



Test Data

NSP2-250-D2S

(AC85~264V And DC24V Battery Input)

NON-STOP POWER SUPPLY

Approved by : *Osami Nakamura*

Prepared by : *Naoki Yamamoto*

INPUT	:	AC 85V ~ 264V	
		Battery 24V	
OUTPUT	:	V1: 5V 20A	(Peak 23A)
		V2: 3.3V 10A	
		V3: 12V 7A	(Peak 12A)
		V4: -5V 0.5A	
		V5: -12V 0.5A	
		V6: 5Vs 1A	

株式会社 ニプロン
Nipron.Co.,Ltd.

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Model	NSP2-250-D2S
Item	Line Regulation

V1 : 5V 20A
at AC Input

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
85	4.992	-0.16
100	4.993	-0.14
240	4.992	-0.16
264	4.992	-0.16

at Back up by Battery

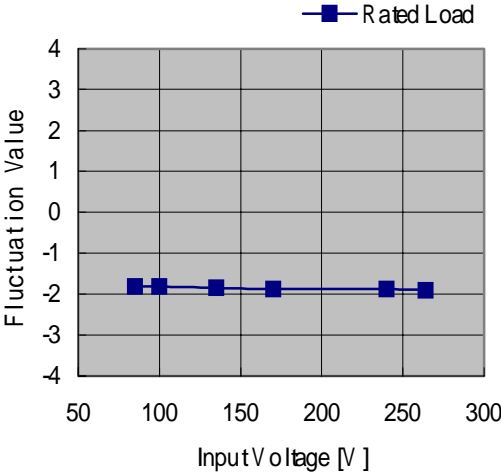
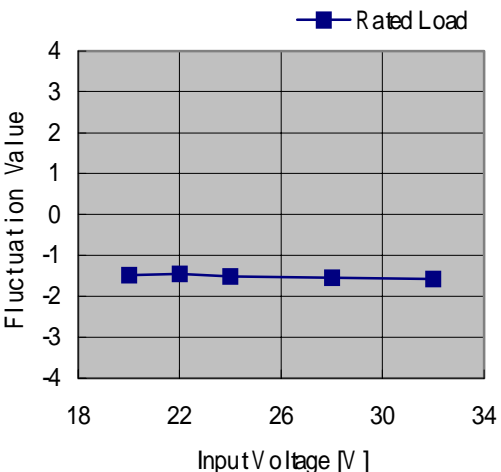
Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
20	4.954	-0.92
24	4.965	-0.70
32	4.977	-0.46

at AC Input

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
AC 85	4.992	-0.16
100	4.993	-0.14
240	4.992	-0.16
264	4.992	-0.16

at Back up by Battery

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
DC 20	4.954	-0.92
24	4.965	-0.70
32	4.977	-0.46

Model	NSP2-250-D2S															
Item	Line Regulation															
<p>V2: 3.3V 10A</p> <p>at AC Input</p>  <table border="1" data-bbox="933 414 1412 649"> <caption>at AC Input</caption> <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>3.240</td> <td>-1.82</td> </tr> <tr> <td>100</td> <td>3.240</td> <td>-1.82</td> </tr> <tr> <td>240</td> <td>3.238</td> <td>-1.88</td> </tr> <tr> <td>264</td> <td>3.237</td> <td>-1.91</td> </tr> </tbody> </table>		Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]	AC 85	3.240	-1.82	100	3.240	-1.82	240	3.238	-1.88	264	3.237	-1.91
Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]														
AC 85	3.240	-1.82														
100	3.240	-1.82														
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Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]														
DC 20	3.251	-1.48														
24	3.250	-1.52														
32	3.248	-1.58														

Model	NSP2-250-D2S
Item	Line Regulation

V3: 12V 7A
at AC Input

Input Voltage [V]	Fluctuation Value
85	0.19
100	0.18
240	0.17
264	0.17

at Back up by Battery

Input Voltage [V]	Fluctuation Value
20	0.13
24	0.18
32	0.18

at AC Input

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
AC 85	12.023	0.19
100	12.022	0.18
240	12.020	0.17
264	12.020	0.17

at Back up by Battery

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
DC 20	12.016	0.13
24	12.021	0.18
32	12.022	0.18

Model	NSP2-250-D2S
Item	Line Regulation

V4: -5V 0.5A
at AC Input

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
85	-4.983	-1.24
100	-4.983	-1.24
240	-4.983	-1.24
264	-4.989	-1.22

at Back up by Battery

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
20	-4.937	-1.26
24	-4.937	-1.26
32	-4.938	-1.24

at AC Input

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
AC 85	-4.983	-1.24
100	-4.983	-1.24
240	-4.983	-1.24
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at Back up by Battery

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
DC 20	-4.937	-1.26
24	-4.937	-1.26
32	-4.938	-1.24

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<p>V5: -12V 0.5A</p> <p>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>-12.077</td> <td>0.64</td> </tr> <tr> <td>100</td> <td>-12.079</td> <td>0.66</td> </tr> <tr> <td>240</td> <td>-12.081</td> <td>0.67</td> </tr> <tr> <td>264</td> <td>-12.082</td> <td>0.68</td> </tr> </tbody> </table>	Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]	AC 85	-12.077	0.64	100	-12.079	0.66	240	-12.081	0.67	264	-12.082	0.68
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32	-12.080	0.67															

Model	NSP2-250-D2S
Item	Line Regulation

V6:5Vs 1A
at AC Input

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
85	4.953	-0.94
100	4.953	-0.94
140	4.952	-0.96
170	4.952	-0.96
240	4.951	-0.98
264	4.951	-0.98

at Back up by Battery

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
20	4.943	-1.14
24	4.943	-1.14
32	4.943	-1.14

at AC Input

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
AC 85	4.953	-0.94
100	4.953	-0.94
240	4.952	-0.96
264	4.951	-0.98

at Back up by Battery

Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]
DC 20	4.943	-1.14
24	4.943	-1.14
32	4.943	-1.14

