



Test Data

aNSP3-250P-S20

(AC90~132V, 180~264V And DC24V Battery Input)

NON-STOP POWER SUPPLY

Approved by : *K. Imai*

Prepared by : *K. Yamada*

INPUT : AC 90V ~ 132V
AC 180V ~ 264V
Battery 24V

OUTPUT : V1: 5V 14A (Peak 25A)
V2: 3.3V 9.1A (Peak 20A)
V3: 12V 7A (Peak 13A)
V4: -5V 0.3A
V5: -12V 0.8A
V6: 5Vs 1.5A

株式会社 ニプロン
Nipron.Co.,Ltd.

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Model	aNSP3-250P-S20																					
Item	Line Regulation																					
V1:5V 14A																						
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Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]																				
DC 20	5.036	0.72																				
24	5.040	0.80																				
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V2:3.3V 9.4A																						
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Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]																				
AC 90	3.294	-0.18																				
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Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]																				
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DC 20	-11.931	-0.58																				
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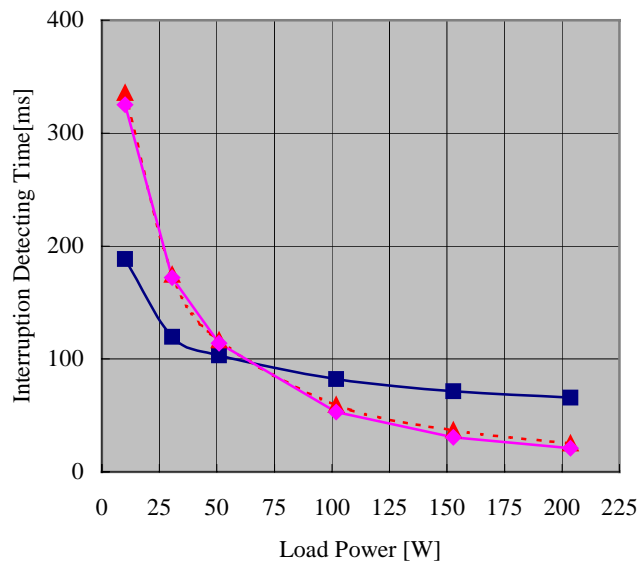
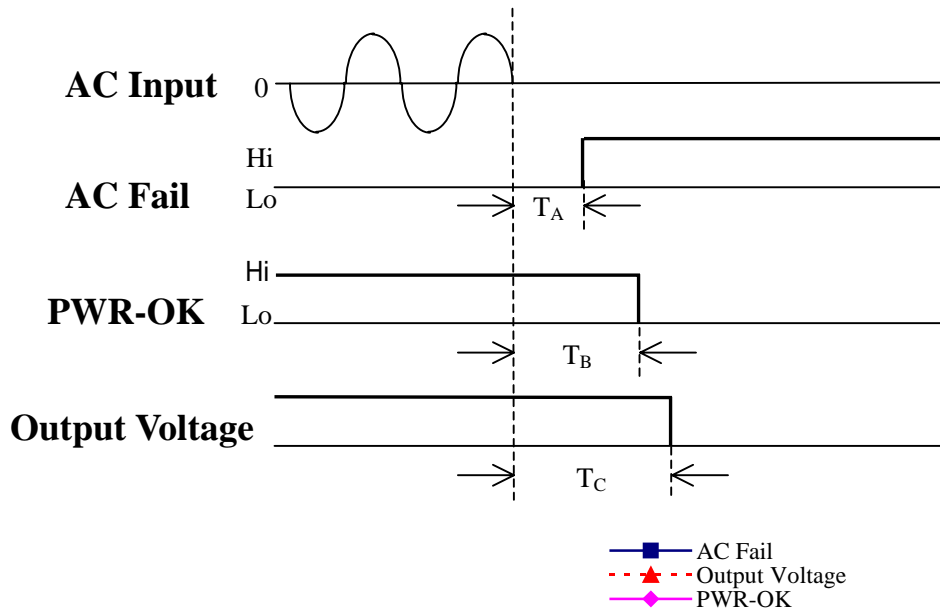
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Model	aNSP3-250P-S20
Item	Instantaneous Interruption Compensation (by Load Power)

