



# Test Data

NSP7-100-X2S

(AC85~135V, AC170~264V And DC26.4V Battery INPUT)

## NON-STOP POWER SUPPLY

Approved by : Osami Nakami

Prepared by : Yoichi Aisaka

INPUT : AC 85V ~ 135V  
AC 170V ~ 264V  
Battery 26.4V

OUTPUT : V1: 3.3V 6A  
V2: 5V 10A (Peak 15A)  
V3: 12V 1.5A (Peak 6A)  
V4: -12V 0.2A  
V5: 5Vs 0.72A

株式会社 ニプロン  
Nipron.Co.,Ltd.

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Model	NSP7-100-X2S																
Item	Line Regulation																
<p>V1 : 3.3V 6A</p> <p>at AC Input</p> <p>at Back up by Battery</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>3.244</td> <td>-1.70</td> </tr> <tr> <td>115</td> <td>3.240</td> <td>-1.82</td> </tr> <tr> <td>230</td> <td>3.271</td> <td>-0.88</td> </tr> <tr> <td>264</td> <td>3.268</td> <td>-0.97</td> </tr> </tbody> </table>	Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]	AC 85	3.244	-1.70	115	3.240	-1.82	230	3.271	-0.88	264	3.268	-0.97
Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]															
AC 85	3.244	-1.70															
115	3.240	-1.82															
230	3.271	-0.88															
264	3.268	-0.97															
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Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]															
DC 20	3.268	-0.97															
24	3.268	-0.97															
32	3.267	-1.00															

Model	NSP7-100-X2S
Item	Line Regulation

V2: 5V 10A  
at AC Input

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
85	5.050	1.00
115	5.050	1.00
230	5.052	1.04
264	5.052	1.04

at Back up by Battery

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
20	5.052	1.04
24	5.052	1.04
32	5.052	1.04

at AC Input

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
AC 85	5.050	1.00
115	5.050	1.00
230	5.052	1.04
264	5.052	1.04

at Back up by Battery

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
DC 20	5.052	1.04
24	5.052	1.04
32	5.052	1.04

Model	NSP7-100-X2S
Item	Line Regulation

V3 : 12V 1.5A  
at AC Input

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
AC 85	12.015	0.13
115	12.018	0.15
230	12.023	0.19
264	12.026	0.22

at Back up by Battery

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
DC 20	12.015	0.13
24	12.015	0.13
32	12.015	0.13

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
AC 85	12.015	0.13
115	12.018	0.15
230	12.023	0.19
264	12.026	0.22

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
DC 20	12.015	0.13
24	12.015	0.13
32	12.015	0.13

Model	NSP7-100-X2S
Item	Line Regulation

V4: -12V 0.2A  
at AC Input

at AC Input

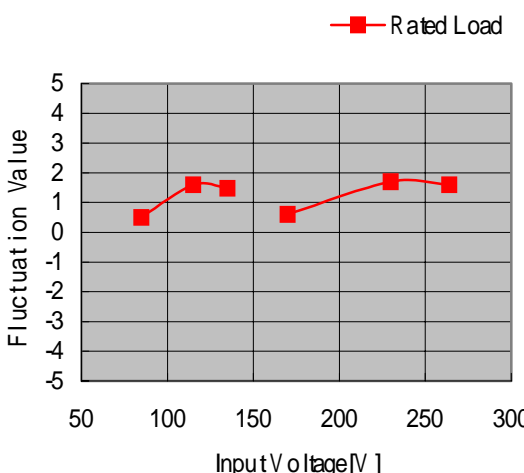
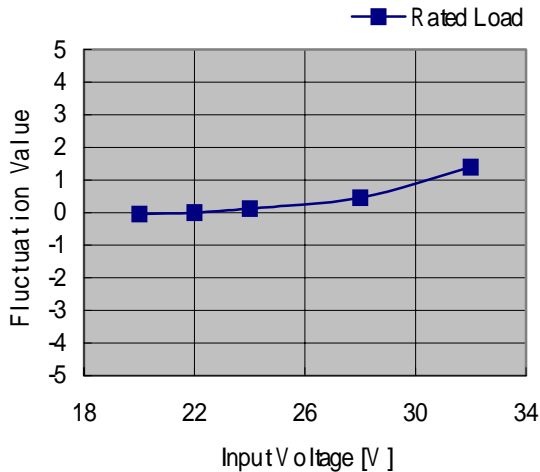
Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
AC 85	-11.941	-0.49
115	-11.941	-0.49
230	-11.943	-0.48
264	-11.943	-0.48

at Back up by Battery

at Back up by Battery

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
DC 20	-11.941	-0.49
24	-11.942	-0.48
32	-11.944	-0.47

