



# Test Data

eNSP-300P-S20-11

(AC85~264V And DC24V Battery INPUT)

NON-STOP POWER SUPPLY

Approved by : Osami Nakamura

Prepared by : Naoki Yamamoto

INPUT : AC 85V ~ 264V  
Battery 24V

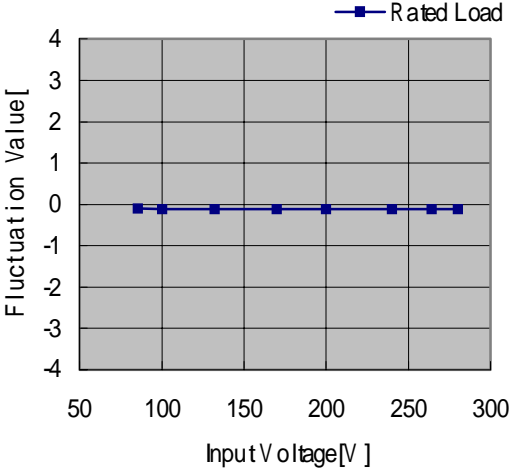
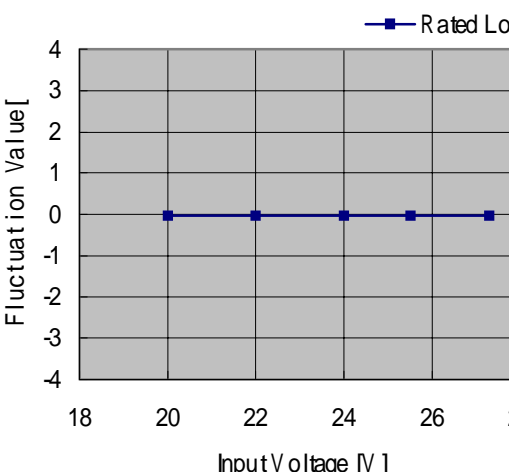
OUTPUT : V1: 5V 14A (Peak 30A)  
V2: 3.3V 9.4A (Peak 28A)  
V3: 12V 7A (Peak 15A)  
V4: -5V 0.3A  
V5: -12V 0.8A  
V6: 5Vs 1.5A (Peak 2.5A)

株式会社 ニプロン  
Nipron.Co.,Ltd.

# CONTENTS

1. <b>Line Regulation</b> .....	1 ~ 6
2. <b>Input Current (by Load Power)</b> .....	7
3. <b>Input Power (by Load Power)</b> .....	8
4. <b>Efficiency (by Input Voltage)</b> .....	9
5. <b>Efficiency (by Load Power)</b> .....	10
6. <b>Power Factor</b> .....	11
7. <b>Instantaneous Interruption Compensation (by Load Power)</b> ..	12
8. <b>Load Regulation</b> .....	13 ~ 18
9. <b>Ripple-Noise</b> .....	19
10. <b>Over-Current Protection</b> .....	20
11. <b>Over-Voltage Protection</b> .....	21
12. <b>Inrush Current</b> .....	22
13. <b>Dynamic Load Response</b> .....	23 ~ 25
14. <b>12V Cross Regulation</b> .....	26
15. <b>Ambient Temperature Drift</b> .....	27 ~ 29
16. <b>Harmonic Current</b> .....	30 ~ 31
17. <b>Leakage Current</b> .....	32
18. <b>Line Noise Tolerance</b> .....	33
19. <b>Conducted Emission</b> .....	34 ~ 36
20. <b>Battery Discharge</b> .....	37

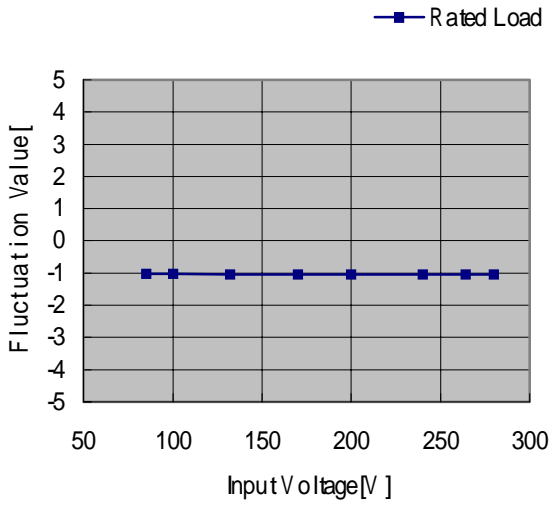
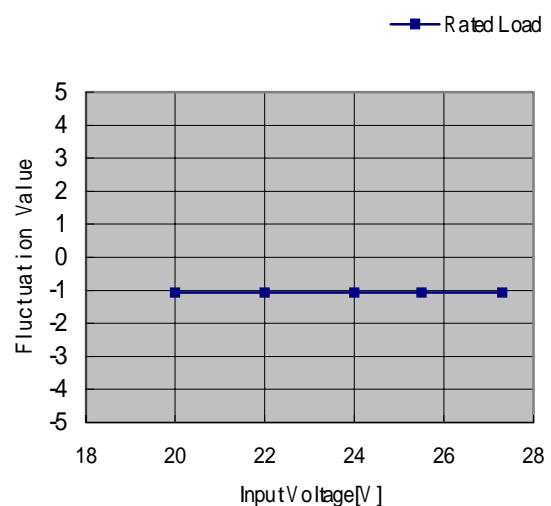
Model	eNSP-300P-S20-11																
Item	Line Regulation																
<p>V1: 5V 14A</p> <p>at AC Input</p> <p>Legend: Rated Load</p>		<p>at AC Input</p> <table border="1"> <thead> <tr> <th>Input Voltage [V]</th> <th>Output Voltage [V]</th> <th>Fluctuation Value [%]</th> </tr> </thead> <tbody> <tr> <td>AC 85</td> <td>4.983</td> <td>-0.34</td> </tr> <tr> <td>100</td> <td>4.980</td> <td>-0.40</td> </tr> <tr> <td>240</td> <td>4.977</td> <td>-0.46</td> </tr> <tr> <td>264</td> <td>4.977</td> <td>-0.46</td> </tr> </tbody> </table>	Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]	AC 85	4.983	-0.34	100	4.980	-0.40	240	4.977	-0.46	264	4.977	-0.46
Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]															
AC 85	4.983	-0.34															
100	4.980	-0.40															
240	4.977	-0.46															
264	4.977	-0.46															
<p>at Back up by Battery</p> <p>Legend: Rated Load</p>		<p>at Back up by Battery</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>DC 20</td> <td>4.984</td> <td>-0.32</td> </tr> <tr> <td>24</td> <td>4.982</td> <td>-0.36</td> </tr> <tr> <td>27</td> <td>4.982</td> <td>-0.36</td> </tr> </tbody> </table>	Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]	DC 20	4.984	-0.32	24	4.982	-0.36	27	4.982	-0.36			
Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]															
DC 20	4.984	-0.32															
24	4.982	-0.36															
27	4.982	-0.36															

