> <th rowspan="2">Temperature ( )</th> <th colspan="4">Output Voltage [V]</th> </tr> <tr> <th>Input Voltage AC85V</th> <th>Input Voltage AC100V</th> <th>Input Voltage AC240V</th> <th>Input Voltage AC264V</th> </tr> </thead> <tbody> <tr> <td>-5</td> <td>5.026</td> <td>5.026</td> <td>5.026</td> <td>5.026</td> </tr> <tr> <td>25</td> <td>5.002</td> <td>5.002</td> <td>5.002</td> <td>5.002</td> </tr> <tr> <td>55</td> <td>4.986</td> <td>4.986</td> <td>4.986</td> <td>4.986</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th rowspan="2">Temperature ( )</th> <th colspan="4">Fluctuation Value [%]</th> </tr> <tr> <th>Input Voltage AC85V</th> <th>Input Voltage AC100V</th> <th>Input Voltage AC240V</th> <th>Input Voltage AC264V</th> </tr> </thead> <tbody> <tr> <td>-5</td> <td>0.52</td> <td>0.52</td> <td>0.52</td> <td>0.52</td> </tr> <tr> <td>25</td> <td>0.04</td> <td>0.04</td> <td>0.04</td> <td>0.04</td> </tr> <tr> <td>55</td> <td>-0.28</td> <td>-0.28</td> <td>-0.28</td> <td>-0.28</td> </tr> </tbody> </table>	Temperature ( )	Output Voltage [V]				Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	-5	5.026	5.026	5.026	5.026	25	5.002	5.002	5.002	5.002	55	4.986	4.986	4.986	4.986	Temperature ( )	Fluctuation Value [%]				Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	-5	0.52	0.52	0.52	0.52	25	0.04	0.04	0.04	0.04	55	-0.28	-0.28	-0.28	-0.28
Temperature [°C]	AC85V [%]	AC100V [%]	AC240V [%]	AC264V [%]																																																																		
0	0.52	0.52	0.52	0.52																																																																		
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55	4.986	4.986	4.986	4.986																																																																		
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25	0.04	0.04	0.04	0.04																																																																		
55	-0.28	-0.28	-0.28	-0.28																																																																		



Model	PC1U-160P-X2S
Item	Harmonic Current

Measuring Instrument : MP701(Keisoku Giken)