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



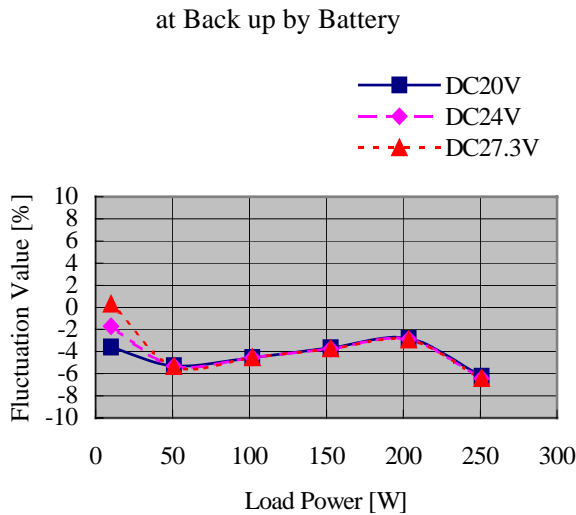
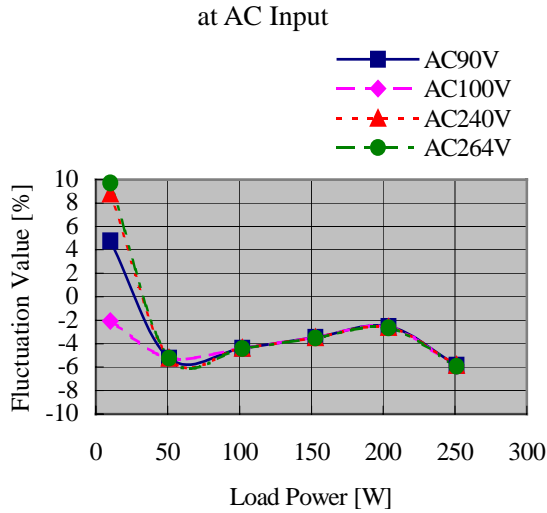
Load Power [W]	Interruption Detecting Time (ms)		
	AC Fail T_A	PWR-OK T_B	DC Output T_C
10	188.40	325.30	335.60
30.59	119.60	171.94	174.55
50.96	103.20	114.09	116.63
101.81	82.20	53.01	59.31
152.77	71.40	30.52	36.83
203.62	65.80	20.96	25.26

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Model	aNSP3-250P-S20
Item	Load Regulation

V3:12V 7A



at AC Input

Load Power [W]	Fluctuation Value [%]			
	Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V
10	4.76	-2.08	8.78	9.72
50.96	-5.24	-5.23	-5.23	-5.23
101.81	-4.40	-4.40	-4.40	-4.41
152.77	-3.47	-3.47	-3.49	-3.51
203.62	-2.52	-2.55	-2.63	-2.64
250.97	-5.83	-5.92	-5.83	-5.92

Load Condition

Load Power [W]	Load Current [A]					
	5V	3.3V	12V	-5V	-12V	5Vs
10	2	0	0	0	0	0
50.96	3.5	2.35	1.75	0.08	0.2	0.38
101.81	7	4.7	3.5	0.15	0.4	0.75
152.77	10.5	7.05	5.25	0.23	0.6	1.13
203.62	14	9.4	7	0.3	0.8	1.5
250.97	8.9	8.9	13	0.3	0.8	2

at Back up by Battery

Load Power [W]	Fluctuation Value [%]		
	Input Voltage DC20V	Input Voltage DC24V	Input Voltage DC27.3V
10	-3.59	-1.73	0.29
50.96	-5.30	-5.32	-5.33
101.81	-4.53	-4.55	-4.53
152.77	-3.67	-3.75	-3.76
203.62	-2.83	-2.89	-2.96
250.97	-6.25	-6.42	-6.42

Load Condition

Load Power [W]	Load Current [A]					
	5V	3.3V	12V	-5V	-12V	5Vs
10	2	0	0	0	0	0
50.96	3.5	2.35	1.75	0.08	0.2	0.38
101.81	7	4.7	3.5	0.15	0.4	0.75
152.77	10.5	7.05	5.25	0.23	0.6	1.13
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Model	aNSP3-250P-S20							
Item	Ripple / Noise Voltage Test							
			V1	5V	V2	3.3V	V3	12V
Temperature	Input Voltage		Ripple (mV)	Noise (mV)	Ripple (mV)	Noise (mV)	Ripple (mV)	Noise (mV)
-5	AC	90 V	34	/ 56	10	/ 40	100	/ 120
		100 V	32	/ 54	10	/ 40	100	/ 110
		132 V	32	/ 54	12	/ 48	90	/ 100
		180 V	34	/ 58	10	/ 43	106	/ 114
		240 V	30	/ 50	12	/ 50	96	/ 105
		264 V	32	/ 54	12	/ 50	90	/ 105
25	AC	90 V	30	/ 48	7	/ 30	100	/ 115
		100 V	28	/ 42	8	/ 28	90	/ 100
		132 V	28	/ 48	10	/ 40	80	/ 100
		180 V	30	/ 48	8	/ 30	100	/ 110
		240 V	28	/ 48	10	/ 44	90	/ 95
		264 V	30	/ 48	10	/ 40	90	/ 100
55	AC	90 V	28	/ 60	8	/ 46	90	/ 100
		100 V	26	/ 52	8	/ 40	90	/ 100
		132 V	24	/ 52	10	/ 48	85	/ 100
		180 V	24	/ 46	8	/ 38	100	/ 100
		240 V	24	/ 46	8	/ 44	85	/ 115
		264 V	24	/ 46	10	/ 44	90	/ 108
Specification			50	/ 100	50	/ 100	150	/ 200
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)
-5	AC	90 V	7	/ 38	7	/ 40	14	/ 44
		100 V	7	/ 38	7	/ 40	14	/ 40
		132 V	7	/ 42	7	/ 48	14	/ 50
		180 V	6	/ 36	7	/ 38	12	/ 46
		240 V	6	/ 44	7	/ 44	12	/ 50
		264 V	6	/ 46	7	/ 44	12	/ 50
25	AC	90 V	5	/ 28	5	/ 32	8	/ 30
		100 V	5	/ 30	7	/ 34	8	/ 34
		132 V	7	/ 38	7	/ 38	10	/ 40
		180 V	5	/ 28	7	/ 30	8	/ 36
		240 V	7	/ 42	7	/ 44	8	/ 50
		264 V	7	/ 42	7	/ 40	8	/ 50
55	AC	90 V	7	/ 34	7	/ 38	12	/ 45
		100 V	7	/ 34	7	/ 38	7	/ 38
		132 V	7	/ 40	7	/ 44	7	/ 44
		180 V	7	/ 34	8	/ 38	12	/ 38
		240 V	7	/ 38	8	/ 42	7	/ 42
		264 V	7	/ 42	8	/ 44	7	/ 40
Specification			50	/ 100	100	/ 200	50	/ 100
Judgment			Good		Good		Good	