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<p>V5 : 5Vs 0.72A at AC Input</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>5.025</td> <td>0.50</td> </tr> <tr> <td>115</td> <td>5.080</td> <td>1.60</td> </tr> <tr> <td>230</td> <td>5.085</td> <td>1.70</td> </tr> <tr> <td>264</td> <td>5.080</td> <td>1.60</td> </tr> </tbody> </table>	Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]	AC 85	5.025	0.50	115	5.080	1.60	230	5.085	1.70	264	5.080	1.60
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Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]															
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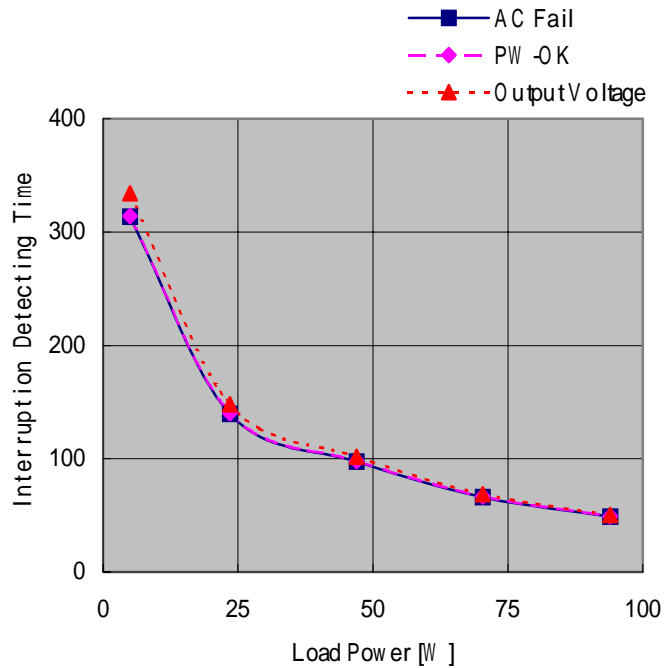
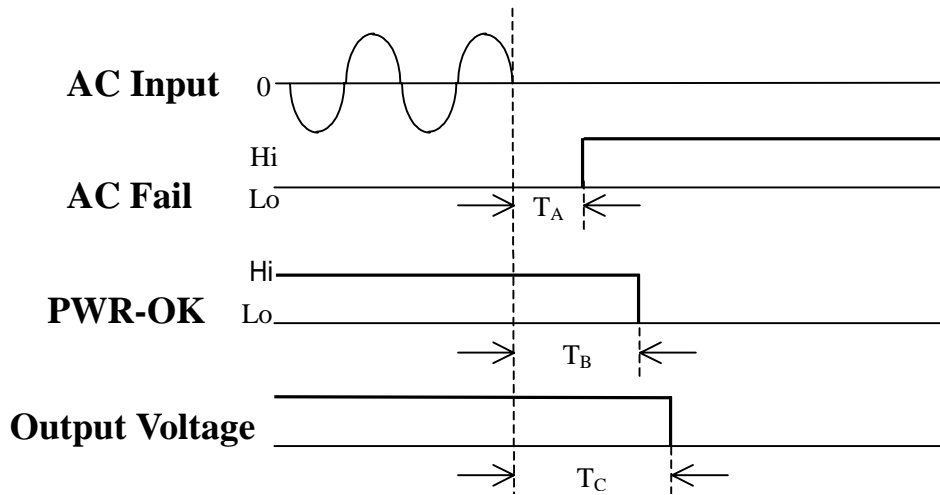
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Model	NSP7-100-X2S
Item	Instantaneous Interruption Compensation (by Load Power)

at AC Input (85V / 100V / 240V / 264V)  
AC Unit Only (without Non-Stop Unit)



Load Power [W]	Interruption Detecting Time (ms)		
	AC Fail $T_A$	PWR-OK $T_B$	DC Output $T_C$
5	313.58	314.12	334.28
23.5	139.72	140.26	148.10
47	97.51	98.05	101.92
70.4	66.18	66.71	68.84
94	48.91	49.44	50.53

Model	NSP7-100-X2S																																										
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47	3	5	0.75	0.1	0.36																																					
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94	6	10	1.5	0.2	0.72																																					

Model	NSP7-100-X2S							
Item	Ripple / Noise Voltage Test							
			CH1	3.3V	CH2	5V	CH3	12V
Temperature	Input voltage		ripple (mV)	spike (mV)	ripple (mV)	spike (mV)	ripple (mV)	spike (mV)
-5	AC 85V		35	90	20	70	40	90
	115V		30	100	20	80	30	90
	135V		35	100	20	85	30	95
	170V		30	90	20	70	30	90
	230V		30	95	20	75	30	90
	264V		35	95	20	75	35	95
25	AC 85V		30	50	25	50	40	70
	115V		30	50	25	50	40	70
	135V		35	50	30	50	40	75
	170V		30	50	30	50	40	75
	230V		30	50	30	50	40	75
	264V		30	50	30	50	40	75
55	AC 85V		40	50	30	50	50	70
	115V		30	50	20	50	45	70
	135V		30	50	30	50	45	70
	170V		30	50	25	50	50	80
	230V		30	60	30	50	40	70
	264V		35	60	30	50	40	70
Specification			50	100	50	100	120	200
Judgement			Good		Good		Good	
			CH4	-12V	CH5	5VS		
Temperature	Input voltage		ripple (mV)	spike (mV)	ripple (mV)	spike (mV)		
-5	AC 85V		10	80	45	150		
	115V		15	80	45	150		
	135V		10	80	50	140		
	170V		10	80	45	145		
	230V		10	75	45	140		
	264V		10	80	45	140		
25	AC 85V		15	50	40	100		
	115V		15	50	50	100		
	135V		15	50	50	100		
	170V		15	40	45	100		
	230V		15	50	45	100		
	264V		15	50	50	100		
55	AC 85V		10	40	50	130		
	115V		15	45	60	140		
	135V		15	45	60	140		
	170V		15	40	60	140		
	230V		15	45	60	140		
	264V		15	45	60	140		
Specification			120	200	70	150		
Judgement			Good		Good			

Model	NSP7-100-X2S
Item	Ripple / Noise Voltage Test

Temperature	Input voltage		CH1	3.3V	CH2	5V	CH3	12V
			ripple / spike (mV)	ripple / spike (mV)	ripple / spike (mV)	ripple / spike (mV)	ripple / spike (mV)	ripple / spike (mV)
-5	DC	20 V	30 / 50	50	30 / 50	50	40 / 70	70
		24 V	30 / 50	50	30 / 50	50	40 / 70	70
		32 V	30 / 50	50	30 / 50	50	40 / 70	70
25	DC	20 V	30 / 50	50	30 / 50	50	35 / 70	70
		24 V	30 / 50	50	30 / 50	50	45 / 70	70
		32 V	30 / 50	50	30 / 60	60	35 / 70	70
55	DC	20 V	30 / 60	60	30 / 50	50	30 / 70	70
		24 V	35 / 60	60	30 / 50	50	30 / 70	70
		32 V	35 / 60	60	30 / 50	50	30 / 70	70
Specification			50 / 100	100	50 / 100	100	120 / 200	200
Judgement			Good		Good		Good	

