



# Test Data

PCSA-470P-X2S

(AC(85)90~264V)

## DC POWER SUPPLY

Approved by : K. Imai

Prepared by : A. Takeda

INPUT : AC (85)90V ~ 264V

OUTPUT : V1: 3.3V 15A (Peak 31A)  
V2: 5V 20A (Peak 40A)  
V3: 12V 14A (Peak 20A)  
V4: -5V 0.5A  
V5: -12V 0.9A  
V6: 5Vs 2.2A (Peak 3A)

株式会社 ニプロン  
Nipron.Co.,Ltd.

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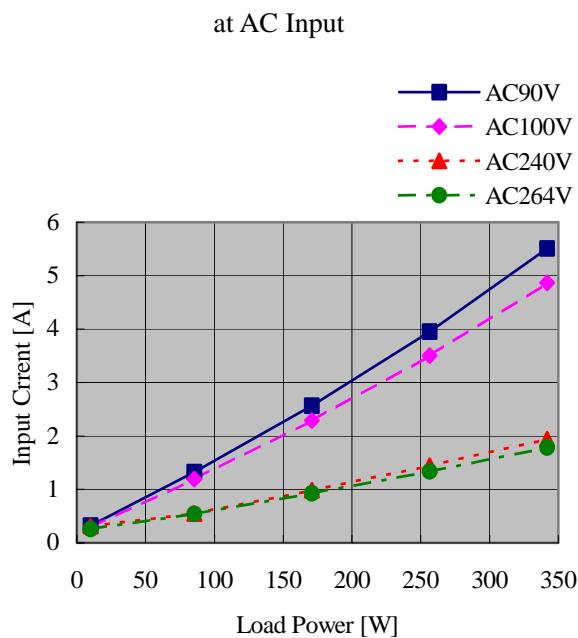
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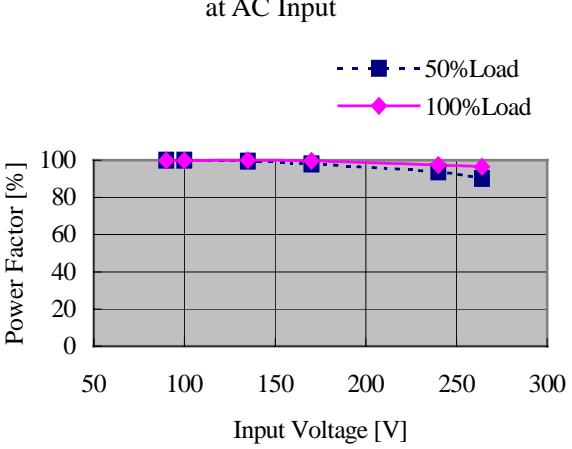
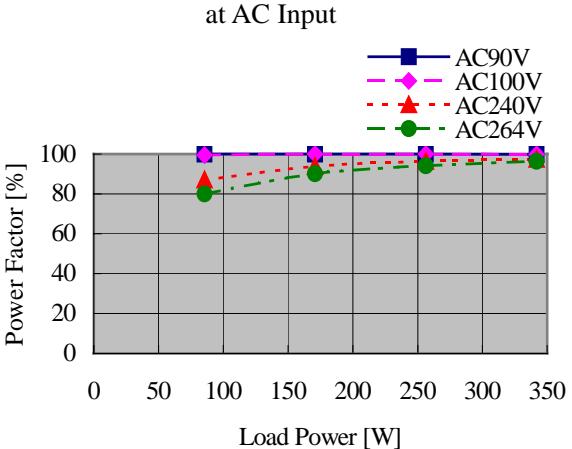
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Model	PCSA-470P-X2S				
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Load Power [W]	Input Current [A rms]	Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
10	0.32	0.29	0.32	0.26	
85.45	1.33	1.19	0.55	0.54	
170.9	2.57	2.29	0.98	0.93	
256.35	3.95	3.50	1.44	1.34	
341.8	5.51	4.86	1.94	1.78	



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Model	PCSA-470P-X2S																					
Item	Instantaneous Interruption Compensation (by Load Power)																					
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Model	PCSA-470P-X2S																																																														
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Model	PCSA-470P-X2S	
Item	Ripple / Noise Voltage Test	

		V1 3.3V	V2 5V	V3 12V
Temperature	Input Voltage	Ripple / Noise (mV)	Ripple / Noise (mV)	Ripple / Noise (mV)
-5	90 V	36 / 60	24 / 60	20 / 72
	100 V	36 / 60	24 / 60	20 / 72
	240 V	36 / 60	24 / 60	20 / 72
	264 V	36 / 60	24 / 60	20 / 72
25	90 V	32 / 56	20 / 68	16 / 60
	100 V	32 / 52	20 / 68	16 / 60
	240 V	32 / 56	20 / 68	16 / 60
	264 V	32 / 56	20 / 68	16 / 60
35	90 V	30 / 56	18 / 68	12 / 56
	100 V	30 / 56	18 / 68	12 / 56
	240 V	30 / 60	18 / 68	12 / 52
	264 V	30 / 60	18 / 68	12 / 52
Specification	50 / 100	50 / 100	120 / 170	
Judgment	Good	Good	Good	