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Item	Input Current (by Load Power)																																			
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Model	NSP2-250-D2S																																		
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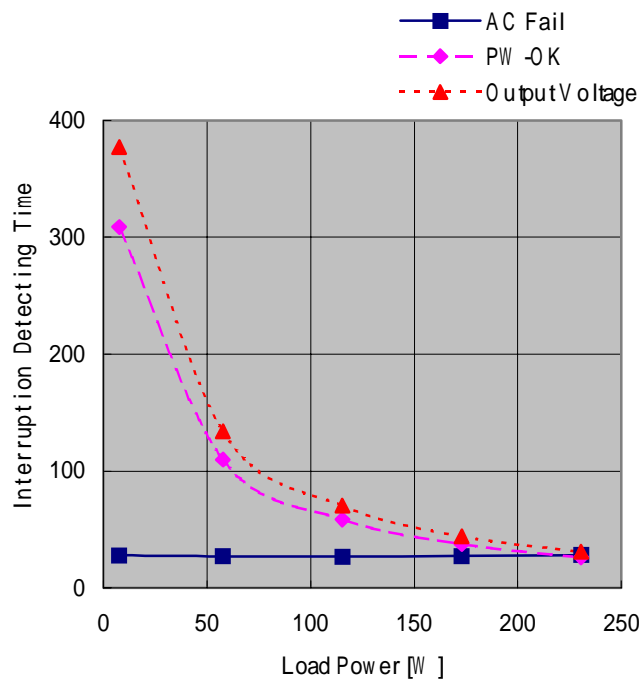
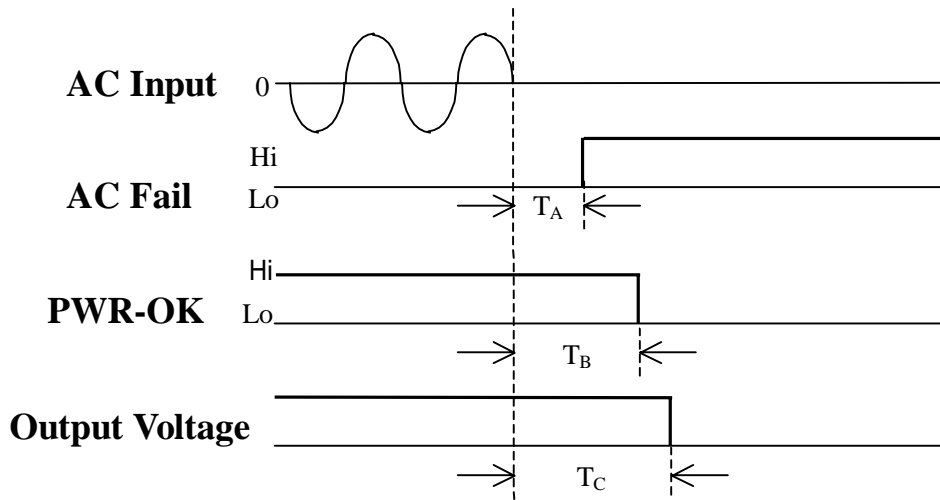
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130.5	99.91	99.99	98.23	96.98																											

Model	NSP2-250-D2S
Item	Instantaneous Interruption Compensation (by Load Power)

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



Load Power [W]	Interruption Detecting Time (ms)		
	AC Fail T_A	PWR-OK T_B	DC Output T_C
7.5	27.90	308.7	377.20
57.6	27.24	109.76	133.82
115.3	26.92	58.58	70.40
172.9	27.46	37.42	44.20
230.5	28.26	26.26	31.04

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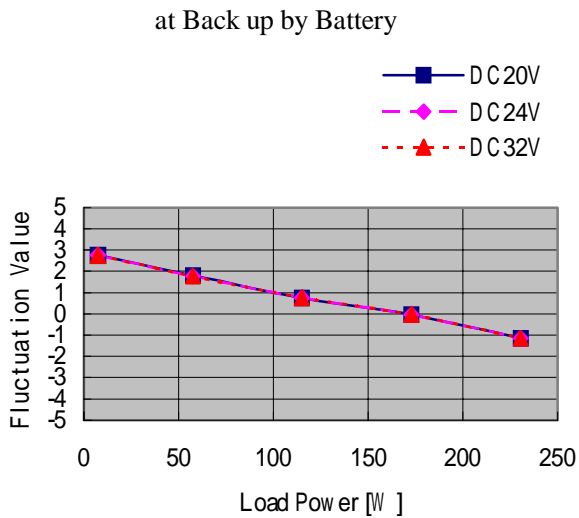
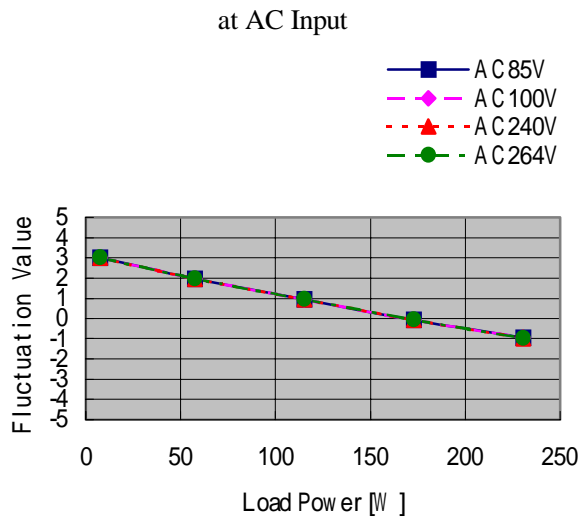
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Model	NSP2-250-D2S
Item	Load Regulation
V5: -12V 0.5A	
<p style="text-align: center;">at AC Input</p> <p style="text-align: center;">at Back up by Battery</p>	
at AC Input	
Load Power [W]	Fluctuation Value [%]
	Input Voltage AC85V Input Voltage AC100V Input Voltage AC240V Input Voltage AC264V
7.5	0.29 0.28 0.28 0.28
57.6	0.37 0.36 0.36 0.36
115.3	0.47 0.47 0.47 0.47
172.9	0.58 0.58 0.57 0.57
230.5	0.64 0.66 0.67 0.68
at Load Condition	
Load Power [W]	Load Current [A]
	5V 3.3V 12V -5V -12V 5Vs
7.5	1.5 0 0 0 0 0
57.6	5 2.5 1.75 0.125 0.125 0.25
115.3	10 5 3.5 0.25 0.25 0.5
172.9	15 7.5 5.25 0.375 0.375 0.75
230.5	20 10 7 0.5 0.5 1
at Back up by Battery	
Load Power [W]	Fluctuation Value [%]
	Input Voltage DC20V Input Voltage DC24V Input Voltage DC32V
7.5	0.28 0.28 0.28
57.6	0.34 0.34 0.34
115.3	0.46 0.46 0.46
172.9	0.54 0.55 0.56
230.5	0.60 0.65 0.67
at Load Condition	
Load Power [W]	Load Current [A]
	5V 3.3V 12V -5V -12V 5Vs
7.5	1.5 0 0 0 0 0
57.6	5 2.5 1.75 0.125 0.125 0.25
115.3	10 5 3.5 0.25 0.25 0.5
172.9	15 7.5 5.25 0.375 0.375 0.75
230.5	20 10 7 0.5 0.5 1