Model	eNSP-300P-S20-11																
Item	Line Regulation																
<p>V2: 3.3V 9.4A 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>3.297</td> <td>-0.09</td> </tr> <tr> <td>100</td> <td>3.296</td> <td>-0.12</td> </tr> <tr> <td>240</td> <td>3.296</td> <td>-0.12</td> </tr> <tr> <td>264</td> <td>3.296</td> <td>-0.12</td> </tr> </tbody> </table>	Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]	AC 85	3.297	-0.09	100	3.296	-0.12	240	3.296	-0.12	264	3.296	-0.12
Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]															
AC 85	3.297	-0.09															
100	3.296	-0.12															
240	3.296	-0.12															
264	3.296	-0.12															
<p>at Back up by Battery</p> 		<p>at Back up by Battery</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>DC 20</td> <td>3.299</td> <td>-0.03</td> </tr> <tr> <td>24</td> <td>3.299</td> <td>-0.03</td> </tr> <tr> <td>27</td> <td>3.299</td> <td>-0.03</td> </tr> </tbody> </table>	Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]	DC 20	3.299	-0.03	24	3.299	-0.03	27	3.299	-0.03			
Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]															
DC 20	3.299	-0.03															
24	3.299	-0.03															
27	3.299	-0.03															

Model	eNSP-300P-S20-11																
Item	Line Regulation																
<p>V3: 12V 7A</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>11.662</td> <td>-2.817</td> </tr> <tr> <td>100</td> <td>11.654</td> <td>-2.883</td> </tr> <tr> <td>240</td> <td>11.647</td> <td>-2.942</td> </tr> <tr> <td>264</td> <td>11.647</td> <td>-2.942</td> </tr> </tbody> </table>	Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]	AC 85	11.662	-2.817	100	11.654	-2.883	240	11.647	-2.942	264	11.647	-2.942
Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]															
AC 85	11.662	-2.817															
100	11.654	-2.883															
240	11.647	-2.942															
264	11.647	-2.942															
<p>at Back up by Battery</p>		<p>at Back up by Battery</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>DC 20</td> <td>11.678</td> <td>-2.683</td> </tr> <tr> <td>24</td> <td>11.687</td> <td>-2.608</td> </tr> <tr> <td>27</td> <td>11.672</td> <td>-2.773</td> </tr> </tbody> </table>	Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]	DC 20	11.678	-2.683	24	11.687	-2.608	27	11.672	-2.773			
Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]															
DC 20	11.678	-2.683															
24	11.687	-2.608															
27	11.672	-2.773															

Model	eNSP-300P-S20-11																
Item	Line Regulation																
<p>V4: -5V 0.3A at AC Input</p> <p>Fluctuation Value</p> <p>Input Voltage[V]</p> <p>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>-5.022</td> <td>0.44</td> </tr> <tr> <td>100</td> <td>-5.022</td> <td>0.44</td> </tr> <tr> <td>240</td> <td>-5.022</td> <td>0.44</td> </tr> <tr> <td>264</td> <td>-5.022</td> <td>0.44</td> </tr> </tbody> </table>	Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]	AC 85	-5.022	0.44	100	-5.022	0.44	240	-5.022	0.44	264	-5.022	0.44
Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]															
AC 85	-5.022	0.44															
100	-5.022	0.44															
240	-5.022	0.44															
264	-5.022	0.44															
<p>at Back up by Battery</p> <p>Fluctuation Value</p> <p>Input Voltage[V]</p> <p>Rated Load</p>		<p>at Back up by Battery</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>DC 20</td> <td>-5.017</td> <td>0.34</td> </tr> <tr> <td>24</td> <td>-5.017</td> <td>0.34</td> </tr> <tr> <td>27</td> <td>-5.017</td> <td>0.34</td> </tr> </tbody> </table>	Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]	DC 20	-5.017	0.34	24	-5.017	0.34	27	-5.017	0.34			
Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]															
DC 20	-5.017	0.34															
24	-5.017	0.34															
27	-5.017	0.34															

Model	eNSP-300P-S20-11																
Item	Line Regulation																
<p>V5: -12V 0.8A 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>-12.072</td> <td>0.6</td> </tr> <tr> <td>100</td> <td>-12.072</td> <td>0.6</td> </tr> <tr> <td>240</td> <td>-12.072</td> <td>0.6</td> </tr> <tr> <td>264</td> <td>-12.072</td> <td>0.6</td> </tr> </tbody> </table>	Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]	AC 85	-12.072	0.6	100	-12.072	0.6	240	-12.072	0.6	264	-12.072	0.6
Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]															
AC 85	-12.072	0.6															
100	-12.072	0.6															
240	-12.072	0.6															
264	-12.072	0.6															
<p>at Back up by Battery</p>		<p>at Back up by Battery</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>DC 20</td> <td>-12.136</td> <td>1.13</td> </tr> <tr> <td>24</td> <td>-12.136</td> <td>1.13</td> </tr> <tr> <td>27</td> <td>-12.136</td> <td>1.13</td> </tr> </tbody> </table>	Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]	DC 20	-12.136	1.13	24	-12.136	1.13	27	-12.136	1.13			
Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]															
DC 20	-12.136	1.13															
24	-12.136	1.13															
27	-12.136	1.13															