		V4 -5V	V5 -12V	V6 5VS
Temperature	Input Voltage	Ripple / Noise (mV)	Ripple / Noise (mV)	Ripple / Noise (mV)
-5	90 V	12 / 52	16 / 88	30 / 80
	100 V	12 / 48	16 / 80	30 / 76
	240 V	12 / 48	16 / 72	28 / 76
	264 V	12 / 48	16 / 68	28 / 76
25	90 V	12 / 36	20 / 48	30 / 80
	100 V	12 / 36	20 / 48	30 / 76
	240 V	12 / 36	20 / 52	24 / 76
	264 V	12 / 36	20 / 52	24 / 76
35	90 V	10 / 36	10 / 40	20 / 80
	100 V	10 / 36	10 / 40	20 / 80
	240 V	10 / 36	10 / 40	20 / 76
	264 V	10 / 36	10 / 40	20 / 76
Specification	50 / 100	120 / 170	50 / 100	
Judgment	Good	Good	Good	

Model	PCSA-470P-X2S				
Item	Ripple / Noise Voltage Test				

		V1	3.3V	V2	5V	V3	12V
Temperature	Input Voltage	Ripple (mV)	/ Noise (mV)	Ripple (mV)	/ Noise (mV)	Ripple (mV)	/ Noise (mV)
45 (1)	90 V	24	/ 80	10	/ 80	12	/ 64
	100 V	24	/ 80	10	/ 80	12	/ 64
	240 V	24	/ 80	10	/ 80	12	/ 64
	264 V	24	/ 80	10	/ 80	12	/ 64
55 (2)	90 V	24	/ 80	10	/ 64	12	/ 62
	100 V	24	/ 78	10	/ 64	12	/ 62
	240 V	24	/ 78	10	/ 66	12	/ 58
	264 V	24	/ 78	10	/ 66	12	/ 58
65 (3)	90 V	24	/ 76	10	/ 66	16	/ 62
	100 V	24	/ 76	10	/ 66	16	/ 62
	240 V	24	/ 76	10	/ 62	12	/ 56
	264 V	24	/ 76	10	/ 62	12	/ 56
Specification		50	/ 100	50	/ 100	120	/ 170
Judgment		Good		Good		Good	

		V4	-5V	V5	-12V	V6	5VS
Temperature	Input Voltage	Ripple (mV)	/ Noise (mV)	Ripple (mV)	/ Noise (mV)	Ripple (mV)	/ Noise (mV)
45 (1)	90 V	10	/ 36	10	/ 40	16	/ 76
	100 V	10	/ 36	10	/ 40	16	/ 76
	240 V	10	/ 36	10	/ 44	16	/ 72
	264 V	10	/ 36	10	/ 44	16	/ 72
55 (2)	90 V	10	/ 36	10	/ 46	16	/ 76
	100 V	10	/ 36	10	/ 46	16	/ 72
	240 V	10	/ 36	10	/ 46	16	/ 72
	264 V	10	/ 36	10	/ 46	16	/ 72
65 (3)	90 V	10	/ 36	10	/ 46	16	/ 72
	100 V	10	/ 36	10	/ 46	12	/ 72
	240 V	10	/ 36	10	/ 46	12	/ 70
	264 V	10	/ 36	10	/ 46	12	/ 70
Specification		50	/ 100	120	/ 170	50	/ 100
Judgment		Good		Good		Good	

(1) 90% of Rated Load

(2) 80% of Rated Load

(3) 70% of Rated Load

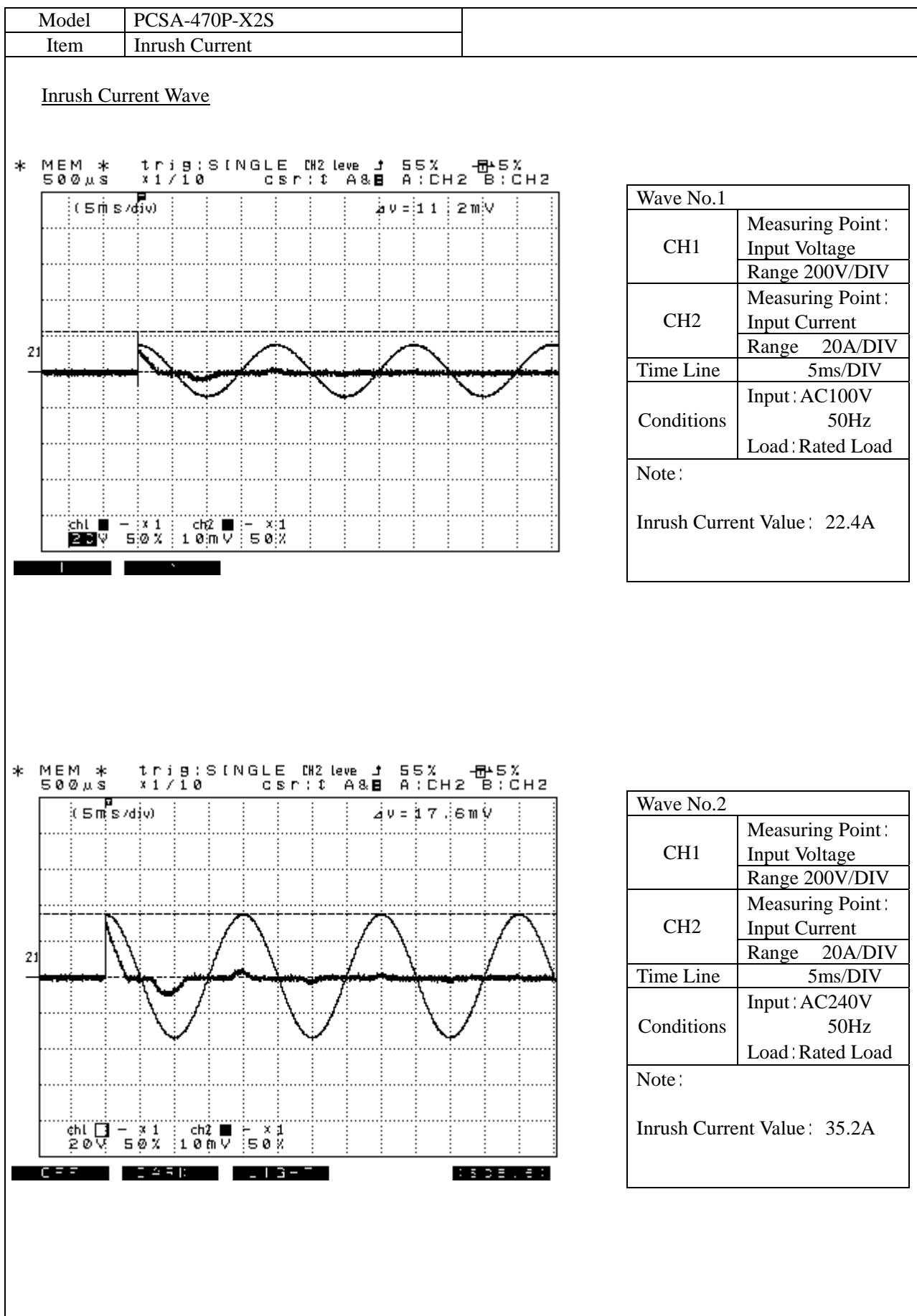
Model	PCSA-470P-X2S			
Item	Over-Current Protection			