Model	NSP2-250-D2S
Item	Load Regulation

V6:5Vs 1A



at AC Input

Load Power [W]	Fluctuation Value [%]			
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
7.5	3.00	3.00	3.00	3.00
57.6	1.98	1.98	1.98	1.98
115.3	0.94	0.94	0.94	0.94
172.9	-0.06	-0.06	-0.06	-0.06
230.5	-0.94	-0.94	-0.96	-0.98

at Load Condition

Load Power [W]	Load Current [A]					
	5V	3.3V	12V	-5V	-12V	5Vs
5	1.5	0	0	0	0	0
50	5	2.5	1.75	0.125	0.125	0.25
100	10	5	3.5	0.25	0.25	0.5
150	15	7.5	5.25	0.375	0.375	0.75
200	20	10	7	0.5	0.5	1

at Back up by Battery

Load Power [W]	Fluctuation Value [%]		
	Input Voltage DC20V	Input Voltage DC24V	Input Voltage DC32V
5	2.76	2.76	2.76
50	1.80	1.78	1.78
100	0.74	0.76	0.76
150	-0.04	-0.04	-0.02
200	-1.14	-1.14	-1.14

at Load Condition

Load Power [W]	Load Current [A]					
	5V	3.3V	12V	-5V	-12V	5Vs
5	1.5	0	0	0	0	0
50	5	2.5	1.75	0.125	0.125	0.25
100	10	5	3.5	0.25	0.25	0.5
150	15	7.5	5.25	0.375	0.375	0.75
200	20	10	7	0.5	0.5	1

Model	NSP2-250-D2S							
Item	Ripple / Noise Voltage Test							
Temperature	Input Voltage	V1 Ripple / Noise (mV)	5V Noise (mV)	V2 Ripple / Noise (mV)	3.3V Noise (mV)	V3 Ripple / Noise (mV)	12V Noise (mV)	
-5	AC 85 V	15	35	25	45	20	55	
	100 V	15	40	25	45	15	45	
	240 V	15	30	25	35	15	30	
	264 V	15	30	25	35	15	35	
	DC 20 V	20	30	25	30	20	30	
	24 V	15	30	25	30	15	25	
25	32 V	15	25	25	30	10	35	
	AC 85 V	10	50	20	40	20	45	
	100 V	10	40	15	40	20	45	
	240 V	10	25	20	35	15	40	
	264 V	10	20	15	30	10	45	
	DC 20 V	15	25	15	25	10	25	
50	24 V	10	20	15	25	15	30	
	32 V	10	20	15	30	15	45	
	AC 85 V	10	45	15	50	15	50	
	100 V	10	35	10	35	10	55	
	240 V	10	35	10	30	10	55	
	264 V	10	30	10	30	10	60	
Specification		50	100	50	100	100	200	
Judgement		Good		Good		Good		
Temperature	Input Voltage	V4 Ripple / Noise (mV)	-5V Noise (mV)	V5 Ripple / Noise (mV)	-12V Noise (mV)	V6 Ripple / Noise (mV)	5Vs Noise (mV)	
-5	AC 85 V	5	40	5	40	20	80	
	100 V	5	25	5	30	20	65	
	240 V	5	25	5	25	20	45	
	264 V	5	25	5	25	20	35	
	DC 20 V	10	25	10	20	20	35	
	24 V	5	20	5	15	20	30	
25	32 V	5	20	5	20	15	25	
	AC 85 V	10	40	10	40	20	70	
	100 V	10	40	5	35	20	70	
	240 V	10	20	5	20	15	45	
	264 V	10	25	10	25	20	40	
	DC 20 V	10	25	5	20	20	30	
50	24 V	5	20	5	20	15	30	
	32 V	5	20	5	20	10	20	
	AC 85 V	5	40	5	40	15	70	
	100 V	10	35	10	35	15	65	
	240 V	5	35	5	40	15	60	
	264 V	5	30	5	35	15	55	
Specification		50	100	100	200	50	100	
Judgement		Good		Good		Good		