Model	eNSP-300P-S20-11																
Item	Line Regulation																
<p>V6:5Vs 1.5A</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>4.949</td> <td>-1.02</td> </tr> <tr> <td>100</td> <td>4.949</td> <td>-1.02</td> </tr> <tr> <td>240</td> <td>4.948</td> <td>-1.04</td> </tr> <tr> <td>264</td> <td>4.948</td> <td>-1.04</td> </tr> </tbody> </table>	Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]	AC 85	4.949	-1.02	100	4.949	-1.02	240	4.948	-1.04	264	4.948	-1.04
Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]															
AC 85	4.949	-1.02															
100	4.949	-1.02															
240	4.948	-1.04															
264	4.948	-1.04															
<p>at Back up by Battery</p>  <p>Legend: Rated Load</p>		<p>at Back up by Battery</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>DC 20</td> <td>4.947</td> <td>-1.06</td> </tr> <tr> <td>24</td> <td>4.947</td> <td>-1.06</td> </tr> <tr> <td>27</td> <td>4.947</td> <td>-1.06</td> </tr> </tbody> </table>	Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]	DC 20	4.947	-1.06	24	4.947	-1.06	27	4.947	-1.06			
Input Voltage [V]	Output Voltage [V]	Fluctuation Value [%]															
DC 20	4.947	-1.06															
24	4.947	-1.06															
27	4.947	-1.06															



Model	eNSP-300P-S20-11																																																														
Item	Input Current (by Load Power)																																																														
<p style="text-align: center;">at AC Input</p> <p style="text-align: center;">at Back up by Battery</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">Input Current [A rms]</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>0.33</td> <td>0.27</td> <td>0.19</td> <td>0.18</td> </tr> <tr> <td>50</td> <td>1.04</td> <td>0.86</td> <td>0.39</td> <td>0.39</td> </tr> <tr> <td>100</td> <td>1.85</td> <td>1.56</td> <td>0.68</td> <td>0.65</td> </tr> <tr> <td>150</td> <td>2.70</td> <td>2.26</td> <td>0.95</td> <td>0.90</td> </tr> <tr> <td>200</td> <td>3.63</td> <td>3.01</td> <td>1.25</td> <td>1.17</td> </tr> </tbody> </table> <p style="text-align: center;">at Back up by Battery</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="3">Input Current [A]</th> </tr> <tr> <th>Input Voltage DC20V</th> <th>Input Voltage DC24V</th> <th>Input Voltage DC27V</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>1.10</td> <td>1.00</td> <td>0.90</td> </tr> <tr> <td>50</td> <td>3.81</td> <td>3.27</td> <td>2.86</td> </tr> <tr> <td>100</td> <td>7.40</td> <td>6.20</td> <td>5.50</td> </tr> <tr> <td>150</td> <td>11.00</td> <td>9.24</td> <td>8.14</td> </tr> <tr> <td>200</td> <td>15.50</td> <td>12.90</td> <td>11.40</td> </tr> </tbody> </table>	Load Power [W]	Input Current [A rms]				Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	5	0.33	0.27	0.19	0.18	50	1.04	0.86	0.39	0.39	100	1.85	1.56	0.68	0.65	150	2.70	2.26	0.95	0.90	200	3.63	3.01	1.25	1.17	Load Power [W]	Input Current [A]			Input Voltage DC20V	Input Voltage DC24V	Input Voltage DC27V	5	1.10	1.00	0.90	50	3.81	3.27	2.86	100	7.40	6.20	5.50	150	11.00	9.24	8.14	200	15.50	12.90	11.40
Load Power [W]	Input Current [A rms]																																																														
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																																																											
5	0.33	0.27	0.19	0.18																																																											
50	1.04	0.86	0.39	0.39																																																											
100	1.85	1.56	0.68	0.65																																																											
150	2.70	2.26	0.95	0.90																																																											
200	3.63	3.01	1.25	1.17																																																											
Load Power [W]	Input Current [A]																																																														
	Input Voltage DC20V	Input Voltage DC24V	Input Voltage DC27V																																																												
5	1.10	1.00	0.90																																																												
50	3.81	3.27	2.86																																																												
100	7.40	6.20	5.50																																																												
150	11.00	9.24	8.14																																																												
200	15.50	12.90	11.40																																																												