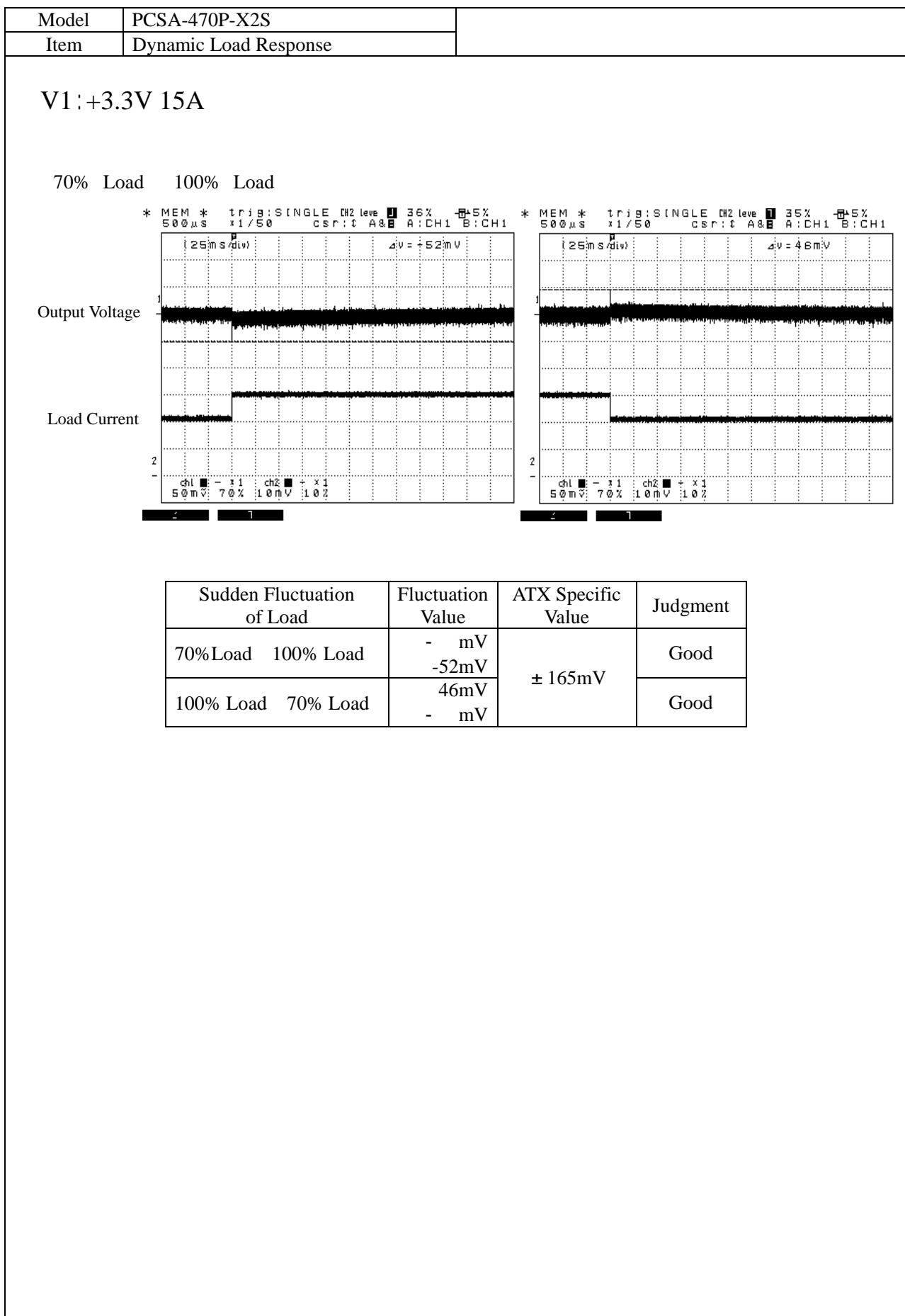
Temperature	Input Voltage	V1 3.3V	V2 5V	V3 12V
-5	90 V	38.5 A	58.0 A	27.2 A
	100 V	38.5 A	58.5 A	27.6 A
	240 V	38.5 A	59.0 A	28.0 A
	264 V	38.5 A	59.0 A	27.8 A
25	90 V	37.0 A	59.0 A	29.5 A
	100 V	38.0 A	59.0 A	29.5 A
	240 V	38.0 A	59.5 A	30.5 A
	264 V	38.0 A	59.5 A	30.0 A
35	90 V	37.5 A	57.5 A	27.2 A
	100 V	37.5 A	58.0 A	27.6 A
	240 V	38.0 A	59.0 A	28.0 A
	264 V	38.0 A	59.0 A	28.0 A
Specification		32A or More	43A or More	21A or More
Judgment		Good	Good	Good