Model	NSP2-250-D2S
Item	Over-Current Protection

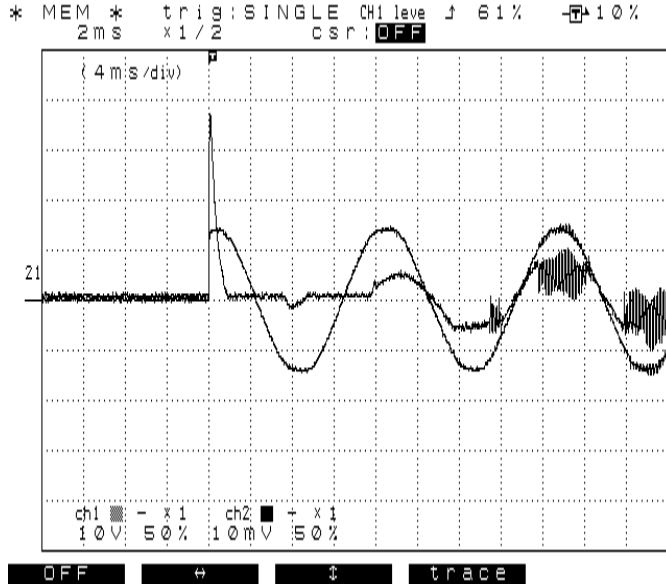
	Input Voltage	V1 5V	V2 3.3V	V3 12V
0	AC 85 V	27.0 A	17.2 A	14.8 A
	100 V	27.0 A	17.2 A	14.8 A
	240 V	27.0 A	17.2 A	14.8 A
	264 V	27.0 A	17.2 A	14.8 A
	DC 20 V	27.0 A	17.6 A	14.8 A
	24 V	27.0 A	17.2 A	14.8 A
25	32 V	27.2 A	17.2 A	14.8 A
	AC 85 V	26.4 A	16.2 A	15.0 A
	100 V	26.6 A	16.2 A	15.0 A
	240 V	26.6 A	16.0 A	14.8 A
	264 V	26.6 A	16.2 A	14.8 A
	DC 20 V	26.2 A	16.0 A	15.0 A
50	24 V	26.2 A	16.0 A	15.0 A
	32 V	26.2 A	16.0 A	15.0 A
	AC 85 V	25.0 A	16.5 A	14.8 A
	100 V	25.2 A	16.0 A	14.8 A
	240 V	25.0 A	16.5 A	14.8 A
	264 V	25.0 A	16.5 A	14.8 A
	DC 20 V	25.0 A	15.0 A	14.8 A
	24 V	25.0 A	14.5 A	14.8 A
	32 V	24.8 A	14.5 A	14.8 A
Specification		23A or More	13A or More	13A or More
Judgement		Good	Good	Good

Model	NSP2-250-D2S
Item	Over-Voltage Protection

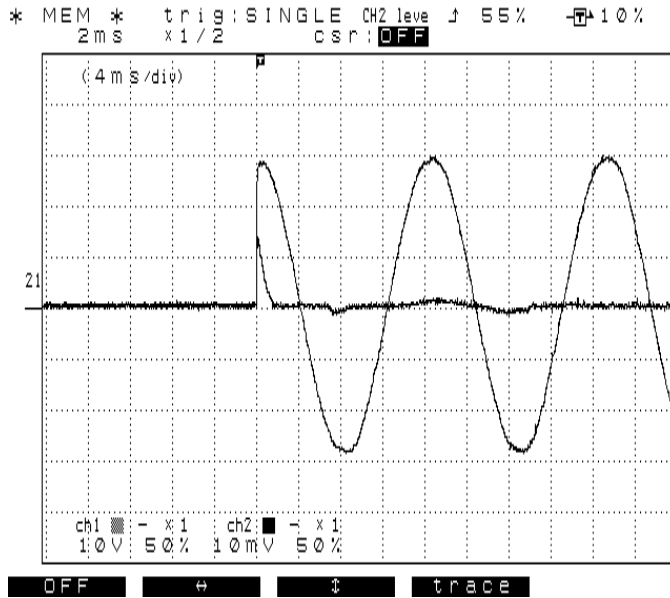
Temperature	Input Voltage	V1:5V	V2:3.3V	V3:12V
0	AC 100V	6.7V	4.2V	14.9V
	DC 24V	6.7V	4.2V	14.9V
25	AC 100V	6.6V	4.1V	14.8V
	DC 24V	6.6V	4.1V	14.8V
50	AC 100V	6.5V	4.0V	14.8V
	DC 24V	6.5V	4.0V	14.8V
Specification		6.0 ~ 7.0V	3.8 ~ 4.3V	14.0 ~ 15.6V
Judgement		Good	Good	Good

Model	NSP2-250-D2S
Item	Inrush Current

Inrush Current Wave



Wave No.1	
CH1	Measuring Point : Input Voltage Range 100V/DIV
CH2	Measuring Point : Input Current Range 10A/DIV
Time Line	4ms / DIV
Conditions	Input : AC100V 60Hz Load : Rated Load Temperature : 25
Note :	
Inrush Current Value : 34.8A	

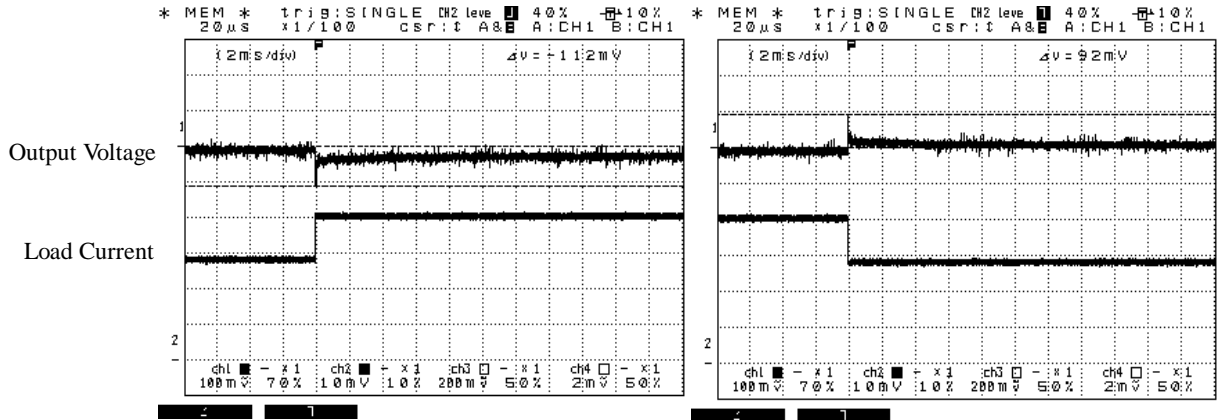


Wave No.2	
CH1	Measuring Point : Input Voltage Range 100V/DIV
CH2	Measuring Point : Input Current Range 50A/DIV
Time Line	4ms / DIV
Conditions	Input : AC200V 60Hz Load : Rated Load Temperature : 25
Note :	
Inrush Current Value : 70.0A	