Model	eNSP-300P-S20-11																																																														
Item	Input Power (by Load Power)																																																														
<p style="text-align: center;">at AC Input</p> <p style="text-align: center;">at Back up by Battery</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">Input Power [W]</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>26.03</td> <td>25.67</td> <td>25.16</td> <td>25.00</td> </tr> <tr> <td>50</td> <td>82.50</td> <td>81.78</td> <td>78.68</td> <td>78.54</td> </tr> <tr> <td>100</td> <td>150.03</td> <td>148.36</td> <td>143.32</td> <td>142.61</td> </tr> <tr> <td>150</td> <td>222.63</td> <td>217.99</td> <td>207.00</td> <td>205.97</td> </tr> <tr> <td>200</td> <td>301.30</td> <td>292.95</td> <td>275.68</td> <td>275.02</td> </tr> </tbody> </table> <p style="text-align: center;">at Back up by Battery</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="3">Input Power [W]</th> </tr> <tr> <th>Input Voltage DC20V</th> <th>Input Voltage DC24V</th> <th>Input Voltage DC27V</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>22.00</td> <td>24.00</td> <td>24.57</td> </tr> <tr> <td>50</td> <td>76.20</td> <td>78.48</td> <td>78.08</td> </tr> <tr> <td>100</td> <td>148.00</td> <td>148.80</td> <td>150.15</td> </tr> <tr> <td>150</td> <td>220.00</td> <td>221.76</td> <td>222.22</td> </tr> <tr> <td>200</td> <td>310.00</td> <td>309.60</td> <td>311.22</td> </tr> </tbody> </table>	Load Power [W]	Input Power [W]				Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	5	26.03	25.67	25.16	25.00	50	82.50	81.78	78.68	78.54	100	150.03	148.36	143.32	142.61	150	222.63	217.99	207.00	205.97	200	301.30	292.95	275.68	275.02	Load Power [W]	Input Power [W]			Input Voltage DC20V	Input Voltage DC24V	Input Voltage DC27V	5	22.00	24.00	24.57	50	76.20	78.48	78.08	100	148.00	148.80	150.15	150	220.00	221.76	222.22	200	310.00	309.60	311.22
Load Power [W]	Input Power [W]																																																														
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																																																											
5	26.03	25.67	25.16	25.00																																																											
50	82.50	81.78	78.68	78.54																																																											
100	150.03	148.36	143.32	142.61																																																											
150	222.63	217.99	207.00	205.97																																																											
200	301.30	292.95	275.68	275.02																																																											
Load Power [W]	Input Power [W]																																																														
	Input Voltage DC20V	Input Voltage DC24V	Input Voltage DC27V																																																												
5	22.00	24.00	24.57																																																												
50	76.20	78.48	78.08																																																												
100	148.00	148.80	150.15																																																												
150	220.00	221.76	222.22																																																												
200	310.00	309.60	311.22																																																												

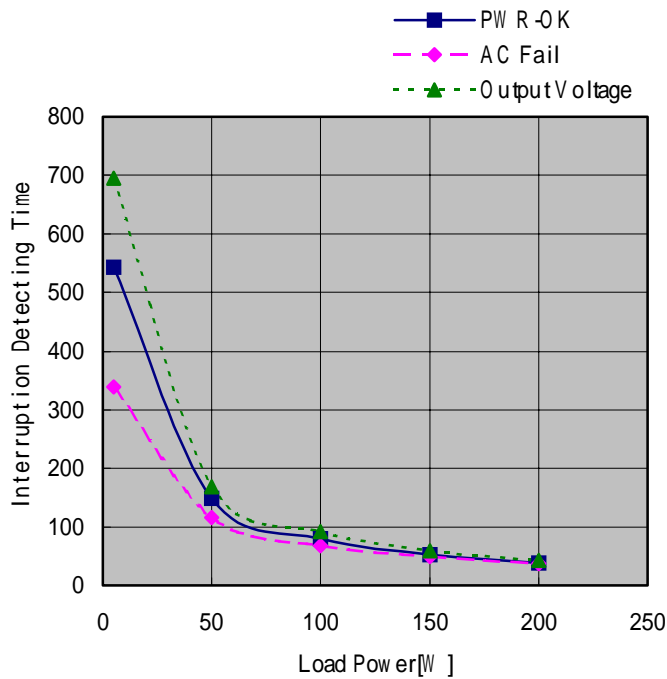
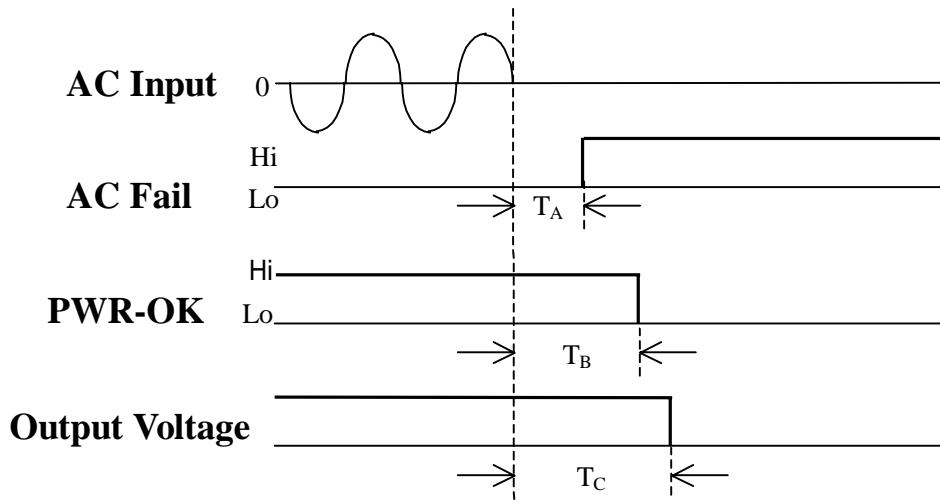
Model	eNSP-300P-S20-11																																	
Item	Efficiency (by Input Voltage)																																	
<p style="text-align: center;">at AC Input</p> <table border="1"> <caption>Data for 'at AC Input' Graph</caption> <thead> <tr> <th>Input Voltage [V]</th> <th>50% Load Efficiency [%]</th> <th>100% Load Efficiency [%]</th> </tr> </thead> <tbody> <tr><td>85</td><td>66.90</td><td>66.28</td></tr> <tr><td>100</td><td>67.70</td><td>68.57</td></tr> <tr><td>240</td><td>70.13</td><td>72.83</td></tr> <tr><td>264</td><td>70.48</td><td>73.00</td></tr> </tbody> </table>		Input Voltage [V]	50% Load Efficiency [%]	100% Load Efficiency [%]	85	66.90	66.28	100	67.70	68.57	240	70.13	72.83	264	70.48	73.00	<p style="text-align: center;">at AC Input</p> <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th colspan="2">Efficiency [%]</th> </tr> <tr> <th>50% Load</th> <th>100% Load</th> </tr> </thead> <tbody> <tr> <td>85</td> <td>66.90</td> <td>66.28</td> </tr> <tr> <td>100</td> <td>67.70</td> <td>68.57</td> </tr> <tr> <td>240</td> <td>70.13</td> <td>72.83</td> </tr> <tr> <td>264</td> <td>70.48</td> <td>73.00</td> </tr> </tbody> </table>	Input Voltage [V]	Efficiency [%]		50% Load	100% Load	85	66.90	66.28	100	67.70	68.57	240	70.13	72.83	264	70.48	73.00
Input Voltage [V]	50% Load Efficiency [%]	100% Load Efficiency [%]																																
85	66.90	66.28																																
100	67.70	68.57																																
240	70.13	72.83																																
264	70.48	73.00																																
Input Voltage [V]	Efficiency [%]																																	
	50% Load	100% Load																																
85	66.90	66.28																																
100	67.70	68.57																																
240	70.13	72.83																																
264	70.48	73.00																																
<p style="text-align: center;">at Back up by Battery</p> <table border="1"> <caption>Data for 'at Back up by Battery' Graph</caption> <thead> <tr> <th>Input Voltage [V]</th> <th>50% Load Efficiency [%]</th> <th>100% Load Efficiency [%]</th> </tr> </thead> <tbody> <tr><td>20</td><td>68.09</td><td>64.90</td></tr> <tr><td>22</td><td>70.13</td><td>65.57</td></tr> <tr><td>24</td><td>67.74</td><td>65.08</td></tr> <tr><td>27</td><td>67.14</td><td>64.62</td></tr> </tbody> </table>		Input Voltage [V]	50% Load Efficiency [%]	100% Load Efficiency [%]	20	68.09	64.90	22	70.13	65.57	24	67.74	65.08	27	67.14	64.62	<p style="text-align: center;">at Back up by Battery</p> <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th colspan="2">Efficiency [%]</th> </tr> <tr> <th>50% Load</th> <th>100% Load</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>68.09</td> <td>64.90</td> </tr> <tr> <td>24</td> <td>67.74</td> <td>65.08</td> </tr> <tr> <td>27</td> <td>67.14</td> <td>64.62</td> </tr> </tbody> </table>	Input Voltage [V]	Efficiency [%]		50% Load	100% Load	20	68.09	64.90	24	67.74	65.08	27	67.14	64.62			
Input Voltage [V]	50% Load Efficiency [%]	100% Load Efficiency [%]																																
20	68.09	64.90																																
22	70.13	65.57																																
24	67.74	65.08																																
27	67.14	64.62																																
Input Voltage [V]	Efficiency [%]																																	
	50% Load	100% Load																																
20	68.09	64.90																																
24	67.74	65.08																																
27	67.14	64.62																																