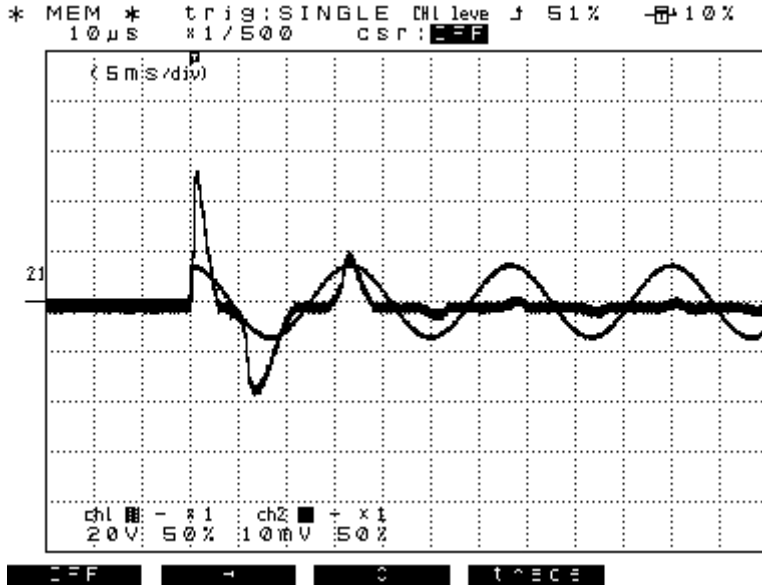
Temperature	Input voltage		CH4	-12V	CH5	5VS
			ripple / spike (mV)	ripple / spike (mV)	ripple / spike (mV)	ripple / spike (mV)
-5	DC	20 V	15 / 50	50	50 / 90	90
		24 V	15 / 50	50	50 / 90	90
		32 V	15 / 50	50	50 / 90	90
25	DC	20 V	15 / 50	50	50 / 90	90
		24 V	15 / 45	45	50 / 90	90
		32 V	15 / 50	50	50 / 100	100
55	DC	20 V	20 / 50	50	60 / 120	120
		24 V	20 / 50	50	60 / 120	120
		32 V	15 / 40	40	60 / 120	120
Specification			120 / 200	200	70 / 150	150
Judgement			Good		Good	

Model	NSP7-100-X2S					
Item	Over-Current Protection					
Temp.	Input voltage	CH1 +3.3V	CH2 +5V	CH3 +12V	CH4 -12V	CH4 +5VS
-5	AC 85V	8.4 A	19.5 A	13.50 A	0.92 A	2.10 A
	115V	8.4 A	19.5 A	13.50 A	0.92 A	2.10 A
	135V	8.4 A	19.5 A	13.50 A	0.92 A	2.10 A
	170V	8.3 A	20.0 A	14.00 A	0.94 A	2.20 A
	230V	8.3 A	20.0 A	14.00 A	0.90 A	2.20 A
	264V	8.3 A	20.0 A	14.00 A	0.90 A	2.10 A
	DC 20V	8.3 A	20.0 A	14.00 A	0.95 A	2.10 A
	24V	8.3 A	20.0 A	14.00 A	0.90 A	2.10 A
	32V	8.3 A	20.0 A	14.00 A	0.92 A	2.10 A
25	AC 85V	8.3 A	20.0 A	13.50 A	0.92 A	2.20 A
	115V	8.3 A	20.0 A	13.50 A	0.92 A	2.10 A
	135V	8.4 A	20.0 A	14.00 A	0.94 A	2.10 A
	170V	8.4 A	20.0 A	14.00 A	0.92 A	2.20 A
	230V	8.4 A	20.0 A	14.00 A	0.94 A	2.20 A
	264V	8.4 A	20.0 A	14.00 A	0.94 A	2.20 A
	DC 20V	8.4 A	20.0 A	14.00 A	0.90 A	2.20 A
	24V	8.4 A	20.5 A	13.50 A	0.90 A	2.20 A
	32V	8.4 A	20.5 A	13.50 A	0.88 A	2.10 A
55	AC 85V	8.1 A	20.0 A	13.50 A	0.80 A	2.10 A
	115V	8.1 A	20.0 A	13.50 A	0.80 A	2.00 A
	135V	8.2 A	19.5 A	13.50 A	0.80 A	2.00 A
	170V	8.2 A	19.5 A	14.10 A	0.80 A	2.10 A
	230V	8.2 A	19.5 A	14.10 A	0.78 A	2.00 A
	264V	8.2 A	19.6 A	14.00 A	0.80 A	2.00 A
	DC 20V	8.2 A	20.0 A	12.50 A	0.78 A	2.10 A
	24V	8.2 A	20.0 A	13.00 A	0.76 A	2.10 A
	32V	8.2 A	20.0 A	13.00 A	0.76 A	2.10 A
Specification	6.3A or more	16.5A or more	7A or more	0.4A or more	1A or more	
Judgement	Good	Good	Good	Good	Good	