Model	NSP2-250-D2S
Item	Dynamic Load Response

V1 : +5V 20A

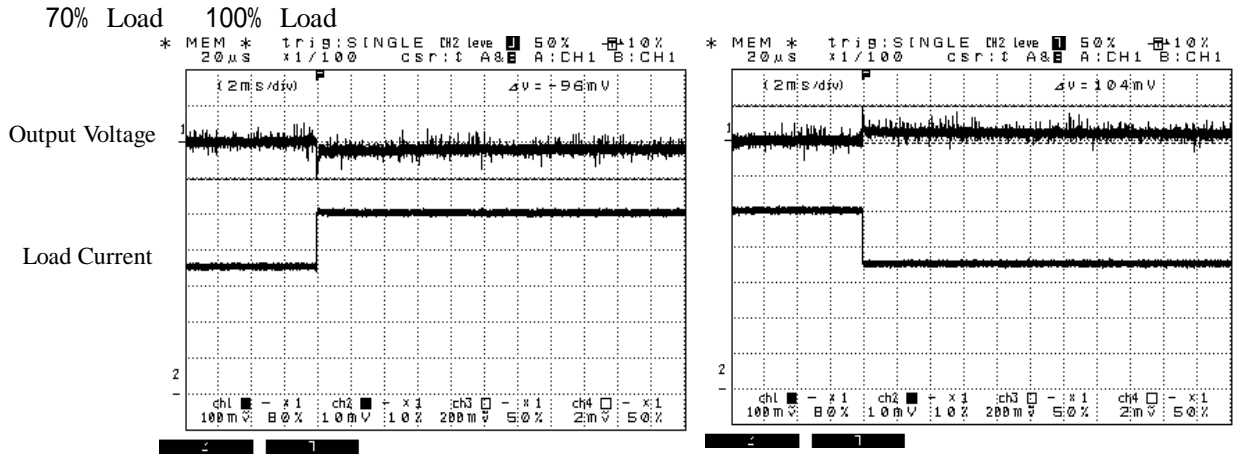
70% Load 100% Load



Sudden Fluctuation of Load	Fluctuation Value	ATX Specific Value	Judgement
70% Load 100% Load	- mV -112mV	± 250mV	Good
100% Load 70% Load	92mV - mV		Good

Model	NSP2-250-D2S
Item	Dynamic Load Response

V2: +3.3V 10A

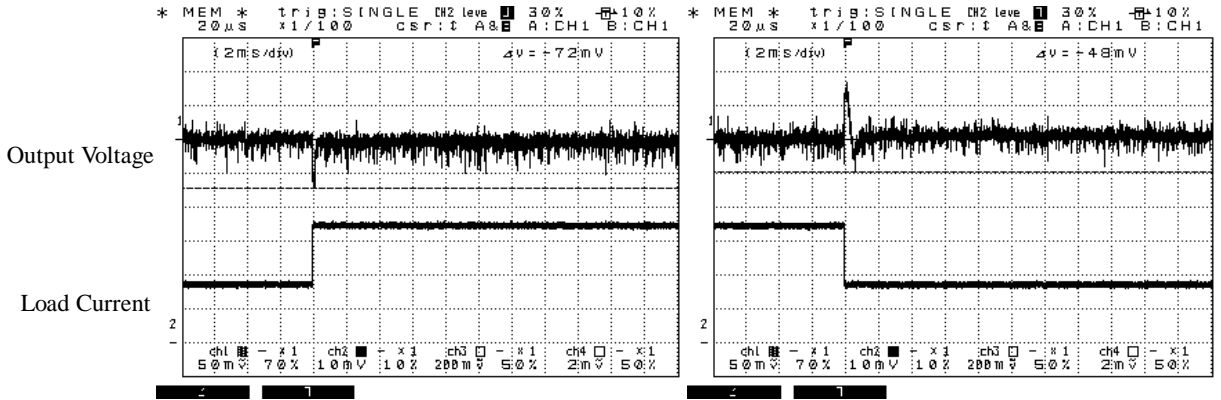


Sudden Fluctuation of Load	Fluctuation Value	ATX Specific Value	Judgement
70%Load 100% Load	- mV -96mV	± 165mV	Good
100% Load 70% Load	104mV - mV		Good

Model	NSP2-250-D2S
Item	Dynamic Load Response

V3: +12V 7A

50% Load 100% Load



Sudden Fluctuation of Load	Fluctuation Value	ATX Specific Value	Judgement
50%Load 100% Load	- mV -72mV	± 600mV	Good
100% Load 50% Load	84mV -48mV		Good

Model	NSP2-250-D2S
Item	12V Cross Regulation

The graph plots Fluctuation Value (Y-axis, -4 to 4) against 12V Load Current [A] (X-axis, 0 to 8). Five data series are shown for 5V load currents: 1.5A (blue squares), 5A (magenta diamonds), 10A (red triangles), 15A (green circles), and 20A (blue asterisks). All series show a fluctuation value very close to 0 across the entire load current range.

12V Load Current	12V Voltage Value [V]				
	5V 1.5A	5V 5A	5V 10A	5V 15A	5V 20A
0A	12.051	12.044	12.038	12.029	12.021
2A	12.045	12.038	12.033	12.026	12.022
3.5A	12.041	12.034	12.028	12.021	12.024
5A	12.041	12.033	12.030	12.025	12.026
7A	12.046	12.038	12.033	12.027	12.020

12V Load Current	Fluctuation Value [%]				
	5V 1.5A	5V 5A	5V 10A	5V 15A	5V 20A
0A	0.43	0.37	0.32	0.24	0.18
2A	0.37	0.32	0.28	0.22	0.18
3.5A	0.34	0.28	0.23	0.18	0.20
5A	0.34	0.28	0.25	0.21	0.22
7A	0.38	0.32	0.28	0.22	0.17