Model	eNSP-300P-S20-11																														
Item	Efficiency (by Load Power)																														
<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">Efficiency [%]</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>50</td> <td>60.62</td> <td>61.16</td> <td>63.56</td> <td>63.68</td> </tr> <tr> <td>100</td> <td>66.90</td> <td>67.70</td> <td>70.13</td> <td>70.48</td> </tr> <tr> <td>150</td> <td>67.80</td> <td>69.22</td> <td>72.86</td> <td>73.22</td> </tr> <tr> <td>200</td> <td>66.28</td> <td>68.57</td> <td>72.83</td> <td>73.00</td> </tr> </tbody> </table>	Load Power [W]	Efficiency [%]				Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	50	60.62	61.16	63.56	63.68	100	66.90	67.70	70.13	70.48	150	67.80	69.22	72.86	73.22	200	66.28	68.57	72.83	73.00
Load Power [W]	Efficiency [%]																														
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																											
50	60.62	61.16	63.56	63.68																											
100	66.90	67.70	70.13	70.48																											
150	67.80	69.22	72.86	73.22																											
200	66.28	68.57	72.83	73.00																											
<p style="text-align: center;">at Back up by Battery</p>		<p style="text-align: center;">at Back up by Battery</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="3">Efficiency [%]</th> </tr> <tr> <th>Input Voltage DC20V</th> <th>Input Voltage DC24V</th> <th>Input Voltage DC27V</th> </tr> </thead> <tbody> <tr> <td>50</td> <td>65.73</td> <td>63.83</td> <td>64.17</td> </tr> <tr> <td>100</td> <td>68.09</td> <td>67.74</td> <td>67.14</td> </tr> <tr> <td>150</td> <td>68.74</td> <td>68.21</td> <td>68.06</td> </tr> <tr> <td>200</td> <td>64.00</td> <td>65.08</td> <td>64.62</td> </tr> </tbody> </table>	Load Power [W]	Efficiency [%]			Input Voltage DC20V	Input Voltage DC24V	Input Voltage DC27V	50	65.73	63.83	64.17	100	68.09	67.74	67.14	150	68.74	68.21	68.06	200	64.00	65.08	64.62						
Load Power [W]	Efficiency [%]																														
	Input Voltage DC20V	Input Voltage DC24V	Input Voltage DC27V																												
50	65.73	63.83	64.17																												
100	68.09	67.74	67.14																												
150	68.74	68.21	68.06																												
200	64.00	65.08	64.62																												