Model	aNSP3-250P-S20							
Item	Ripple / Noise Voltage Test							
			V1	5V	V2	3.3V	V3	12V
Temperature	Input Voltage		Ripple (mV)	Noise (mV)	Ripple (mV)	Noise (mV)	Ripple (mV)	Noise (mV)
-5	DC	20 V	14	/ 44	7	/ 40	45	/ 50
		24 V	14	/ 44	7	/ 40	45	/ 50
		27.3 V	16	/ 44	7	/ 40	45	/ 50
25	DC	20 V	10	/ 50	7	/ 60	42	/ 35
		24 V	10	/ 50	7	/ 60	42	/ 35
		27.3 V	12	/ 50	7	/ 60	42	/ 35
55	DC	20 V	8	/ 30	7	/ 40	40	/ 30
		24 V	10	/ 30	7	/ 40	40	/ 30
		27.3 V	10	/ 30	7	/ 40	40	/ 30
Specification			50	/ 100	50	/ 100	150	/ 200
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)
-5	DC	20 V	7	/ 45	6	/ 45	15	/ 50
		24 V	7	/ 45	6	/ 45	15	/ 50
		27.3 V	7	/ 45	6	/ 45	13	/ 50
25	DC	20 V	7	/ 35	10	/ 40	10	/ 35
		24 V	8	/ 35	10	/ 40	10	/ 35
		27.3 V	8	/ 35	10	/ 40	10	/ 35
55	DC	20 V	7	/ 25	7	/ 30	14	/ 30
		24 V	7	/ 25	8	/ 30	14	/ 30
		27.3 V	8	/ 25	8	/ 30	12	/ 30
Specification			50	/ 100	100	/ 200	50	/ 100
Judgment			Good		Good		Good	

Model	aNSP3-250P-S20			
Item	Over-Current Protection			
Load : Rated Load				
Temperature	Input Voltage	V1 5V	V2 3.3V	V3 12V
-5	AC 90 V	29.3 A	23.5 A	15.0 A
	100 V	30.0 A	25.0 A	15.4 A
	132 V	35.5 A	31.5 A	18.5 A
	180 V	30.0 A	24.0 A	15.3 A
	240 V	34.5 A	29.0 A	18.0 A
	264 V	37.0 A	33.0 A	19.3 A
	DC 20 V	36.0 A	32.5 A	21.0 A
	24 V	47.0 A	34.0 A	22.0 A
	27.3 V	49.0 A	35.0 A	22.8 A
25	AC 90 V	28.6 A	22.7 A	14.5 A
	100 V	29.4 A	24.0 A	15.3 A
	132 V	36.5 A	27.2 A	18.8 A
	180 V	29.0 A	23.5 A	15.0 A
	240 V	34.5 A	28.8 A	18.0 A
	264 V	38.0 A	29.0 A	19.9 A
	DC 20 V	35.0 A	28.6 A	21.0 A
	24 V	43.0 A	28.9 A	22.3 A
	27.3 V	46.0 A	29.6 A	22.3 A
55	AC 90 V	27.4 A	21.5 A	14.5 A
	100 V	28.1 A	22.5 A	14.7 A
	132 V	35.0 A	29.5 A	19.0 A
	180 V	28.0 A	22.3 A	14.5 A
	240 V	34.5 A	26.5 A	18.5 A
	264 V	38.5 A	28.0 A	20.6 A
	DC 20 V	35.0 A	23.5 A	19.0 A
	24 V	42.0 A	26.0 A	21.0 A
	27.3 V	47.0 A	27.0 A	22.0 A
Specification		26A or More	21A or More	14A or More
Judgment		Good	Good	Good