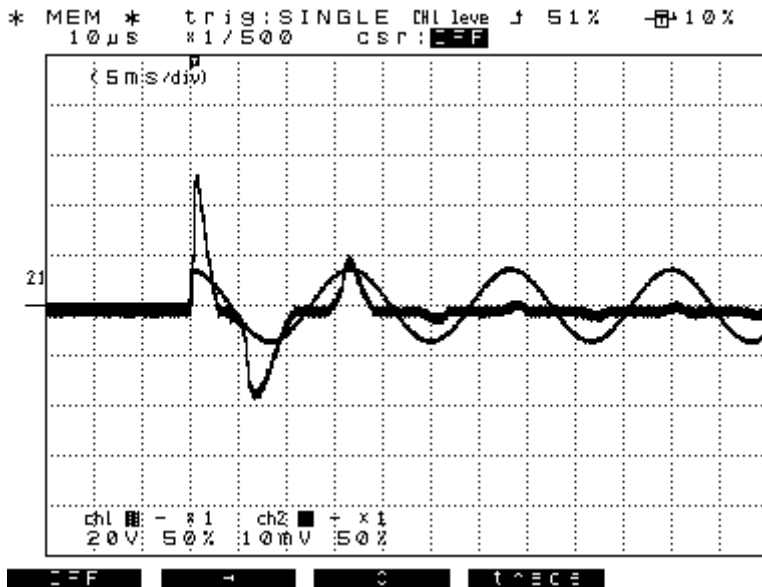
Model	NSP7-100-X2S																																																									
Item	Over-Voltage Protection																																																									
<table border="1"> <thead> <tr> <th>Temp.</th> <th>Input voltage</th> <th>CH1 +3.3V</th> <th>CH2 +5V</th> <th>CH3 +12V</th> </tr> </thead> <tbody> <tr> <td rowspan="3">-5</td> <td>AC 115V</td> <td>4.0 V</td> <td>6.7 V</td> <td>14.8 V</td> </tr> <tr> <td>AC 230V</td> <td>4.0 V</td> <td>6.7 V</td> <td>14.8 V</td> </tr> <tr> <td>DC 24V</td> <td>4.0 V</td> <td>6.7 V</td> <td>14.8 V</td> </tr> <tr> <td rowspan="3">25</td> <td>AC 115V</td> <td>4.0 V</td> <td>6.7 V</td> <td>14.7 V</td> </tr> <tr> <td>AC 230V</td> <td>4.0 V</td> <td>6.7 V</td> <td>14.7 V</td> </tr> <tr> <td>DC 24V</td> <td>4.0 V</td> <td>6.7 V</td> <td>14.7 V</td> </tr> <tr> <td rowspan="3">55</td> <td>AC 115V</td> <td>4.0 V</td> <td>6.7 V</td> <td>14.7 V</td> </tr> <tr> <td>AC 230V</td> <td>4.0 V</td> <td>6.7 V</td> <td>14.7 V</td> </tr> <tr> <td>DC 24V</td> <td>4.0 V</td> <td>6.7 V</td> <td>14.7 V</td> </tr> <tr> <td colspan="2">Specification</td> <td>3.7 ~ 4.3V</td> <td>6 ~ 7V</td> <td>14 ~ 15.6V</td> </tr> <tr> <td colspan="2">Judgement</td> <td>Good</td> <td>Good</td> <td>Good</td> </tr> </tbody> </table>					Temp.	Input voltage	CH1 +3.3V	CH2 +5V	CH3 +12V	-5	AC 115V	4.0 V	6.7 V	14.8 V	AC 230V	4.0 V	6.7 V	14.8 V	DC 24V	4.0 V	6.7 V	14.8 V	25	AC 115V	4.0 V	6.7 V	14.7 V	AC 230V	4.0 V	6.7 V	14.7 V	DC 24V	4.0 V	6.7 V	14.7 V	55	AC 115V	4.0 V	6.7 V	14.7 V	AC 230V	4.0 V	6.7 V	14.7 V	DC 24V	4.0 V	6.7 V	14.7 V	Specification		3.7 ~ 4.3V	6 ~ 7V	14 ~ 15.6V	Judgement		Good	Good	Good
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Judgement		Good	Good	Good																																																						

Model	NSP7-100-X2S
Item	Inrush Current

Inrush Current Wave



Wave No1	
CH1	Measuring Point : Input Voltage Range 200V/DIV
CH2	Measuring Point : Input Current Range 10A/DIV
Time Line	5ms/DIV
Conditions	Input : AC100V 60Hz Load : Rated Load
Note :	
Inrush Current Value : 26.8A	

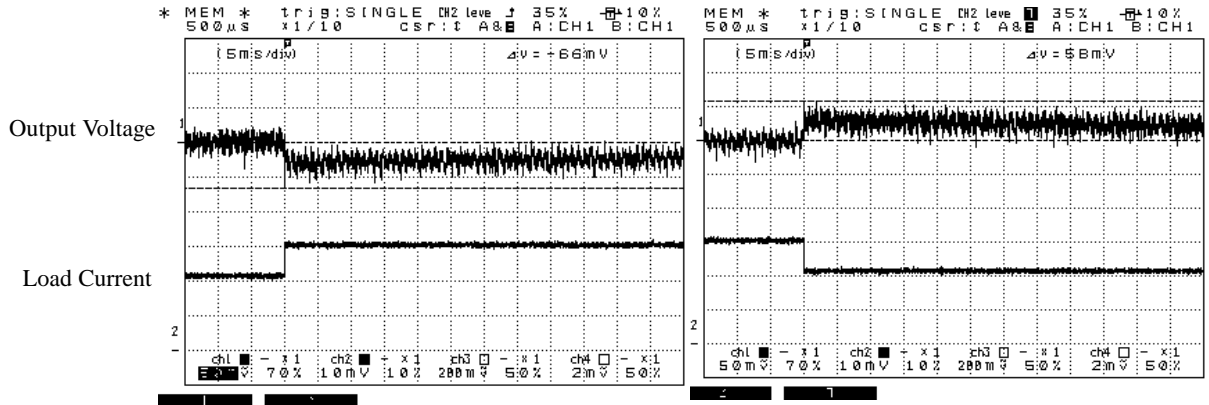


Wave No2	
CH1	Measuring Point : Input Voltage Range 500V/DIV
CH2	Measuring Point : Input Current Range 20A/DIV
Time Line	5ms/DIV
Conditions	Input : AC240V 60Hz Load : Rated Load
Note :	
Inrush Current Value : 47.2A	