Model	eNSP-300P-S20-11																														
Item	Power Factor																														
<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">Input Voltage [V]</th> <th colspan="2">Power Factor [%]</th> </tr> <tr> <th>50% Load</th> <th>100% Load</th> </tr> </thead> <tbody> <tr> <td>85</td> <td>95.55</td> <td>97.60</td> </tr> <tr> <td>100</td> <td>94.98</td> <td>97.25</td> </tr> <tr> <td>240</td> <td>88.36</td> <td>91.89</td> </tr> <tr> <td>264</td> <td>83.75</td> <td>89.30</td> </tr> </tbody> </table>	Input Voltage [V]	Power Factor [%]		50% Load	100% Load	85	95.55	97.60	100	94.98	97.25	240	88.36	91.89	264	83.75	89.30												
Input Voltage [V]	Power Factor [%]																														
	50% Load	100% Load																													
85	95.55	97.60																													
100	94.98	97.25																													
240	88.36	91.89																													
264	83.75	89.30																													
<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">Power Factor [%]</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>50</td> <td>93.65</td> <td>94.72</td> <td>83.35</td> <td>76.75</td> </tr> <tr> <td>100</td> <td>95.55</td> <td>94.98</td> <td>88.36</td> <td>83.75</td> </tr> <tr> <td>150</td> <td>96.93</td> <td>96.33</td> <td>90.36</td> <td>87.00</td> </tr> <tr> <td>200</td> <td>97.60</td> <td>97.25</td> <td>91.89</td> <td>89.30</td> </tr> </tbody> </table>	Load Power [W]	Power Factor [%]				Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	50	93.65	94.72	83.35	76.75	100	95.55	94.98	88.36	83.75	150	96.93	96.33	90.36	87.00	200	97.60	97.25	91.89	89.30
Load Power [W]	Power Factor [%]																														
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																											
50	93.65	94.72	83.35	76.75																											
100	95.55	94.98	88.36	83.75																											
150	96.93	96.33	90.36	87.00																											
200	97.60	97.25	91.89	89.30																											

Model	eNSP-300P-S20-11
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 <sub>A</sub>	PWR-OK T <sub>B</sub>	DC Output T <sub>C</sub>
5	339	543	695
50	116	149	169
100	68	80	92
150	49	53	59
200	37	38	43

Model	eNSP-300P-S20-11																																																								
Item	Load Regulation																																																								
V1:5V 14A																																																									
<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>5</td><td>1.18</td><td>1.22</td><td>1.08</td><td>1.08</td></tr> <tr><td>50</td><td>0.94</td><td>0.94</td><td>0.92</td><td>0.92</td></tr> <tr><td>100</td><td>0.28</td><td>0.38</td><td>0.48</td><td>0.48</td></tr> <tr><td>150</td><td>0.14</td><td>0.10</td><td>0.06</td><td>0.04</td></tr> <tr><td>200</td><td>-0.34</td><td>-0.40</td><td>-0.46</td><td>-0.46</td></tr> <tr><td>300</td><td>-1.34</td><td>-1.38</td><td>-1.76</td><td>-1.52</td></tr> </tbody> </table>	Load Power [W]	Fluctuation Value [%]				Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	5	1.18	1.22	1.08	1.08	50	0.94	0.94	0.92	0.92	100	0.28	0.38	0.48	0.48	150	0.14	0.10	0.06	0.04	200	-0.34	-0.40	-0.46	-0.46	300	-1.34	-1.38	-1.76	-1.52																
Load Power [W]	Fluctuation Value [%]																																																								
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																																																					
5	1.18	1.22	1.08	1.08																																																					
50	0.94	0.94	0.92	0.92																																																					
100	0.28	0.38	0.48	0.48																																																					
150	0.14	0.10	0.06	0.04																																																					
200	-0.34	-0.40	-0.46	-0.46																																																					
300	-1.34	-1.38	-1.76	-1.52																																																					
<p style="text-align: center;">at Back up by Battery</p>		<p style="text-align: center;">at Load Condition</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="6">Load Current [A]</th> </tr> <tr> <th>5V</th> <th>3.3V</th> <th>12V</th> <th>-5V</th> <th>-12V</th> <th>5Vs</th> </tr> </thead> <tbody> <tr><td>5</td><td>1.0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>50</td><td>3.5</td><td>2.4</td><td>1.7</td><td>0.07</td><td>0.2</td><td>0.4</td></tr> <tr><td>100</td><td>7.0</td><td>4.7</td><td>3.5</td><td>0.15</td><td>0.4</td><td>0.75</td></tr> <tr><td>150</td><td>10.5</td><td>7.0</td><td>5.3</td><td>0.2</td><td>0.6</td><td>1.1</td></tr> <tr><td>200</td><td>15.0</td><td>9.4</td><td>7.0</td><td>0.3</td><td>0.8</td><td>1.5</td></tr> <tr><td>300</td><td>30.0</td><td>9.0</td><td>8.3</td><td>0.3</td><td>0.8</td><td>2.5</td></tr> </tbody> </table>	Load Power [W]	Load Current [A]						5V	3.3V	12V	-5V	-12V	5Vs	5	1.0	0	0	0	0	0	50	3.5	2.4	1.7	0.07	0.2	0.4	100	7.0	4.7	3.5	0.15	0.4	0.75	150	10.5	7.0	5.3	0.2	0.6	1.1	200	15.0	9.4	7.0	0.3	0.8	1.5	300	30.0	9.0	8.3	0.3	0.8	2.5