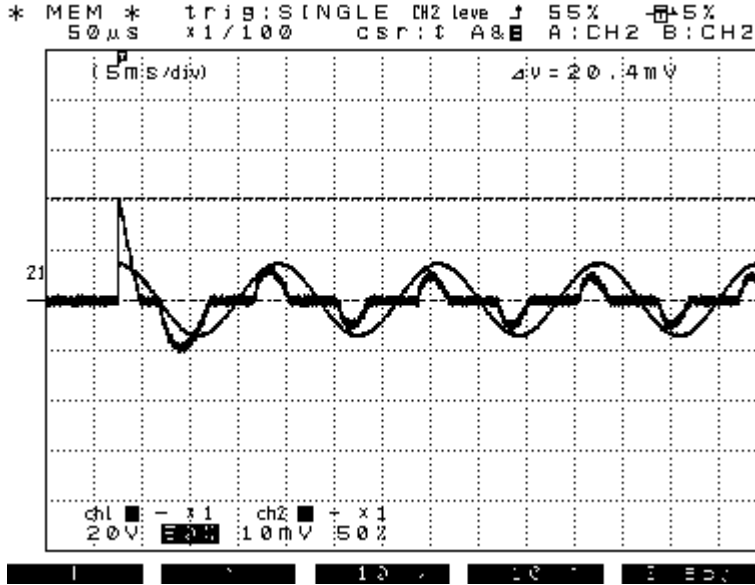
Model	aNSP3-250P-S20			
Item	Over-Current Protection			
Temperature	Input Voltage	V4 -5V	V5 -12V	V6 5VS
-5	AC 90 V	0.63 A	1.30 A	3.00 A
	100 V	0.70 A	1.30 A	3.00 A
	132 V	0.75 A	1.45 A	3.00 A
	180 V	0.75 A	1.30 A	3.10 A
	240 V	0.77 A	1.35 A	3.10 A
	264 V	0.80 A	1.45 A	3.10 A
	DC 20 V	0.80 A	1.10 A	3.10 A
	24 V	0.82 A	1.10 A	3.10 A
25	27.3 V	0.82 A	1.10 A	3.10 A
	AC 90 V	0.60 A	1.30 A	2.40 A
	100 V	0.60 A	1.30 A	2.40 A
	132 V	0.60 A	1.40 A	2.40 A
	180 V	0.65 A	1.40 A	2.70 A
	240 V	0.66 A	1.42 A	2.70 A
	264 V	0.65 A	1.45 A	2.70 A
	DC 20 V	0.70 A	1.05 A	2.60 A
55	24 V	0.70 A	1.10 A	2.60 A
	27.3 V	0.70 A	1.10 A	2.60 A
	AC 90 V	0.57 A	1.25 A	2.40 A
	100 V	0.57 A	1.30 A	2.40 A
	132 V	0.57 A	1.42 A	2.50 A
	180 V	0.60 A	1.25 A	2.40 A
	240 V	0.60 A	1.20 A	2.40 A
	264 V	0.60 A	1.35 A	2.40 A
DC 20 V	0.60 A	1.00 A	2.40 A	
Specification	24 V	0.60 A	1.10 A	2.40 A
	27.3 V	0.60 A	1.10 A	2.40 A
Specification		0.33A or More	0.84A or More	2.1A or More
Judgment		Good	Good	Good

Model	aNSP3-250P-S20
Item	Over-Voltage Protection

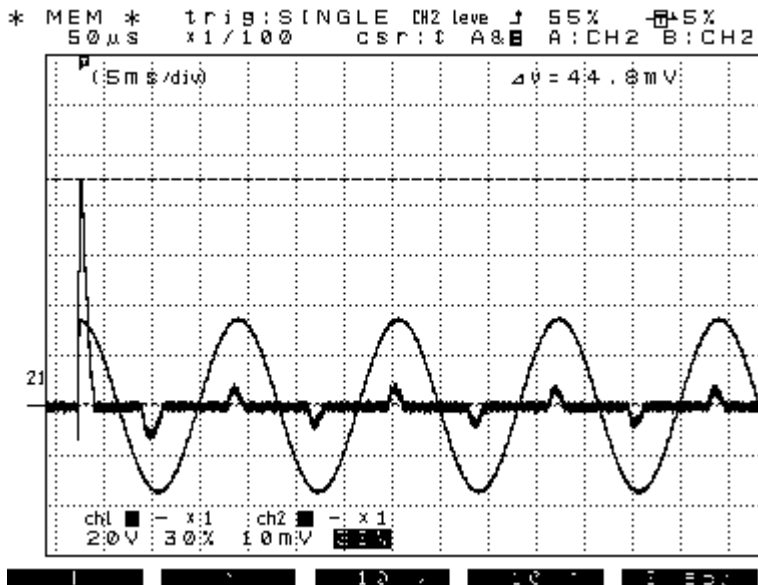
Temperature	Input Voltage	V1:5V	V2:3.3V	V3:12V
-5	AC100V	6.75V	4.50V	15.00V
	AC240V	6.60V	4.45V	15.00V
	DC24V	6.70V	4.47V	15.00V
25	AC100V	6.50V	4.15V	15.05V
	AC240V	6.50V	4.18V	15.06V
	DC24V	6.50V	4.18V	15.05V
55	AC100V	6.40V	4.00V	15.10V
	AC240V	6.40V	4.02V	15.07V
	DC24V	6.35V	4.00V	15.10V
Specification		5.6 ~ 7.0V	3.8 ~ 4.8V	13.4 ~ 15.6V
Judgment		Good	Good	Good