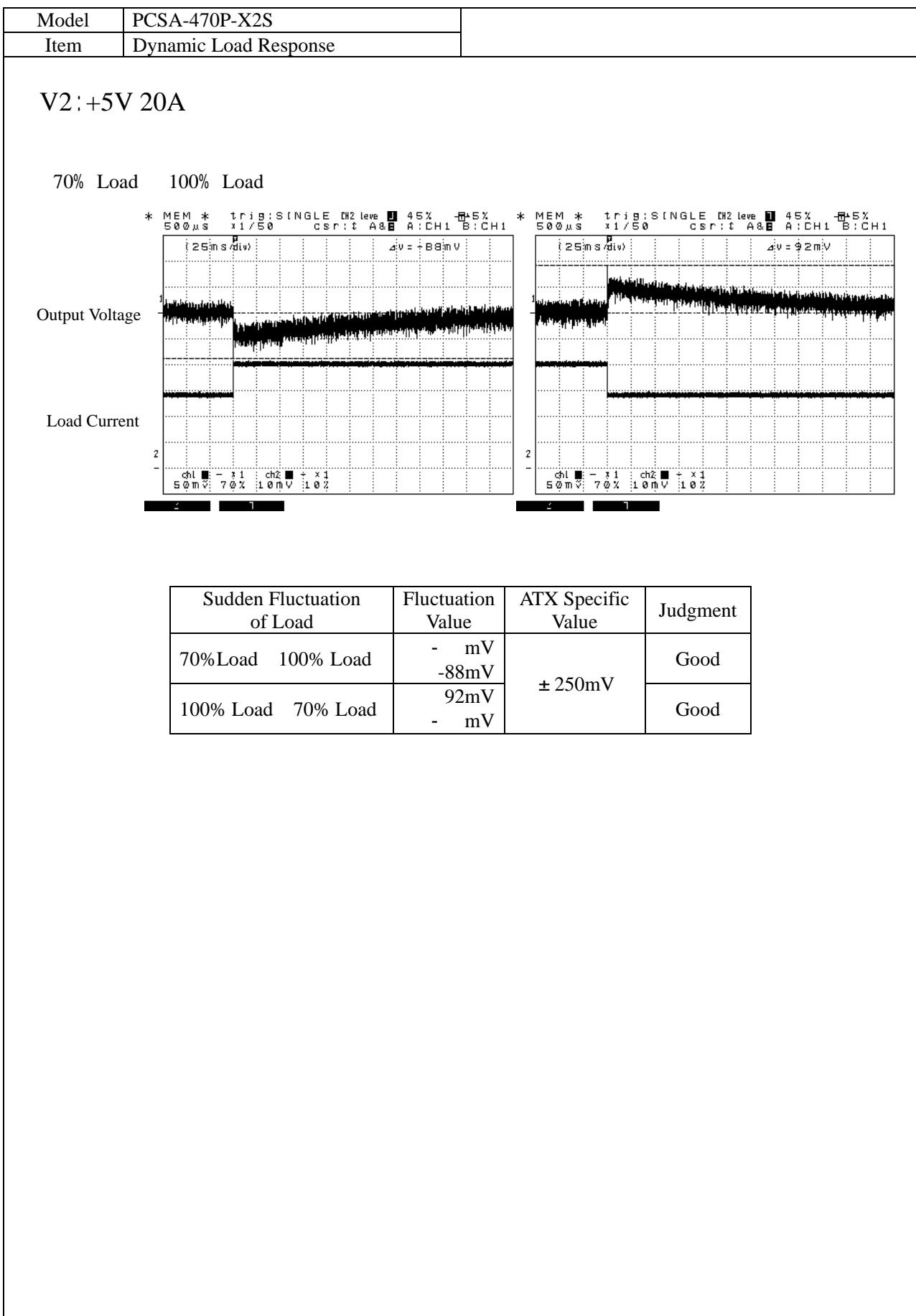
Temperature	Input Voltage	V4 -5V	V5 -12V	V6 5VS
-5	90 V	1.05 A	1.92 A	5.80 A
	100 V	1.05 A	1.94 A	5.80 A
	240 V	1.03 A	1.92 A	5.90 A
	264 V	1.03 A	1.94 A	5.90 A
25	90 V	0.95 A	1.65 A	5.30 A
	100 V	0.95 A	1.65 A	5.30 A
	240 V	0.95 A	1.64 A	5.30 A
	264 V	0.95 A	1.62 A	5.20 A
35	90 V	0.90 A	1.65 A	5.20 A
	100 V	0.89 A	1.60 A	5.30 A
	240 V	0.89 A	1.60 A	5.35 A
	264 V	0.89 A	1.60 A	5.35 A
Specification		0.55A or More	0.95A or More	3.1A or More
Judgment		Good	Good	Good