Load Power [W]	Load Current [A]																																																								
	5V	3.3V	12V	-5V	-12V	5Vs																																																			
5	1.0	0	0	0	0	0																																																			
50	3.5	2.4	1.7	0.07	0.2	0.4																																																			
100	7.0	4.7	3.5	0.15	0.4	0.75																																																			
150	10.5	7.0	5.3	0.2	0.6	1.1																																																			
200	15.0	9.4	7.0	0.3	0.8	1.5																																																			
300	30.0	9.0	8.3	0.3	0.8	2.5																																																			
<p style="text-align: center;">at Back up by Battery</p>		<p style="text-align: center;">at Back up by Battery</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="3">Fluctuation Value [%]</th> </tr> <tr> <th>Input Voltage DC20V</th> <th>Input Voltage DC24V</th> <th>Input Voltage DC27V</th> </tr> </thead> <tbody> <tr><td>5</td><td>1.44</td><td>1.50</td><td>1.56</td></tr> <tr><td>50</td><td>1.10</td><td>1.10</td><td>1.12</td></tr> <tr><td>100</td><td>0.64</td><td>0.68</td><td>0.70</td></tr> <tr><td>150</td><td>0.32</td><td>0.36</td><td>0.34</td></tr> <tr><td>200</td><td>-0.32</td><td>-0.36</td><td>-0.36</td></tr> <tr><td>300</td><td>-1.46</td><td>-1.68</td><td>-</td></tr> </tbody> </table>	Load Power [W]	Fluctuation Value [%]			Input Voltage DC20V	Input Voltage DC24V	Input Voltage DC27V	5	1.44	1.50	1.56	50	1.10	1.10	1.12	100	0.64	0.68	0.70	150	0.32	0.36	0.34	200	-0.32	-0.36	-0.36	300	-1.46	-1.68	-																								
Load Power [W]	Fluctuation Value [%]																																																								
	Input Voltage DC20V	Input Voltage DC24V	Input Voltage DC27V																																																						
5	1.44	1.50	1.56																																																						
50	1.10	1.10	1.12																																																						
100	0.64	0.68	0.70																																																						
150	0.32	0.36	0.34																																																						
200	-0.32	-0.36	-0.36																																																						
300	-1.46	-1.68	-																																																						
<p style="text-align: center;">at Load Condition</p>		<p style="text-align: center;">at Load Condition</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="6">Load Current [A]</th> </tr> <tr> <th>5V</th> <th>3.3V</th> <th>12V</th> <th>-5V</th> <th>-12V</th> <th>5Vs</th> </tr> </thead> <tbody> <tr><td>5</td><td>1.0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>50</td><td>3.5</td><td>2.4</td><td>1.7</td><td>0.07</td><td>0.2</td><td>0.4</td></tr> <tr><td>100</td><td>7.0</td><td>4.7</td><td>3.5</td><td>0.15</td><td>0.4</td><td>0.75</td></tr> <tr><td>150</td><td>10.5</td><td>7.0</td><td>5.3</td><td>0.2</td><td>0.6</td><td>1.1</td></tr> <tr><td>200</td><td>15.0</td><td>9.4</td><td>7.0</td><td>0.3</td><td>0.8</td><td>1.5</td></tr> <tr><td>300</td><td>30.0</td><td>9.0</td><td>8.3</td><td>0.3</td><td>0.8</td><td>2.5</td></tr> </tbody> </table>	Load Power [W]	Load Current [A]						5V	3.3V	12V	-5V	-12V	5Vs	5	1.0	0	0	0	0	0	50	3.5	2.4	1.7	0.07	0.2	0.4	100	7.0	4.7	3.5	0.15	0.4	0.75	150	10.5	7.0	5.3	0.2	0.6	1.1	200	15.0	9.4	7.0	0.3	0.8	1.5	300	30.0	9.0	8.3	0.3	0.8	2.5
Load Power [W]	Load Current [A]																																																								
	5V	3.3V	12V	-5V	-12V	5Vs																																																			
5	1.0	0	0	0	0	0																																																			
50	3.5	2.4	1.7	0.07	0.2	0.4																																																			
100	7.0	4.7	3.5	0.15	0.4	0.75																																																			
150	10.5	7.0	5.3	0.2	0.6	1.1																																																			
200	15.0	9.4	7.0	0.3	0.8	1.5																																																			
300	30.0	9.0	8.3	0.3	0.8	2.5																																																			