Model	aNSP3-250P-S20
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 Temperature : 25
Note :	
Inrush Current Value : 40.8A	

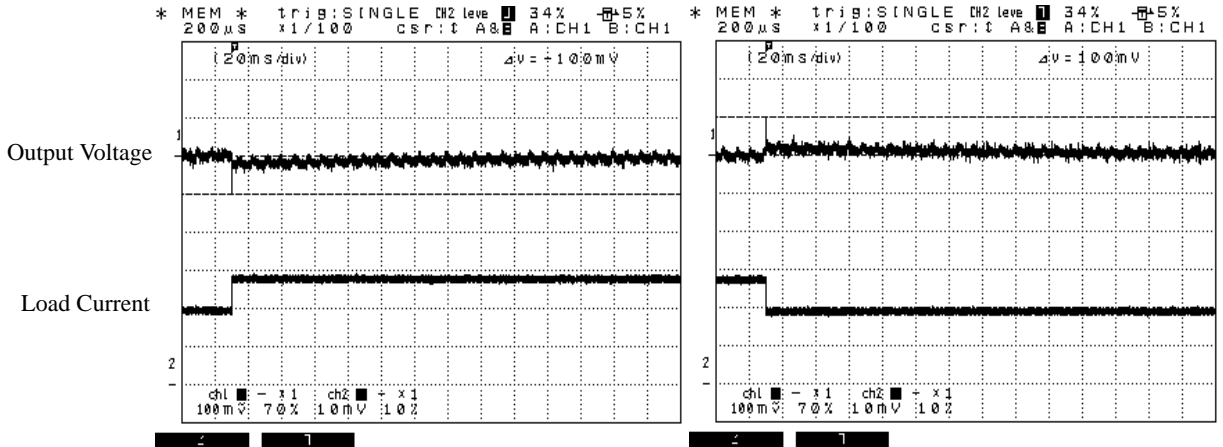


Wave No.2	
CH1	Measuring Point : Input Voltage Range 200V/DIV
CH2	Measuring Point : Input Current Range 20A/DIV
Time Line	5ms/DIV
Conditions	Input : AC240V 60Hz Load : Rated Load Temperature : 25
Note :	
Inrush Current Value : 89.6A	

Model	aNSP3-250P-S20
Item	Dynamic Load Response

V1: +5V 15A

70% Load 100% Load

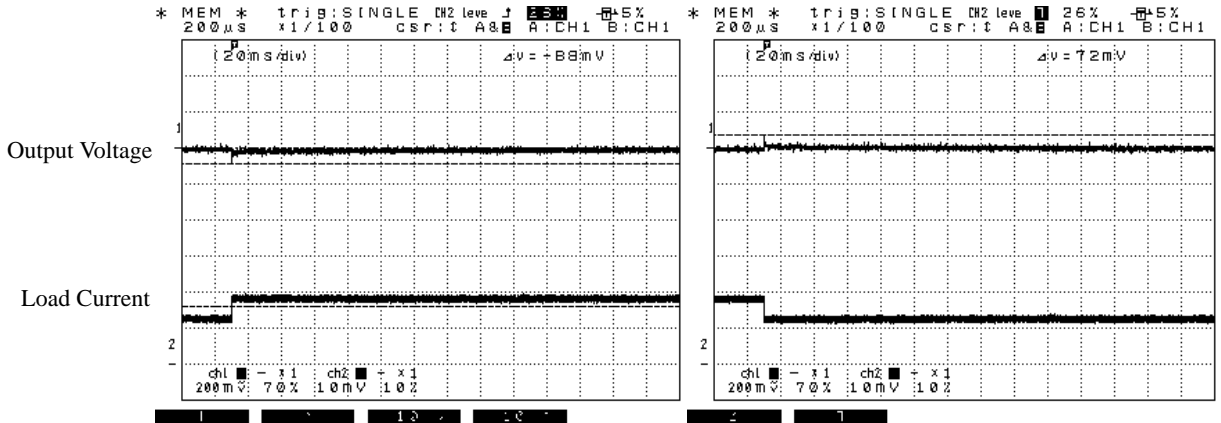


Sudden Fluctuation of Load	Fluctuation Value	ATX Specific Value	Judgment
70% Load 100% Load	- mV -100mV	± 250mV	Good
100% Load 70% Load	100mV - mV		Good