Model	NSP7-100-X2S
Item	Dynamic Load Response

V1: +3.3V 6A

70% Load    100% Load

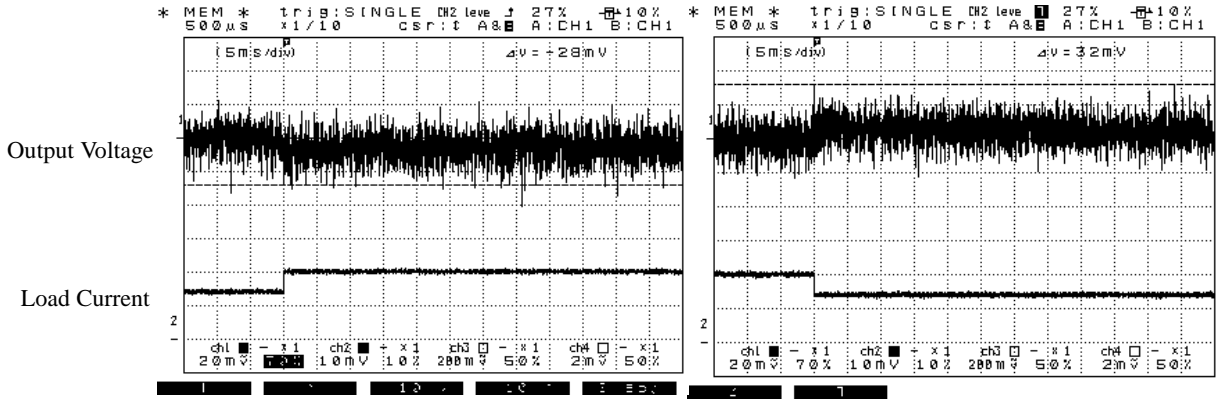


Sudden Fluctuation of Load	Fluctuation Value	ATX Specific Value	Judgement
70% Load    100% Load	- mV -66mV	± 165mV	Good
100% Load    70% Load	58mV - mV		Good

Model	NSP7-100-X2S
Item	Dynamic Load Response

V2: +5V 10A

70% Load    100% Load

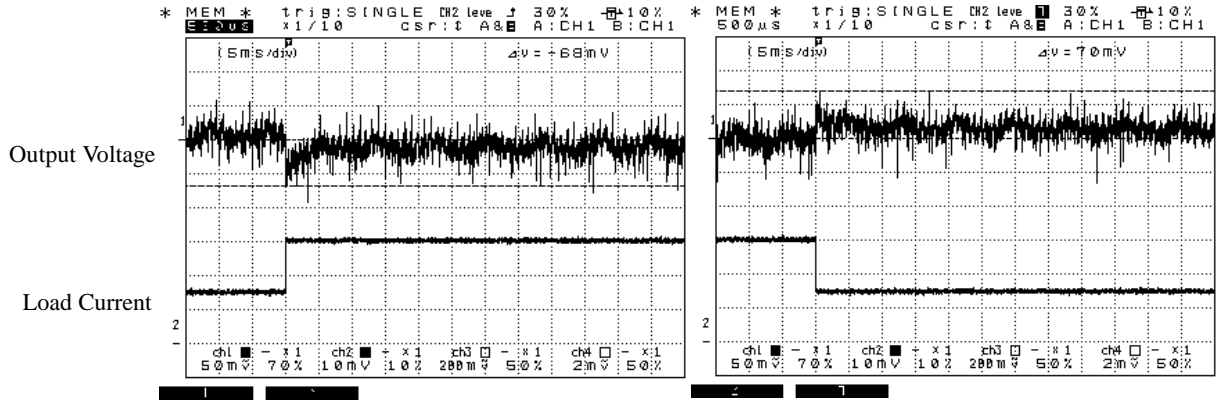


Sudden Fluctuation of Load	Fluctuation Value	ATX Specific Value	Judgement
70%Load    100% Load	-    mV -28mV	± 250mV	Good
100% Load    70% Load	32mV -    mV		Good

Model	NSP7-100-X2S
Item	Dynamic Load Response

V3: +12V 1.5A

50% Load      100% Load



Sudden Fluctuation of Load	Fluctuation Value	ATX Specific Value	Judgement
50%Load    100% Load	-    mV -68mV	± 600mV	Good
100% Load    50% Load	70mV -    mV		Good