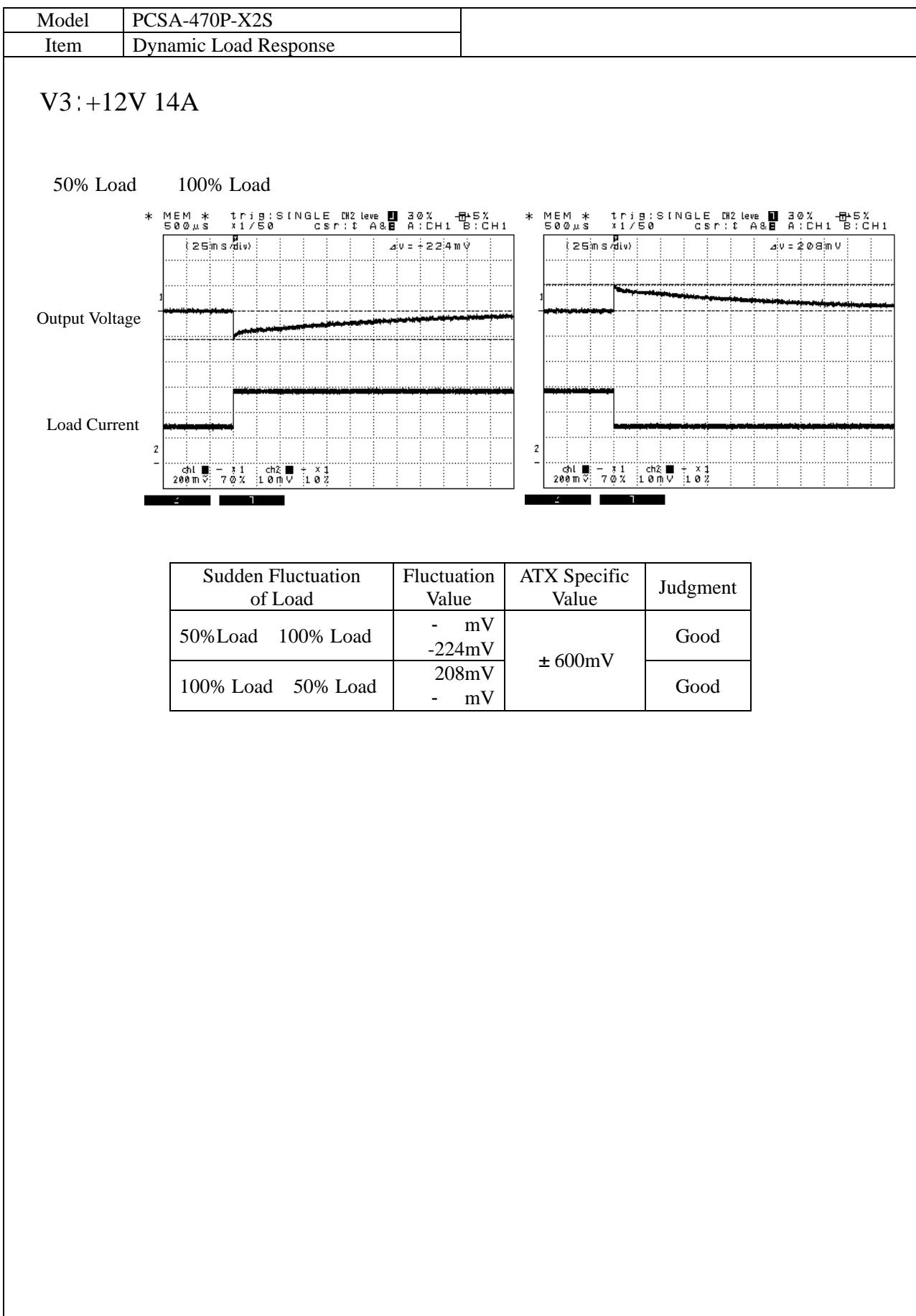
Model	PCSA-470P-X2S			
Item	Over-Voltage Protection			

Temperature	Input Voltage	V1:3.3V	V2:5V	V3:12V
-5	AC100V	4.17V	6.60V	14.40V
	AC240V	4.17V	6.60V	14.40V
25	AC100V	4.20V	6.40V	14.60V
	AC240V	4.20V	6.40V	14.60V
35	AC100V	4.20V	6.40V	14.65V
	AC240V	4.20V	6.40V	14.65V
45	AC100V	4.20V	6.50V	14.65V
	AC240V	4.20V	6.50V	14.65V
55	AC100V	4.20V	6.50V	14.65V
	AC240V	4.20V	6.50V	14.65V
65	AC100V	4.20V	6.50V	14.67V
	AC240V	4.20V	6.50V	14.69V
Specification		3.7 ~ 4.3V	5.6 ~ 7.0V	13.8 ~ 15.6V
Judgment		Good	Good	Good