Model	aNSP3-250P-S20
Item	Dynamic Load Response

V2: +3.3V 9.4A

70% Load 100% Load

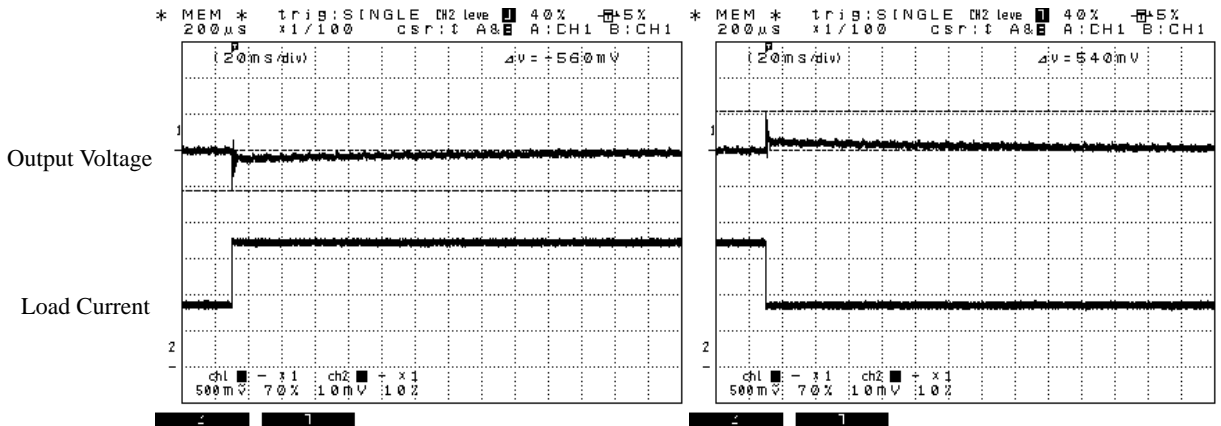


Sudden Fluctuation of Load	Fluctuation Value	ATX Specific Value	Judgment
70% Load 100% Load	- mV -88mV	± 165mV	Good
100% Load 70% Load	72mV - mV		Good

Model	aNSP3-250P-S20
Item	Dynamic Load Response

V3: +12V 7A

50% Load 100% Load



Sudden Fluctuation of Load	Fluctuation Value	ATX Specific Value	Judgment
50% Load 100% Load	140mV -560mV	± 600mV	Good
100% Load 50% Load	540mV -100mV		Good

Model	aNSP3-250P-S20																																									
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 2A</th> <th>5V 3.5A</th> <th>5V 7A</th> <th>5V 14A</th> <th>5V 15A</th> </tr> </thead> <tbody> <tr> <td>0A</td> <td>12.178</td> <td>12.185</td> <td>12.197</td> <td>12.234</td> <td>12.553</td> </tr> <tr> <td>3.5A</td> <td>11.393</td> <td>11.452</td> <td>11.587</td> <td>11.863</td> <td>12.320</td> </tr> <tr> <td>7A</td> <td>11.293</td> <td>11.350</td> <td>11.481</td> <td>11.757</td> <td>12.200</td> </tr> <tr> <td>10A</td> <td>11.206</td> <td>11.262</td> <td>11.393</td> <td>-</td> <td>-</td> </tr> <tr> <td>13A</td> <td>11.116</td> <td>11.173</td> <td>11.304</td> <td>-</td> <td>-</td> </tr> </tbody> </table>		12V Load Current	12V Voltage Value [V]					5V 2A	5V 3.5A	5V 7A	5V 14A	5V 15A	0A	12.178	12.185	12.197	12.234	12.553	3.5A	11.393	11.452	11.587	11.863	12.320	7A	11.293	11.350	11.481	11.757	12.200	10A	11.206	11.262	11.393	-	-	13A	11.116	11.173	11.304	-	-
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Model	aNSP3-250P-S20																																																	
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V1:5V 14A 		<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 AC90V</th> <th>Input Voltage AC100V</th> <th>Input Voltage AC240V</th> <th>Input Voltage AC264V</th> </tr> </thead> <tbody> <tr> <td>-5</td> <td>5.069</td> <td>5.069</td> <td>5.070</td> <td>5.071</td> </tr> <tr> <td>25</td> <td>5.057</td> <td>5.058</td> <td>5.057</td> <td>5.057</td> </tr> <tr> <td>55</td> <td>5.004</td> <td>5.004</td> <td>5.007</td> <td>5.007</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 AC90V</th> <th>Input Voltage AC100V</th> <th>Input Voltage AC240V</th> <th>Input Voltage AC264V</th> </tr> </thead> <tbody> <tr> <td>-5</td> <td>1.38</td> <td>1.38</td> <td>1.40</td> <td>1.42</td> </tr> <tr> <td>25</td> <td>1.14</td> <td>1.16</td> <td>1.14</td> <td>1.14</td> </tr> <tr> <td>55</td> <td>0.08</td> <td>0.08</td> <td>0.14</td> <td>0.14</td> </tr> </tbody> </table>	Temperature ()	Output Voltage [V]				Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	-5	5.069	5.069	5.070	5.071	25	5.057	5.058	5.057	5.057	55	5.004	5.004	5.007	5.007	Temperature ()	Fluctuation Value [%]				Input Voltage AC90V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	-5	1.38	1.38	1.40	1.42	25	1.14	1.16	1.14	1.14	55	0.08	0.08	0.14	0.14
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Model	aNSP3-250P-S20
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	0.41	0.42
240V	0.74	0.75