Model	NSP7-100-X2S																																			
Item	12V Cross Regulation																																			
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12V Load Current	Fluctuation Value [%]																																			
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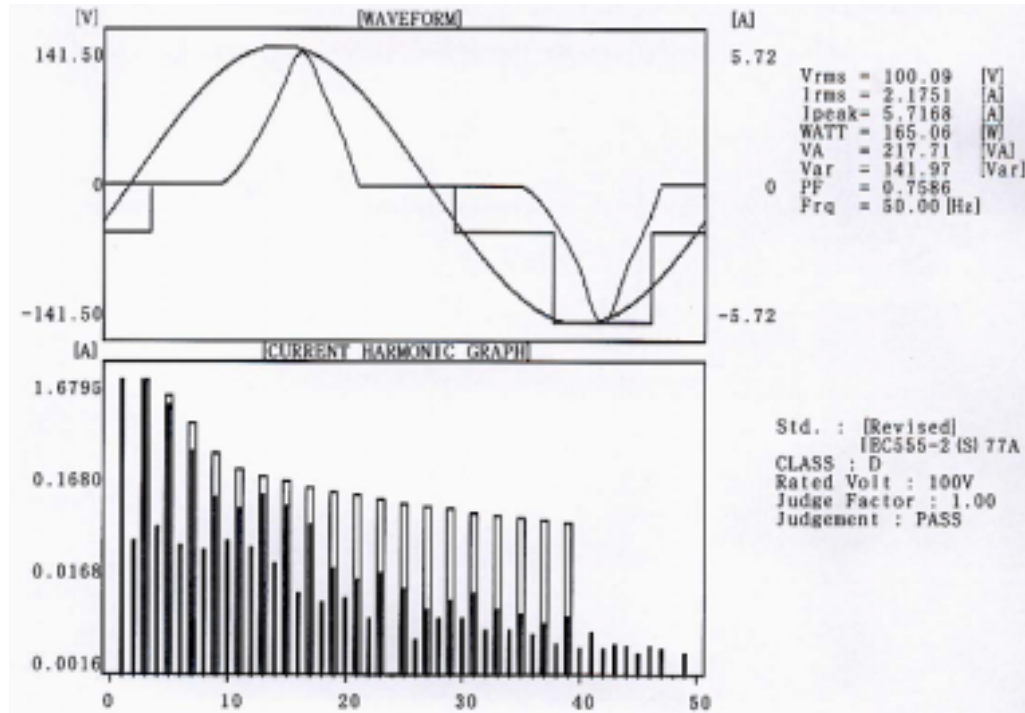
Model	NSP7-100-X2S			
Item	Ambient Temperature Drift			
<b>V1:3.3V 6A</b>				
at AC Input				
Output Voltage [V]				
Temperature ( )	Input Voltage AC85V	Input Voltage AC115V	Input Voltage AC230V	Input Voltage AC264V
-5	3.231	3.231	3.232	3.231
25	3.253	3.254	3.253	3.254
50	3.259	3.261	3.261	3.263
Fluctuation Value [%]				
Temperature ( )	Input Voltage AC85V	Input Voltage AC115V	Input Voltage AC230V	Input Voltage AC264V
-5	-2.09	-2.09	-2.06	-2.09
25	-1.42	-1.39	-1.42	-1.39
50	-1.24	-1.18	-1.18	-1.12
<b>V2:5V 10A</b>				
at AC Input				
Output Voltage [V]				
Temperature ( )	Input Voltage AC85V	Input Voltage AC115V	Input Voltage AC230V	Input Voltage AC264V
-5	5.137	5.138	5.134	5.136
25	5.134	5.134	5.134	5.134
50	5.140	5.141	5.142	5.142
Fluctuation Value [%]				
Temperature ( )	Input Voltage AC85V	Input Voltage AC115V	Input Voltage AC230V	Input Voltage AC264V
-5	2.74	2.76	2.68	2.72
25	2.68	2.68	2.68	2.68
50	2.80	2.82	2.82	2.84

Model	NSP7-100-X2S			
Item	Ambient Temperature Drift			
<b>V3:12V 1.5A</b>				
at AC Input				
Output Voltage [V]				
Temperature ( )	Input Voltage AC85V	Input Voltage AC115V	Input Voltage AC230V	Input Voltage AC264V
-5	11.981	11.986	11.983	11.987
25	12.002	12.003	12.001	12.002
50	12.019	12.021	12.021	12.022
Fluctuation Value [%]				
Temperature ( )	Input Voltage AC85V	Input Voltage AC115V	Input Voltage AC230V	Input Voltage AC264V
-5	-0.16	-0.12	-0.14	-0.11
25	0.02	0.03	0.01	0.02
50	0.16	0.18	0.18	0.18
<b>V4:-12V 0.2A</b>				
at AC Input				
Output Voltage [V]				
Temperature ( )	Input Voltage AC85V	Input Voltage AC115V	Input Voltage AC230V	Input Voltage AC264V
-5	-12.025	-12.028	-12.024	-12.027
25	-12.027	-12.027	-12.029	-12.030
50	-12.040	-12.041	-12.042	-12.042
Fluctuation Value [%]				
Temperature ( )	Input Voltage AC85V	Input Voltage AC115V	Input Voltage AC230V	Input Voltage AC264V
-5	0.21	0.23	0.20	0.22
25	0.22	0.22	0.24	0.25
50	0.33	0.34	0.35	0.35

Model	NSP7-100-X2S					
Item	Ambient Temperature Drift					
<b>V5:5Vs 0.72A</b>		at AC Input				
		Output Voltage [V]				
		Temperature ( )	Input Voltage AC85V	Input Voltage AC115V	Input Voltage AC230V	Input Voltage AC264V
		-5	5.016	5.038	5.034	5.042
		25	5.028	5.049	5.047	5.057
50	5.004	5.023	5.024	5.034		
		Fluctuation Value [%]				
Temperature ( )	Input Voltage AC85V	Input Voltage AC115V	Input Voltage AC230V	Input Voltage AC264V		
-5	0.32	0.76	0.68	0.84		
25	0.56	0.98	0.94	1.14		
50	0.08	0.46	0.48	0.68		

Model	NSP7-100-X2S
Item	Harmonic Current

Measuring Instrument : MP701(Keisoku Giken)