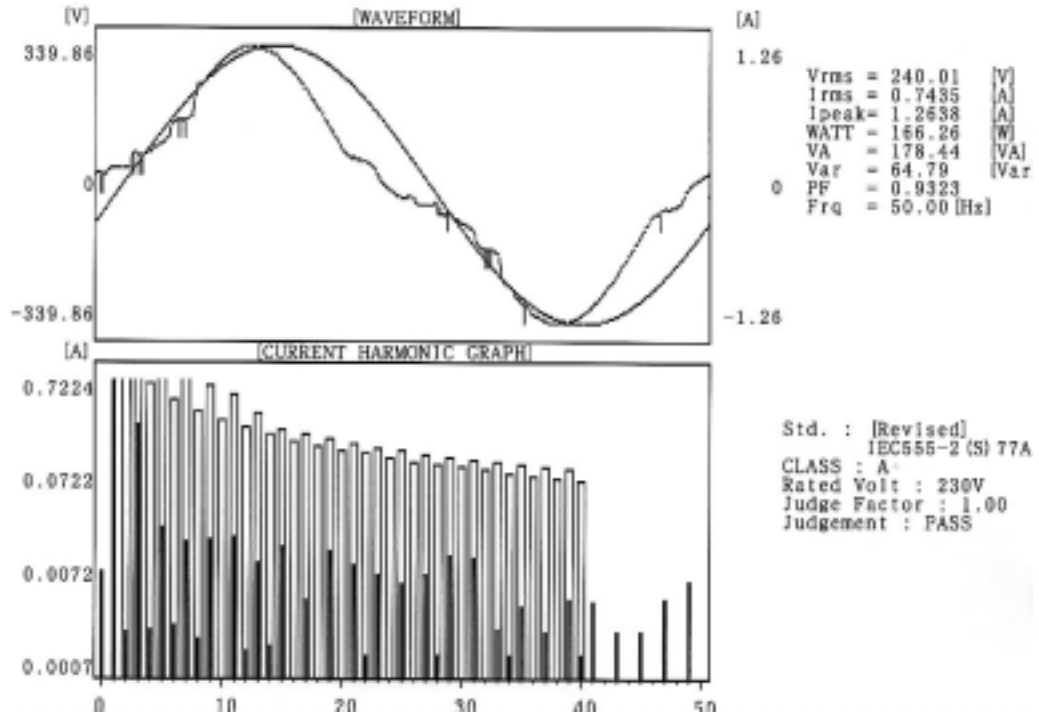


[CURRENT HARMONIC DATA]

No	(A)	No	(A)	No	(A)	No	(A)
00	0.0044	13	0.0241	26	0.0009	39	0.0077
01	1.7425	14	0.0010	27	0.0095	40	0.0002
02	0.0011	15	0.0144	28	0.0007	41	0.0065
03	0.0554	16	0.0008	29	0.0077	42	0.0002
04	0.0010	17	0.0158	30	0.0000	43	0.0071
05	0.0966	18	0.0000	31	0.0082	44	0.0009
06	0.0007	19	0.0188	32	0.0007	45	0.0070
07	0.0979	20	0.0007	33	0.0093	46	0.0007
08	0.0000	21	0.0188	34	0.0003	47	0.0077
09	0.0734	22	0.0007	35	0.0096	48	0.0002
10	0.0007	23	0.0168	36	0.0007	49	0.0066
11	0.0458	24	0.0010	37	0.0090		
12	0.0009	25	0.0130	38	0.0002		

Model	PC1U-160P-X2S
Item	Harmonic Current

Measuring Instrument : MP701(Keisoku Giken)



[CURRENT HARMONIC DATA]

No	(A)	No	(A)	No	(A)	No	(A)
00	0.0056	13	0.0072	26	0.0007	39	0.0030
01	0.7224	14	0.0010	27	0.0053	40	0.0008
02	0.0013	15	0.0106	28	0.0008	41	0.0028
03	0.1687	16	0.0007	29	0.0083	42	0.0004
04	0.0014	17	0.0030	30	0.0004	43	0.0014
05	0.0158	18	0.0004	31	0.0078	44	0.0002
06	0.0016	19	0.0095	32	0.0000	45	0.0014
07	0.0115	20	0.0007	33	0.0015	46	0.0002
08	0.0011	21	0.0068	34	0.0008	47	0.0029
09	0.0121	22	0.0008	35	0.0025	48	0.0004
10	0.0007	23	0.0055	36	0.0004	49	0.0046
11	0.0127	24	0.0000	37	0.0013		
12	0.0009	25	0.0043	38	0.0000		

Model	PC1U-160P-X2S
Item	Leakage Current Test

Temperature Room Temperature  
 Input AC100V, 240V  
 Load Rated Load , Minimum Load

Input Voltage (V)	at Rated Load (mA)	at Minimum Load (mA)
100V	0.32	0.29
240V	0.70	0.65

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

Model	PC1U-160P-X2S
Item	Line Noise Tolerance

Temperature	Room Temperature
Input	AC100V,60Hz
Load	Rated Load
Noise Impressed Voltage	± 2000V
Repeat Cycle	10 ~ 35ms
Pulse Width	100,800ns