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

Model	aNSP3-250P-S20
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

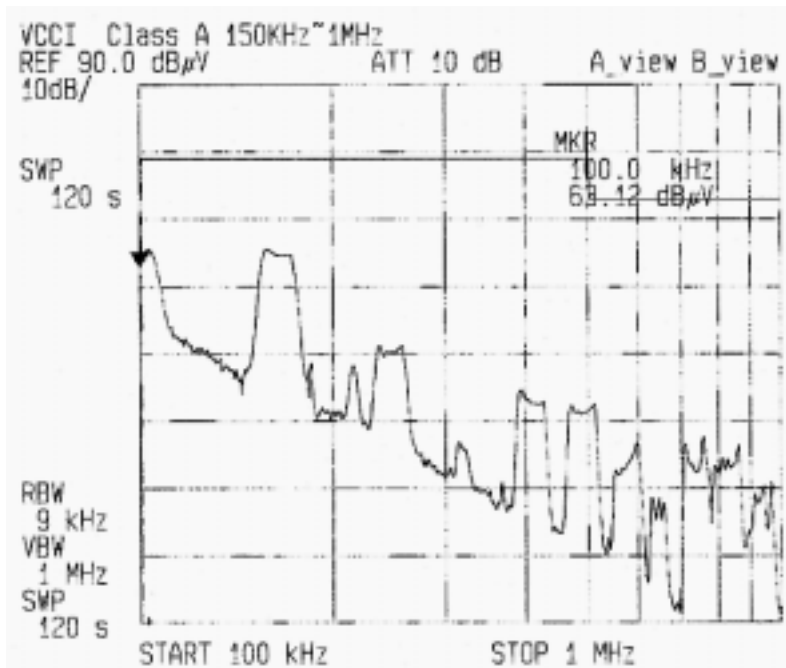
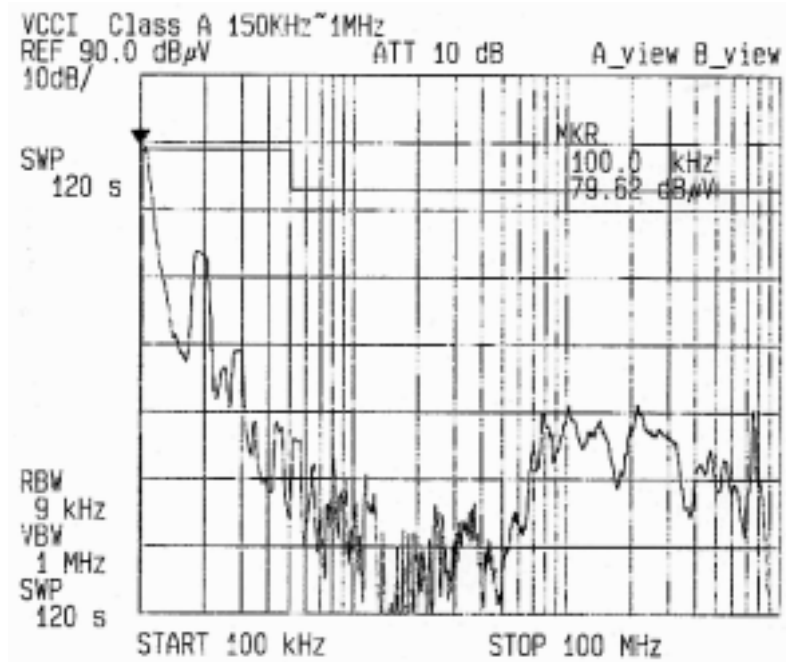
Normal	Pulse Impressed Mode			
	100ns		1000ns	
	Polarity +	Polarity -	Polarity +	Polarity -
Common R Phase	Pulse Impressed Mode			
	100ns		1000ns	
	Polarity +	Polarity -	Polarity +	Polarity -
Common S Phase	Pulse Impressed Mode			
	100ns		1000ns	
	Polarity +	Polarity -	Polarity +	Polarity -