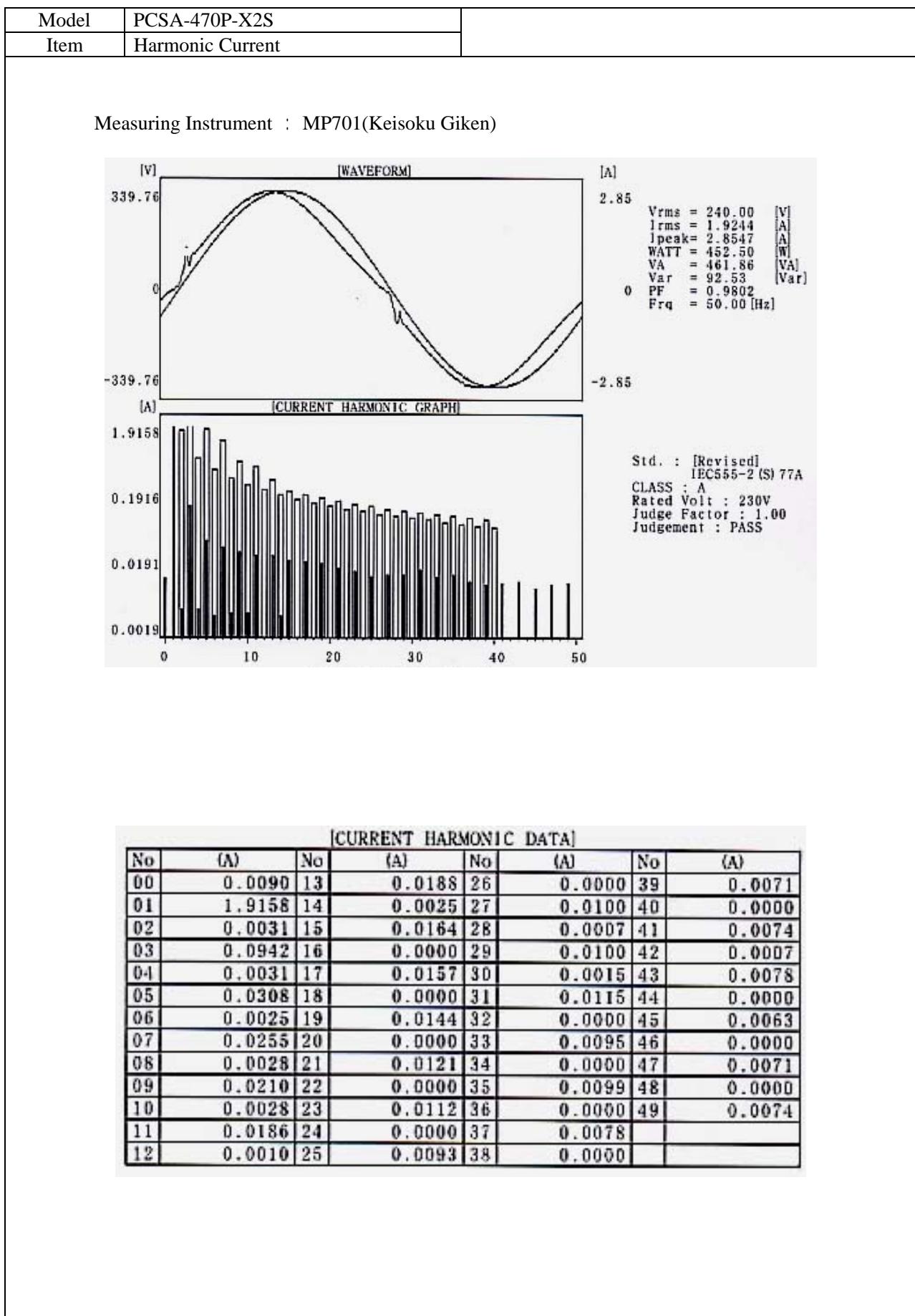
Model	PCSA-470P-X2S																																												
Item	12V Cross Regulation																																												
		<p>Fluctuation Value [%]</p> <p>12V Load Current [A]</p> <ul style="list-style-type: none"> <li>5V 2A</li> <li>5V 10A</li> <li>5V 20A</li> <li>5V 40A</li> </ul>																																											
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Model	PCSA-470P-X2S																																								
Item	Ambient Temperature Drift																																								
<b>V1:3.3V 15A</b>																																									
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Temperature (°C)	Output Voltage [V]																																								
	Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																																					
-5	3.320	3.320	3.320	3.320																																					
25	3.316	3.316	3.316	3.316																																					
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Temperature (°C)	Fluctuation Value [%]																																								
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35	0.73	0.73	0.73	0.73																																					
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Model	PCSA-470P-X2S																																				
Item	Ambient Temperature Drift																																				
<b>V3:12V 14A</b>																																					
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Temperature (°C)	Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																																	
-5	0.95	0.93	0.88	0.88																																	
25	1.23	1.26	1.27	1.27																																	
35	1.28	1.26	1.20	1.20																																	
45 <sup>(1)</sup>	0.82	0.82	0.77	0.77																																	
55 <sup>(2)</sup>	0.55	0.54	0.50	0.50																																	
65 <sup>(3)</sup>	0.47	0.45	0.43	0.43																																	
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<b>V4:-5V 0.5A</b>																																					
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Temperature (°C)	Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																																	
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45 <sup>(1)</sup>	-5.065	-5.065	-5.065	-5.065																																	
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Temperature (°C)	Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																																	
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Model	PCSA-470P-X2S					
Item	Ambient Temperature Drift					
<b>V5:-12V 0.9A</b>						
		AC90V	AC100V	AC240V	AC264V	
		at AC Input				
		Output Voltage [V]				
		Temperature (°C)	Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
		-5	-11.948	-11.948	-11.948	-11.948
		25	-11.946	-11.946	-11.946	-11.946
		35	-11.949	-11.949	-11.949	-11.949
		45 <sup>(1)</sup>	-11.908	-11.908	-11.908	-11.908
		55 <sup>(2)</sup>	-11.802	-11.802	-11.802	-11.802
		65 <sup>(3)</sup>	-11.830	-11.830	-11.830	-11.830
<b>V6:5Vs 2.2A</b>						
		AC90V	AC100V	AC240V	AC264V	
		at AC Input				
		Output Voltage [V]				
		Temperature (°C)	Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
		-5	4.958	4.953	4.953	4.952
		25	4.950	4.950	4.950	4.950
		35	4.956	4.956	4.956	4.956
		45 <sup>(1)</sup>	4.964	4.964	4.964	4.964
		55 <sup>(2)</sup>	4.911	4.911	4.911	4.911
		65 <sup>(3)</sup>	4.988	4.988	4.988	4.988
		Fluctuation Value [%]				
		Temperature (°C)	Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
		-5	-0.84	-0.94	-0.94	-0.96
		25	-1.00	-1.00	-1.00	-1.00
		35	-0.88	-0.88	-0.88	-0.88
		45 <sup>(1)</sup>	-0.72	-0.72	-0.72	-0.72
		55 <sup>(2)</sup>	-1.78	-1.78	-1.78	-1.78
		65 <sup>(3)</sup>	-0.24	-0.24	-0.24	-0.24
		(1) 90% of Rated Load (2) 80% of Rated Load (3) 70% of Rated Load				