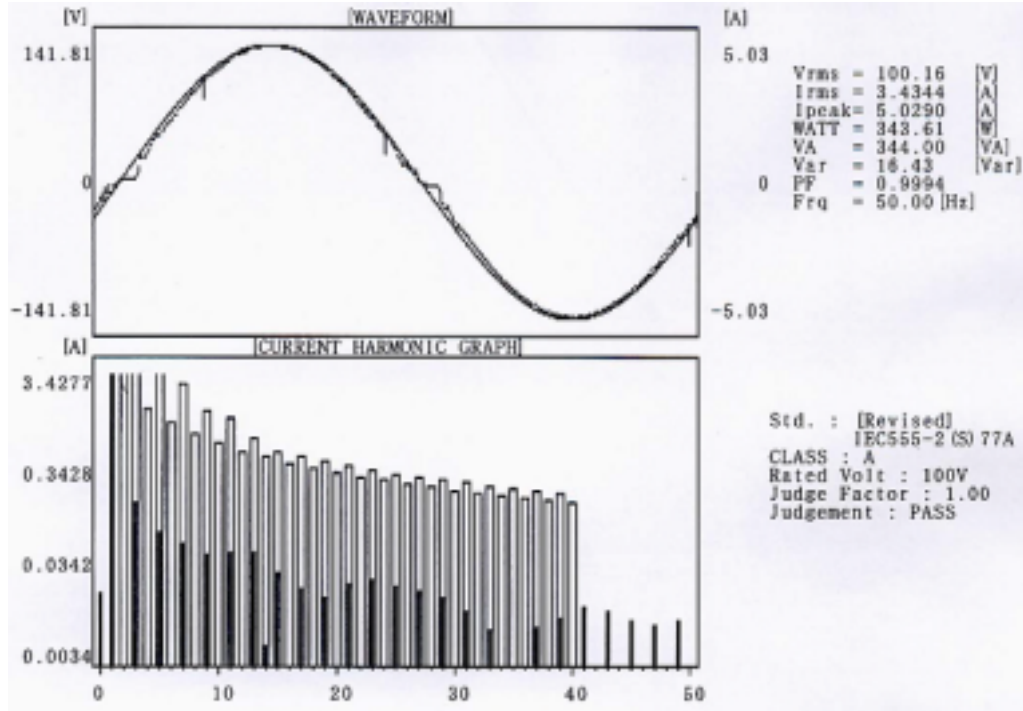
Model	NSP2-250-D2S																								
Item	Ambient Temperature Drift																								
V1:5V 20A																									
<table border="1"> <caption>at AC Input</caption> <thead> <tr> <th rowspan="2">Temperature ()</th> <th colspan="4">Output Voltage [V]</th> </tr> <tr> <th>Input Voltage AC85V</th> <th>Input Voltage AC100V</th> <th>Input Voltage AC240V</th> <th>Input Voltage AC264V</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>4.954</td> <td>4.953</td> <td>4.955</td> <td>4.954</td> </tr> <tr> <td>25</td> <td>4.953</td> <td>4.949</td> <td>4.951</td> <td>4.951</td> </tr> <tr> <td>50</td> <td>4.949</td> <td>4.954</td> <td>4.956</td> <td>4.956</td> </tr> </tbody> </table>		Temperature ()	Output Voltage [V]				Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	0	4.954	4.953	4.955	4.954	25	4.953	4.949	4.951	4.951	50	4.949	4.954	4.956	4.956
Temperature ()	Output Voltage [V]																								
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																					
0	4.954	4.953	4.955	4.954																					
25	4.953	4.949	4.951	4.951																					
50	4.949	4.954	4.956	4.956																					
<table border="1"> <caption>Fluctuation Value [%]</caption> <thead> <tr> <th>Temperature ()</th> <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>0</td> <td>-0.92</td> <td>-0.94</td> <td>-0.90</td> <td>-0.92</td> </tr> <tr> <td>25</td> <td>-1.04</td> <td>-1.02</td> <td>-0.98</td> <td>-0.98</td> </tr> <tr> <td>50</td> <td>-0.88</td> <td>-0.92</td> <td>-0.88</td> <td>-0.86</td> </tr> </tbody> </table>		Temperature ()	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	0	-0.92	-0.94	-0.90	-0.92	25	-1.04	-1.02	-0.98	-0.98	50	-0.88	-0.92	-0.88	-0.86				
Temperature ()	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																					
0	-0.92	-0.94	-0.90	-0.92																					
25	-1.04	-1.02	-0.98	-0.98																					
50	-0.88	-0.92	-0.88	-0.86																					
V2:3.3V 10A																									
<table border="1"> <caption>at AC Input</caption> <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>0</td> <td>3.253</td> <td>3.252</td> <td>3.252</td> <td>3.252</td> </tr> <tr> <td>25</td> <td>3.234</td> <td>3.236</td> <td>3.236</td> <td>3.237</td> </tr> <tr> <td>50</td> <td>3.230</td> <td>3.236</td> <td>3.236</td> <td>3.236</td> </tr> </tbody> </table>		Temperature ()	Output Voltage [V]				Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	0	3.253	3.252	3.252	3.252	25	3.234	3.236	3.236	3.237	50	3.230	3.236	3.236	3.236
Temperature ()	Output Voltage [V]																								
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																					
0	3.253	3.252	3.252	3.252																					
25	3.234	3.236	3.236	3.237																					
50	3.230	3.236	3.236	3.236																					
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Temperature ()	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																					
0	-1.42	-1.45	-1.45	-1.45																					
25	-2.00	-1.94	-1.94	-1.91																					
50	-2.12	-1.94	-1.94	-1.94																					

Model	NSP2-250-D2S			
Item	Ambient Temperature Drift			
V3: 12V 7A				
at AC Input				
Output Voltage [V]				
Temperature ()	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
0	11.980	11.980	11.981	11.982
25	11.974	11.976	11.977	11.978
50	11.969	11.969	11.970	11.970
Fluctuation Value [%]				
Temperature ()	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
0	-0.17	-0.17	-0.16	-0.15
25	-0.22	-0.20	-0.19	-0.18
50	-0.26	-0.26	-0.25	-0.25
V4: -5V 0.5A				
at AC Input				
Output Voltage [V]				
Temperature ()	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
0	-4.865	-4.866	-4.866	-4.866
25	-4.838	-4.855	-4.858	-4.858
50	-4.875	-4.878	-4.879	-4.879
Fluctuation Value [%]				
Temperature ()	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
0	-2.70	-2.68	-2.68	-2.68
25	-3.24	-2.90	-2.84	-2.84
50	-2.50	-2.44	-2.42	-2.42