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

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

Model	aNSP3-250P-S20
Item	Conduction Emission

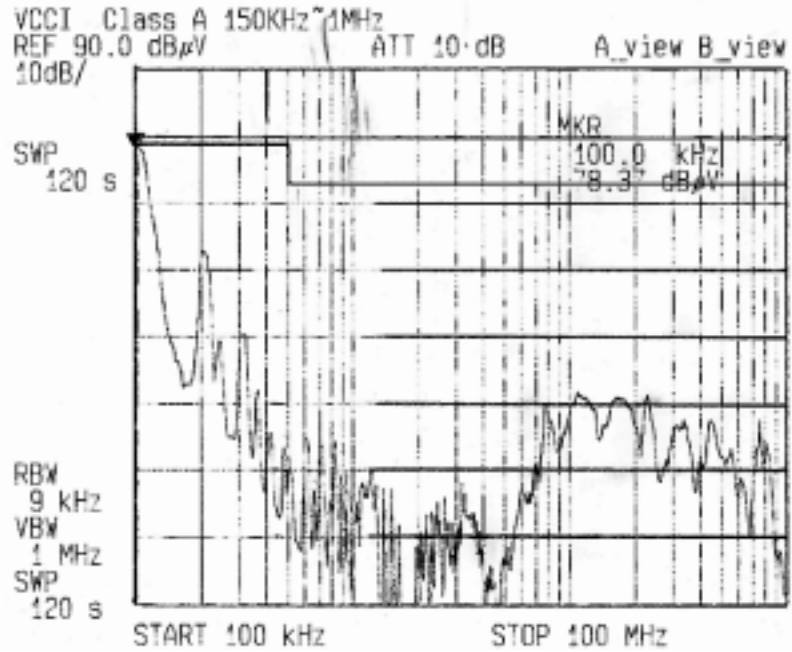
Temperature	Room Temperature
Input	AC100V
Load	Rated Load
Measuring Point	L-FG
Measuring Instrument	R3261A (Advantest)



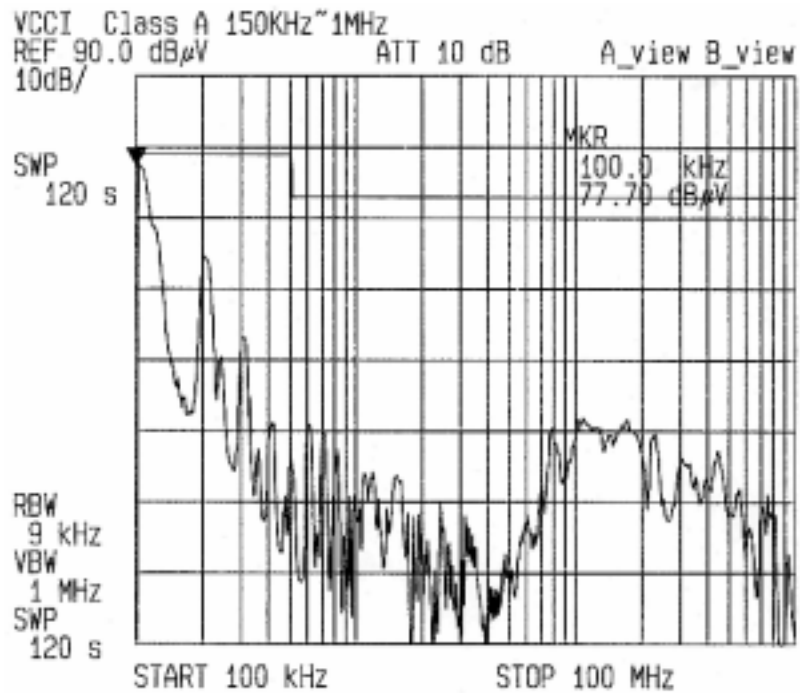
Model	aNSP3-250P-S20
Item	Conduction Emission

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

Phase A

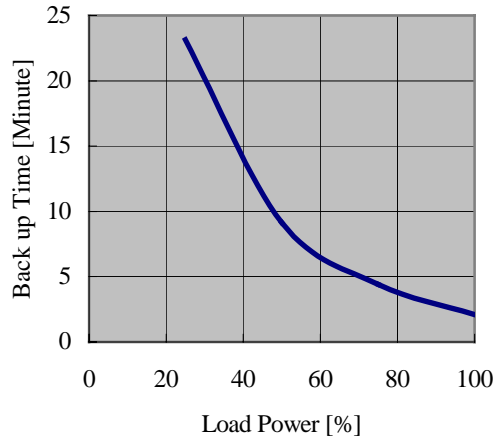


Phase B



Model	aNSP3-250P-S20
Item	Battery Discharge

Back up Time

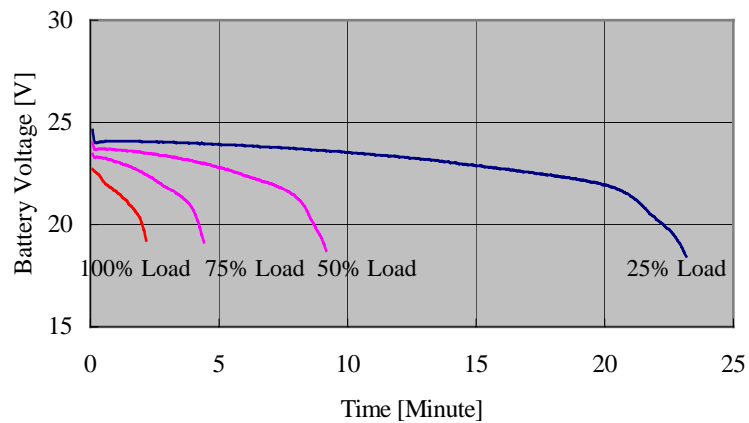


At Room Temperature (25 °C)

Load Power [%]	Back up Time [Minute]
25	23.13
50	9.13
75	4.42
100	2.10

100%Load =203.6W

Battery Voltage



Battery : PS2698L(Lead-Acid Battery)