Model	PCSA-470P-X2S																																																																																																																	
Item	Harmonic Current																																																																																																																	
Measuring Instrument : MP701(Keisoku Giken)																																																																																																																		
<p style="text-align: center;">[WAVEFORM]</p> <p style="text-align: center;">[CURRENT HARMONIC GRAPH]</p> <p>Vrms = 100.02 [V]      Irms = 4.8422 [A]      Ipeak = 6.7207 [A]      WATT = 483.28 [W]      VA = 484.33 [VA]      Var = 31.81 [Var]      PF = 0.9983      Frq = 50.00 [Hz]</p> <p>Std. : [Revised] IEC555-2 (S) 77A      CLASS : A      Rated Volt : 100V      Judge Factor : 1.00      Judgement : PASS</p>																																																																																																																		
<p style="text-align: center;">[CURRENT HARMONIC DATA]</p> <table border="1"> <thead> <tr> <th>No</th> <th>(A)</th> <th>No</th> <th>(A)</th> <th>No</th> <th>(A)</th> <th>No</th> <th>(A)</th> </tr> </thead> <tbody> <tr><td>00</td><td><b>0.0067</b></td><td>13</td><td><b>0.0262</b></td><td>26</td><td><b>0.0000</b></td><td>39</td><td><b>0.0345</b></td></tr> <tr><td>01</td><td><b>4.8298</b></td><td>14</td><td><b>0.0025</b></td><td>27</td><td><b>0.0546</b></td><td>40</td><td><b>0.0000</b></td></tr> <tr><td>02</td><td><b>0.0038</b></td><td>15</td><td><b>0.0360</b></td><td>28</td><td><b>0.0000</b></td><td>41</td><td><b>0.0363</b></td></tr> <tr><td>03</td><td><b>0.1486</b></td><td>16</td><td><b>0.0025</b></td><td>29</td><td><b>0.0429</b></td><td>42</td><td><b>0.0022</b></td></tr> <tr><td>04</td><td><b>0.0031</b></td><td>17</td><td><b>0.0493</b></td><td>30</td><td><b>0.0022</b></td><td>43</td><td><b>0.0378</b></td></tr> <tr><td>05</td><td><b>0.1050</b></td><td>18</td><td><b>0.0031</b></td><td>31</td><td><b>0.0344</b></td><td>44</td><td><b>0.0022</b></td></tr> <tr><td>06</td><td><b>0.0031</b></td><td>19</td><td><b>0.0587</b></td><td>32</td><td><b>0.0025</b></td><td>45</td><td><b>0.0374</b></td></tr> <tr><td>07</td><td><b>0.0676</b></td><td>20</td><td><b>0.0031</b></td><td>33</td><td><b>0.0294</b></td><td>46</td><td><b>0.0031</b></td></tr> <tr><td>08</td><td><b>0.0031</b></td><td>21</td><td><b>0.0658</b></td><td>34</td><td><b>0.0015</b></td><td>47</td><td><b>0.0347</b></td></tr> <tr><td>09</td><td><b>0.0434</b></td><td>22</td><td><b>0.0025</b></td><td>35</td><td><b>0.0283</b></td><td>48</td><td><b>0.0022</b></td></tr> <tr><td>10</td><td><b>0.0031</b></td><td>23</td><td><b>0.0659</b></td><td>36</td><td><b>0.0022</b></td><td>49</td><td><b>0.0298</b></td></tr> <tr><td>11</td><td><b>0.0275</b></td><td>24</td><td><b>0.0022</b></td><td>37</td><td><b>0.0317</b></td><td></td><td></td></tr> <tr><td>12</td><td><b>0.0031</b></td><td>25</td><td><b>0.0623</b></td><td>38</td><td><b>0.0000</b></td><td></td><td></td></tr> </tbody> </table>			No	(A)	No	(A)	No	(A)	No	(A)	00	<b>0.0067</b>	13	<b>0.0262</b>	26	<b>0.0000</b>	39	<b>0.0345</b>	01	<b>4.8298</b>	14	<b>0.0025</b>	27	<b>0.0546</b>	40	<b>0.0000</b>	02	<b>0.0038</b>	15	<b>0.0360</b>	28	<b>0.0000</b>	41	<b>0.0363</b>	03	<b>0.1486</b>	16	<b>0.0025</b>	29	<b>0.0429</b>	42	<b>0.0022</b>	04	<b>0.0031</b>	17	<b>0.0493</b>	30	<b>0.0022</b>	43	<b>0.0378</b>	05	<b>0.1050</b>	18	<b>0.0031</b>	31	<b>0.0344</b>	44	<b>0.0022</b>	06	<b>0.0031</b>	19	<b>0.0587</b>	32	<b>0.0025</b>	45	<b>0.0374</b>	07	<b>0.0676</b>	20	<b>0.0031</b>	33	<b>0.0294</b>	46	<b>0.0031</b>	08	<b>0.0031</b>	21	<b>0.0658</b>	34	<b>0.0015</b>	47	<b>0.0347</b>	09	<b>0.0434</b>	22	<b>0.0025</b>	35	<b>0.0283</b>	48	<b>0.0022</b>	10	<b>0.0031</b>	23	<b>0.0659</b>	36	<b>0.0022</b>	49	<b>0.0298</b>	11	<b>0.0275</b>	24	<b>0.0022</b>	37	<b>0.0317</b>			12	<b>0.0031</b>	25	<b>0.0623</b>	38	<b>0.0000</b>		
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Model	PCSA-470P-X2S
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	0.37	0.39
200V	0.73	0.76