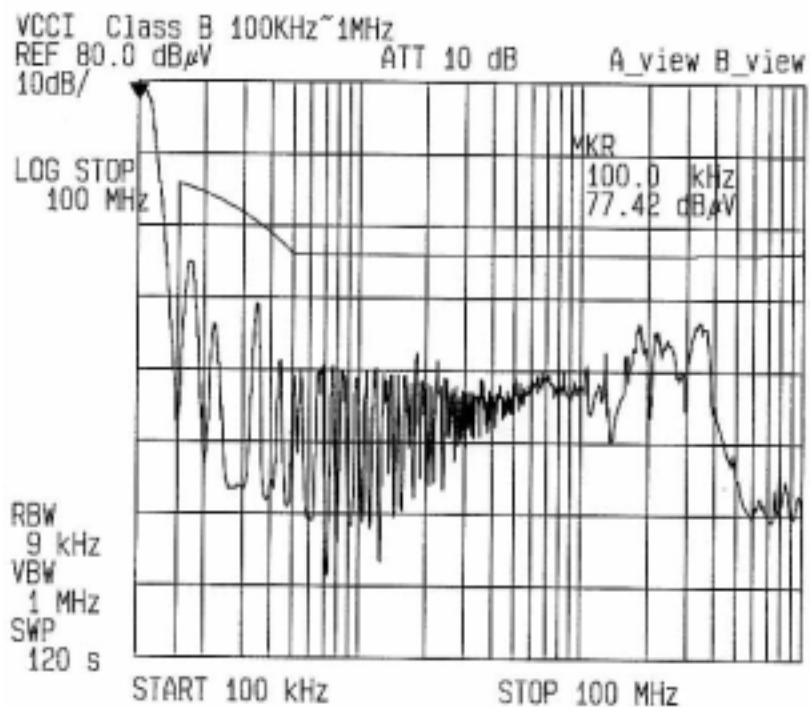
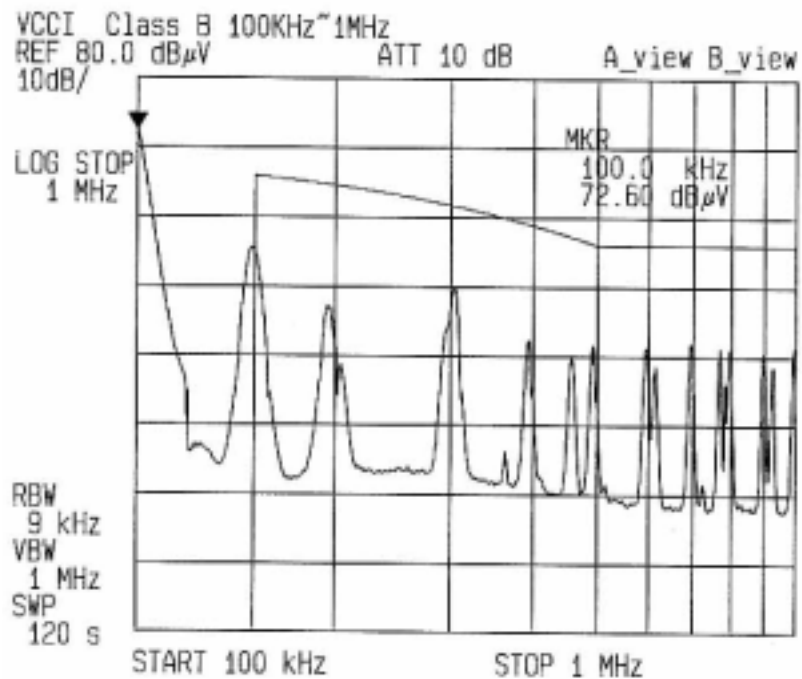
Normal	Pulse Impressed Mode			
	100ns		800ns	
	Polarity +	Polarity -	Polarity +	Polarity -
Common R Phase	Pulse Impressed Mode			
	100ns		800ns	
	Polarity +	Polarity -	Polarity +	Polarity -
Common S Phase	Pulse Impressed Mode			
	100ns		800ns	
	Polarity +	Polarity -	Polarity +	Polarity -

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

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

Model	PC1U-160P-X2S
Item	Conduction Emission

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



Model	PC1U-160P-X2S
Item	Conduction Emission

Temperature Room Temperature  
 Input AC240V  
 Load Actual Load  
 Measuring Point L-FG  
 Measuring Instrument R3261A (Advantest)