Model	NSP2-250-D2S			
Item	Ambient Temperature Drift			
V5: -12V 0.5A				
at AC Input				
Output Voltage [V]				
Temperature (°C)	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
0	-11.814	-11.815	-11.814	-11.814
25	-11.829	-11.829	-11.829	-11.829
50	-11.827	-11.827	-11.827	-11.827
Fluctuation Value [%]				
Temperature (°C)	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
0	-1.55	-1.54	-1.55	-1.55
25	-1.43	-1.43	-1.43	-1.43
50	-1.44	-1.44	-1.44	-1.44
V6: 5Vs 1A				
at AC Input				
Output Voltage [V]				
Temperature (°C)	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
0	4.891	4.890	4.890	4.890
25	4.850	4.850	4.850	4.850
50	4.824	4.826	4.827	4.827
Fluctuation Value [%]				
Temperature (°C)	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
0	-2.18	-2.20	-2.20	-2.20
25	-3.00	-3.00	-3.00	-3.00
50	-3.52	-3.48	-3.46	-3.46

Model	NSP2-250-D2S
Item	Harmonic Current

Measuring Instrument : MP701(Keisoku Giken)

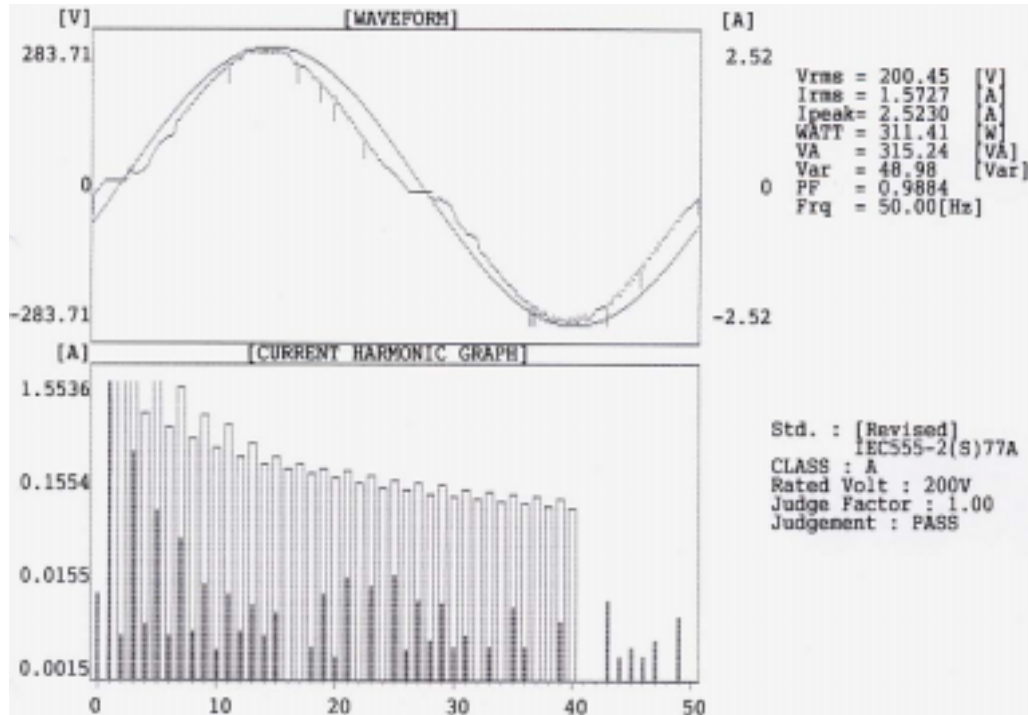


[CURRENT HARMONIC DATA]

No	(A)	No	(A)	No	(A)	No	(A)
00	0.0128	13	0.0343	26	0.0031	39	0.0070
01	3.4277	14	0.0038	27	0.0139	40	0.0021
02	0.0031	15	0.0209	28	0.0028	41	0.0091
03	0.1134	16	0.0022	29	0.0115	42	0.0022
04	0.0031	17	0.0144	30	0.0028	43	0.0082
05	0.0550	18	0.0015	31	0.0084	44	0.0007
06	0.0031	19	0.0115	32	0.0015	45	0.0068
07	0.0412	20	0.0025	33	0.0054	46	0.0000
08	0.0031	21	0.0157	34	0.0022	47	0.0061
09	0.0315	22	0.0021	35	0.0031	48	0.0007
10	0.0028	23	0.0174	36	0.0000	49	0.0068
11	0.0332	24	0.0018	37	0.0057		
12	0.0031	25	0.0155	38	0.0000		

Model	NSP2-250-D2S
Item	Harmonic Current

Measuring Instrument : MP701(Keisoku Giken)



[CURRENT HARMONIC DATA]

No	(A)	No	(A)	No	(A)	No	(A)
00	0.0075	13	0.0059	26	0.0021	39	0.0039
01	1.5536	14	0.0028	27	0.0064	40	0.0007
02	0.0028	15	0.0050	28	0.0025	41	0.0015
03	0.2086	16	0.0015	29	0.0061	42	0.0007
04	0.0038	17	0.0007	30	0.0022	43	0.0063
05	0.0543	18	0.0022	31	0.0028	44	0.0018
06	0.0028	19	0.0074	32	0.0007	45	0.0022
07	0.0283	20	0.0018	33	0.0022	46	0.0018
08	0.0031	21	0.0112	34	0.0007	47	0.0025
09	0.0095	22	0.0007	35	0.0055	48	0.0000
10	0.0021	23	0.0089	36	0.0022	49	0.0044
11	0.0076	24	0.0007	37	0.0007		
12	0.0031	25	0.0119	38	0.0000		

Model	NSP2-250-D2S
Item	Leakage Current Test

Temperature Room Temperature
 Input AC100V, 240V
 Load Rated Load, Minimum Load, at 'H' Remote on/off Signal

Input Voltage (V)	at Rated Load (mA)	at Minimum Load (mA)	at 'H' Remote Signal (mA)
100V	0.31	0.27	0.27
240V	0.71	0.71	0.71

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

Model	NSP2-250-D2S	
Item	Line Noise Tolerance	

Temperature	Room Temperature
Input	AC100V,60Hz
Load	Rated Load
Noise Impressed Voltage	± 2000V
Repeat Cycle	10 ~ 35ms
Pulse Width	50,800ns