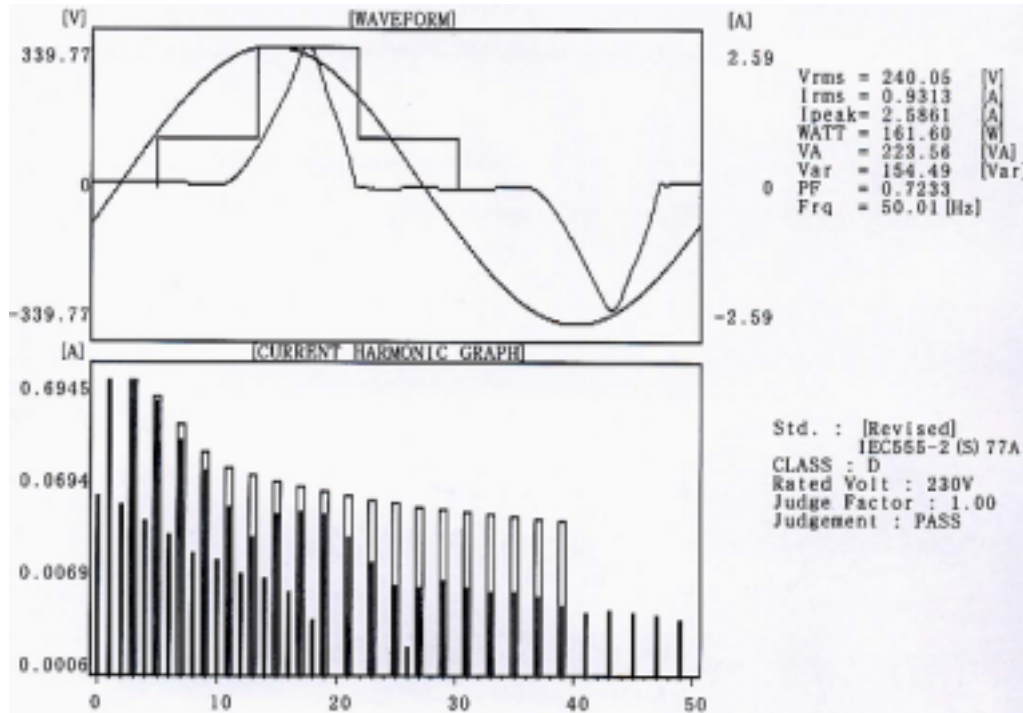


[CURRENT HARMONIC DATA]

No	(A)	No	(A)	No	(A)	No	(A)
00	0.0016	13	0.0748	26	0.0025	39	0.0042
01	1.6795	14	0.0147	27	0.0051	40	0.0020
02	0.0257	15	0.0583	28	0.0041	41	0.0029
03	1.2148	16	0.0072	29	0.0063	42	0.0020
04	0.0348	17	0.0380	30	0.0040	43	0.0022
05	0.6056	18	0.0058	31	0.0074	44	0.0021
06	0.0232	19	0.0133	32	0.0031	45	0.0018
07	0.2062	20	0.0065	33	0.0050	46	0.0021
08	0.0210	21	0.0102	34	0.0031	47	0.0020
09	0.0722	22	0.0040	35	0.0044	48	0.0015
10	0.0252	23	0.0122	36	0.0028	49	0.0018
11	0.0545	24	0.0010	37	0.0035		
12	0.0213	25	0.0082	38	0.0022		

Model	NSP7-100-X2S
Item	Harmonic Current

Measuring Instrument : MP701(Keisoku Giken)



[CURRENT HARMONIC DATA]

No	(A)	No	(A)	No	(A)	No	(A)
00	0.0318	13	0.0117	26	0.0009	39	0.0023
01	0.6945	14	0.0045	27	0.0035	40	0.0002
02	0.0250	15	0.0198	28	0.0000	41	0.0020
03	0.5291	16	0.0031	29	0.0043	42	0.0000
04	0.0173	17	0.0215	30	0.0004	43	0.0021
05	0.2916	18	0.0017	31	0.0036	44	0.0000
06	0.0122	19	0.0199	32	0.0007	45	0.0020
07	0.1164	20	0.0007	33	0.0033	46	0.0000
08	0.0082	21	0.0120	34	0.0007	47	0.0018
09	0.0557	22	0.0007	35	0.0031	48	0.0000
10	0.0068	23	0.0066	36	0.0000	49	0.0017
11	0.0234	24	0.0007	37	0.0029		
12	0.0051	25	0.0038	38	0.0004		

Model	NSP7-100-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	0.43	0.37
240V	0.77	0.76

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

Model	NSP7-100-X2S
Item	Line Noise Tolerance

Temperature	Room Temperature
Input	AC115V,60Hz
Load	Rated Load
Noise Impressed Voltage	± 2000V
Repeat Cycle	10 ~ 35ms
Pulse Width	100,800ns

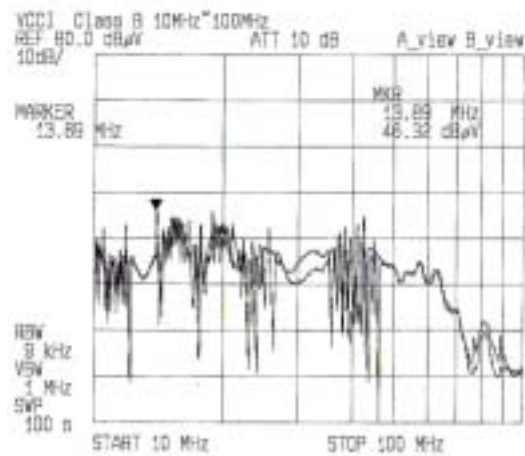
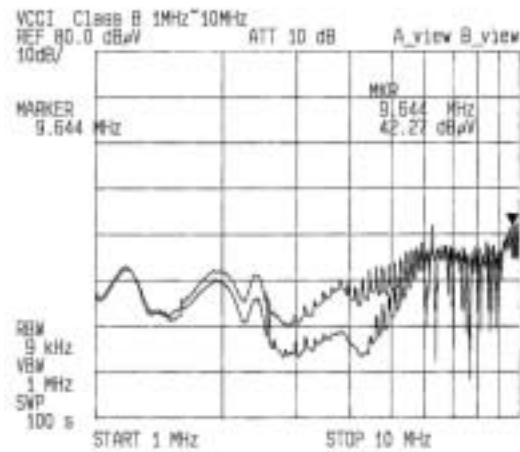
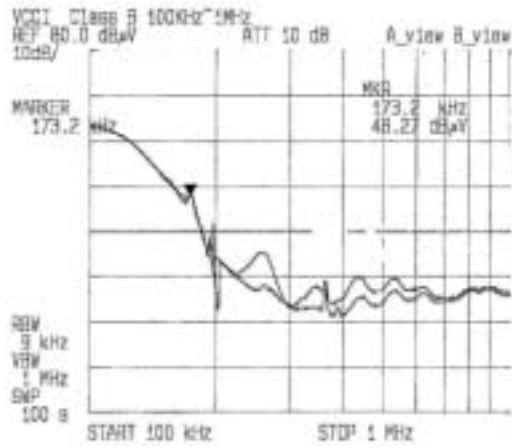
Normal	Pulse Impressed Mode			
	100ns		800ns	
	Polarity +	Polarity -	Polarity +	Polarity -
Common R Phase	Pulse Impressed Mode			
	100ns		800ns	
	Polarity +	Polarity -	Polarity +	Polarity -
Common S Phase	Pulse Impressed Mode			
	100ns		800ns	
	Polarity +	Polarity -	Polarity +	Polarity -