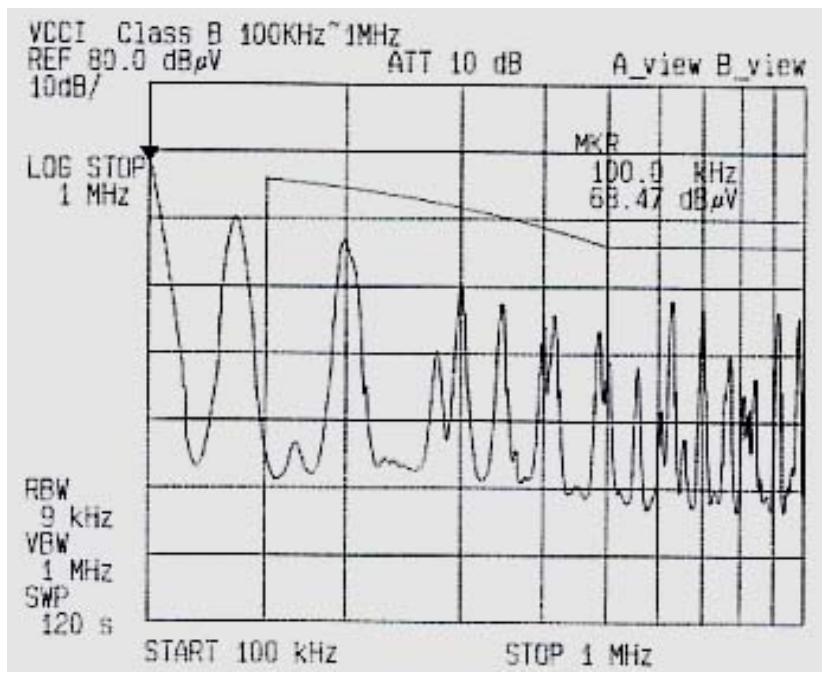
Measuring Instrument: YEW.TYPE3226 Applicable Products ( Range: 1K )

Model	PCSA-470P-X2S					
Item	Line Noise Tolerance					
<u>Temperature</u> Room Temperature						
<u>Input</u> AC100V,60Hz						
<u>Load</u> Rated Load						
<u>Noise Impressed Voltage</u> $\pm 2000V$						
<u>Repeat Cycle</u> 10 ~ 35ms						
<u>Pulse Width</u> 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-470P-X2S	
Item	Conduction Emission	
Temperature	Room Temperature	
Input	AC100V	
Load	Rated Load	
Measuring Point	L-FG	
Measuring Instrument	R3261A (Advantest)	

Model	PCSA-470P-X2S
Item	Conduction Emission
Temperature	Room Temperature
Input	AC240V
Load	Rated Load
Measuring Point	L-FG
Measuring Instrument	R3261A (Advantest)

VCCI Class B 100KHz~1MHz  
 REF 80.0 dB $\mu$ V      ATT 10 dB      A\_view B\_view  
 10dB/  
 LOG STOP  
 1 MHz  
 RBW 9 kHz  
 VBW 1 MHz  
 SWP 120 s  
 START 100 KHz      STOP 1 MHz  
 MKR 100.0 KHz 66.47 dB $\mu$ V



VCCI Class B 100KHz~1MHz  
 REF 80.0 dB $\mu$ V      ATT 10 dB      A\_view B\_view  
 10dB/  
 LOG STOP  
 100 MHz  
 RBW 9 kHz  
 VBW 1 MHz  
 SWP 120 s  
 START 100 KHz      STOP 100 MHz  
 MKR 100.0 KHz 66.30 dB $\mu$ V