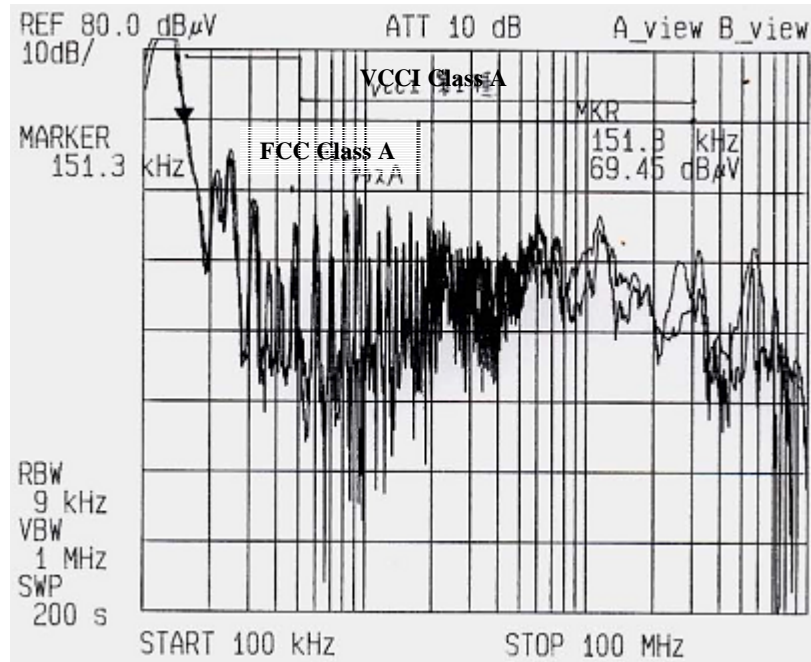
Normal	Pulse Impressed Mode			
	50ns		800ns	
	Polarity +	Polarity -	Polarity +	Polarity -
Common R Phase	Pulse Impressed Mode			
	50ns		800ns	
	Polarity +	Polarity -	Polarity +	Polarity -
Common S Phase	Pulse Impressed Mode			
	50ns		800ns	
	Polarity +	Polarity -	Polarity +	Polarity -

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

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

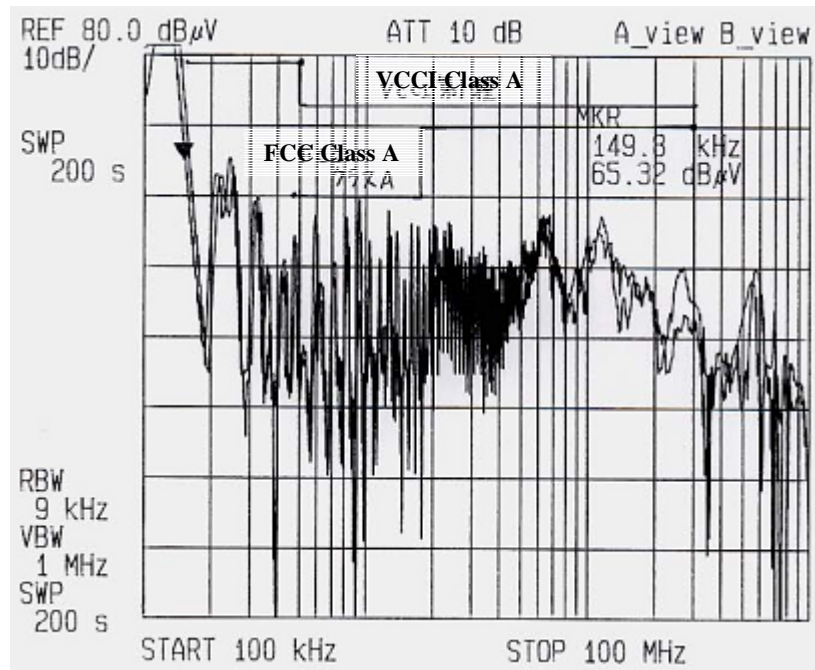
Model	NSP2-250-D2S
Item	Conduction Emission

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



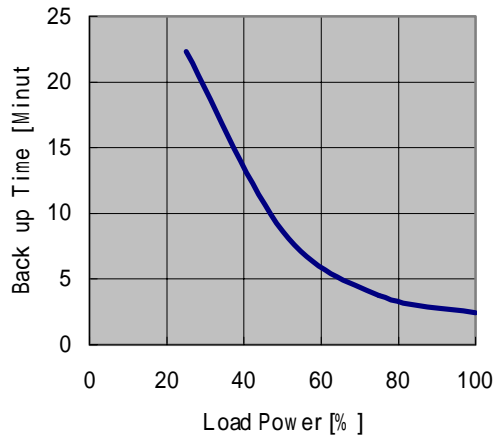
Model	NSP2-250-D2S
Item	Conduction Emission

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



Model	NSP2-250-D2S
Item	Battery Discharge

Back up Time

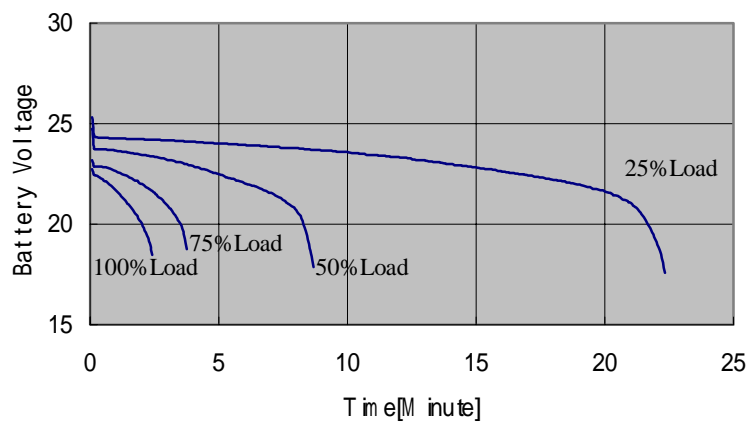


At Room Temperature (25 °C)

Load Power [%]	Back up Time [Minute]
25	22.32
50	8.64
75	3.76
100	2.43

100% Load = 230.5W

Battery Voltage



Battery : PS2538L(Lead-Acid Battery)