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

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

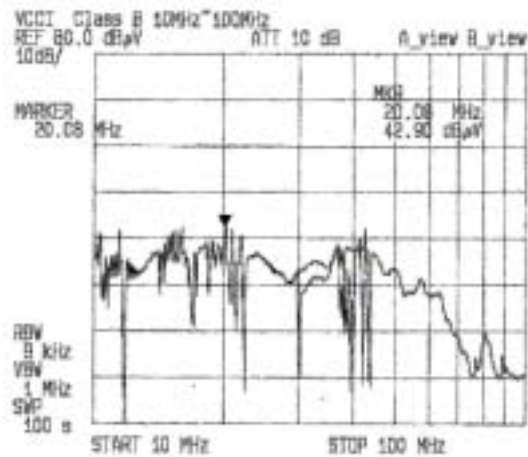
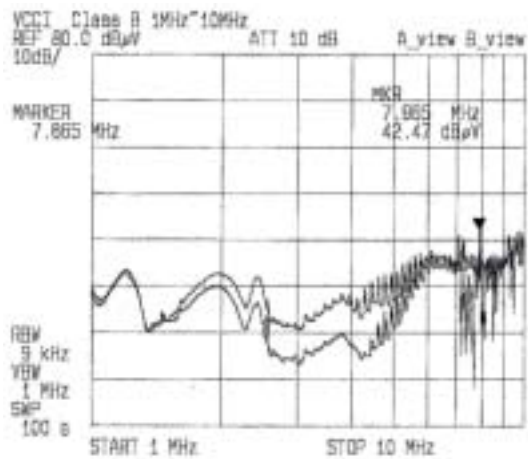
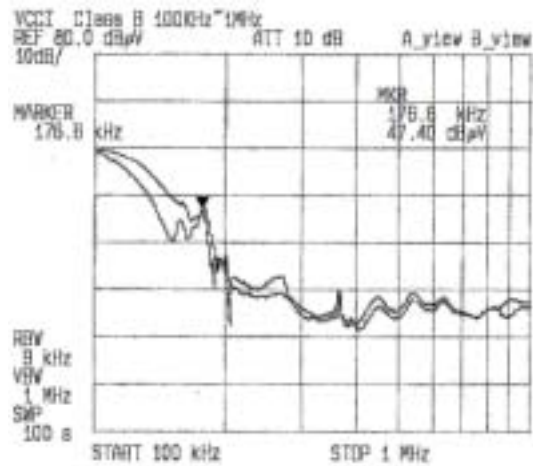
Model	NSP7-100-X2S
Item	Conduction Emission

Temperature Room Temperature  
 Input AC115V  
 Load Rated Load  
 Mesearing Point L-FG  
 Measuring Instrument R3261A (Advantest)



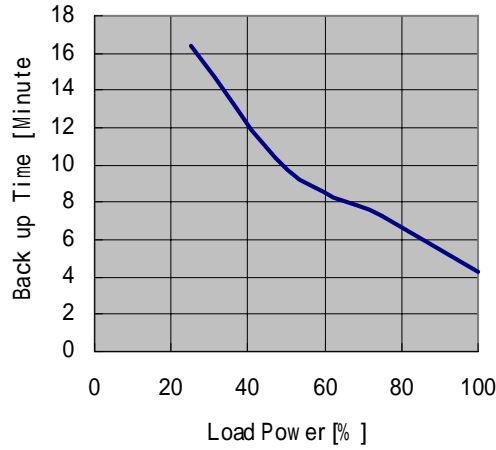
Model	NSP7-100-X2S
Item	Conduction Emission

Temperature Room Temperature  
 Input AC230V  
 Load Rated Load  
 Measuring Point L-FG, N-FG  
 Measuring Instrument R3261A (Advantest)



Model	NSP7-100-X2S
Item	Battery Discharge

Back up Time

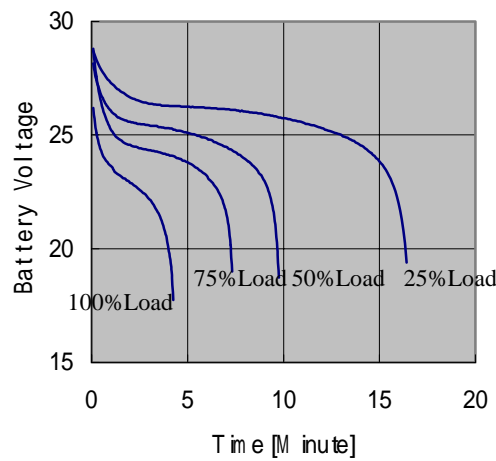


At Room Temperature (25 )

Load Power [%]	Back up Time [Minute]
25	16.4
50	9.8
75	7.3
100	4.3

100%Load = 94W

Battery Voltage



Battery : PS2668(Ni-Cd Battery)