Model	eNSP-300P-S20-11																																																																																																																																																																																					
Item	Load Regulation																																																																																																																																																																																					
V2: 3.3V 9.4A																																																																																																																																																																																						
<p style="text-align: center;">at AC Input</p> <p style="text-align: center;">at Back up by Battery</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>5</td><td>0.55</td><td>0.55</td><td>0.55</td><td>0.55</td></tr> <tr><td>50</td><td>0.36</td><td>0.39</td><td>0.39</td><td>0.39</td></tr> <tr><td>100</td><td>0.21</td><td>0.21</td><td>0.21</td><td>0.21</td></tr> <tr><td>150</td><td>0.06</td><td>0.06</td><td>0.06</td><td>0.06</td></tr> <tr><td>200</td><td>-0.09</td><td>-0.12</td><td>-0.12</td><td>-0.12</td></tr> <tr><td>300</td><td>-1.73</td><td>-1.73</td><td>-1.70</td><td>-1.76</td></tr> </tbody> </table> <p style="text-align: center;">at Load Condition</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="6">Load Current [A]</th> </tr> <tr> <th>5V</th> <th>3.3V</th> <th>12V</th> <th>-5V</th> <th>-12V</th> <th>5Vs</th> </tr> </thead> <tbody> <tr><td>5</td><td>1.0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>50</td><td>3.5</td><td>2.4</td><td>1.7</td><td>0.07</td><td>0.2</td><td>0.4</td></tr> <tr><td>100</td><td>7.0</td><td>4.7</td><td>3.5</td><td>0.15</td><td>0.4</td><td>0.75</td></tr> <tr><td>150</td><td>10.5</td><td>7.0</td><td>5.3</td><td>0.2</td><td>0.6</td><td>1.1</td></tr> <tr><td>200</td><td>15.0</td><td>9.4</td><td>7.0</td><td>0.3</td><td>0.8</td><td>1.5</td></tr> <tr><td>300</td><td>17.5</td><td>28.0</td><td>8.3</td><td>0.3</td><td>0.8</td><td>2.5</td></tr> </tbody> </table> <p style="text-align: center;">at Back up by Battery</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="3">Fluctuation Value [%]</th> </tr> <tr> <th>Input Voltage DC20V</th> <th>Input Voltage DC24V</th> <th>Input Voltage DC27V</th> </tr> </thead> <tbody> <tr><td>5</td><td>1.15</td><td>1.15</td><td>1.15</td></tr> <tr><td>50</td><td>0.45</td><td>0.45</td><td>0.45</td></tr> <tr><td>100</td><td>0.61</td><td>0.61</td><td>0.61</td></tr> <tr><td>150</td><td>0.18</td><td>0.18</td><td>0.18</td></tr> <tr><td>200</td><td>-0.03</td><td>-0.03</td><td>-0.03</td></tr> <tr><td>300</td><td>-1.67</td><td>-1.67</td><td>-</td></tr> </tbody> </table> <p style="text-align: center;">at Load Condition</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="6">Load Current [A]</th> </tr> <tr> <th>5V</th> <th>3.3V</th> <th>12V</th> <th>-5V</th> <th>-12V</th> <th>5Vs</th> </tr> </thead> <tbody> <tr><td>5</td><td>1.0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>50</td><td>3.5</td><td>2.4</td><td>1.7</td><td>0.07</td><td>0.2</td><td>0.4</td></tr> <tr><td>100</td><td>7.0</td><td>4.7</td><td>3.5</td><td>0.15</td><td>0.4</td><td>0.75</td></tr> <tr><td>150</td><td>10.5</td><td>7</td><td>5.3</td><td>0.2</td><td>0.6</td><td>1.1</td></tr> <tr><td>200</td><td>15.0</td><td>9.4</td><td>7.0</td><td>0.3</td><td>0.8</td><td>1.5</td></tr> <tr><td>300</td><td>17.5</td><td>28</td><td>8.3</td><td>0.3</td><td>0.8</td><td>2.5</td></tr> </tbody> </table>	Load Power [W]	Fluctuation Value [%]				Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	5	0.55	0.55	0.55	0.55	50	0.36	0.39	0.39	0.39	100	0.21	0.21	0.21	0.21	150	0.06	0.06	0.06	0.06	200	-0.09	-0.12	-0.12	-0.12	300	-1.73	-1.73	-1.70	-1.76	Load Power [W]	Load Current [A]						5V	3.3V	12V	-5V	-12V	5Vs	5	1.0	0	0	0	0	0	50	3.5	2.4	1.7	0.07	0.2	0.4	100	7.0	4.7	3.5	0.15	0.4	0.75	150	10.5	7.0	5.3	0.2	0.6	1.1	200	15.0	9.4	7.0	0.3	0.8	1.5	300	17.5	28.0	8.3	0.3	0.8	2.5	Load Power [W]	Fluctuation Value [%]			Input Voltage DC20V	Input Voltage DC24V	Input Voltage DC27V	5	1.15	1.15	1.15	50	0.45	0.45	0.45	100	0.61	0.61	0.61	150	0.18	0.18	0.18	200	-0.03	-0.03	-0.03	300	-1.67	-1.67	-	Load Power [W]	Load Current [A]						5V	3.3V	12V	-5V	-12V	5Vs	5	1.0	0	0	0	0	0	50	3.5	2.4	1.7	0.07	0.2	0.4	100	7.0	4.7	3.5	0.15	0.4	0.75	150	10.5	7	5.3	0.2	0.6	1.1	200	15.0	9.4	7.0	0.3	0.8	1.5	300	17.5	28	8.3	0.3	0.8	2.5
Load Power [W]	Fluctuation Value [%]																																																																																																																																																																																					
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																																																																																																																																																																																		
5	0.55	0.55	0.55	0.55																																																																																																																																																																																		
50	0.36	0.39	0.39	0.39																																																																																																																																																																																		
100	0.21	0.21	0.21	0.21																																																																																																																																																																																		
150	0.06	0.06	0.06	0.06																																																																																																																																																																																		
200	-0.09	-0.12	-0.12	-0.12																																																																																																																																																																																		
300	-1.73	-1.73	-1.70	-1.76																																																																																																																																																																																		
Load Power [W]	Load Current [A]																																																																																																																																																																																					
	5V	3.3V	12V	-5V	-12V	5Vs																																																																																																																																																																																
5	1.0	0	0	0	0	0																																																																																																																																																																																
50	3.5	2.4	1.7	0.07	0.2	0.4																																																																																																																																																																																
100	7.0	4.7	3.5	0.15	0.4	0.75																																																																																																																																																																																
150	10.5	7.0	5.3	0.2	0.6	1.1																																																																																																																																																																																
200	15.0	9.4	7.0	0.3	0.8	1.5																																																																																																																																																																																
300	17.5	28.0	8.3	0.3	0.8	2.5																																																																																																																																																																																
Load Power [W]	Fluctuation Value [%]																																																																																																																																																																																					
	Input Voltage DC20V	Input Voltage DC24V	Input Voltage DC27V																																																																																																																																																																																			
5	1.15	1.15	1.15																																																																																																																																																																																			
50	0.45	0.45	0.45																																																																																																																																																																																			
100	0.61	0.61	0.61																																																																																																																																																																																			
150	0.18	0.18	0.18																																																																																																																																																																																			
200	-0.03	-0.03	-0.03																																																																																																																																																																																			
300	-1.67	-1.67	-																																																																																																																																																																																			
Load Power [W]	Load Current [A]																																																																																																																																																																																					
	5V	3.3V	12V	-5V	-12V	5Vs																																																																																																																																																																																
5	1.0	0	0	0	0	0																																																																																																																																																																																
50	3.5	2.4	1.7	0.07	0.2	0.4																																																																																																																																																																																
100	7.0	4.7	3.5	0.15	0.4	0.75																																																																																																																																																																																
150	10.5	7	5.3	0.2	0.6	1.1																																																																																																																																																																																
200	15.0	9.4	7.0	0.3	0.8	1.5																																																																																																																																																																																
300	17.5	28	8.3	0.3	0.8	2.5																																																																																																																																																																																



Model	eNSP-300P-S20-11																																																																																																																																																																																					
Item	Load Regulation																																																																																																																																																																																					
V3:12V 7A																																																																																																																																																																																						
<p style="text-align: center;">at AC Input</p> <p style="text-align: center;">at Back up by Battery</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>5</td><td>2.06</td><td>2.10</td><td>2.06</td><td>2.17</td></tr> <tr><td>50</td><td>-3.72</td><td>-3.72</td><td>-3.72</td><td>-3.72</td></tr> <tr><td>100</td><td>-3.77</td><td>-3.70</td><td>-3.60</td><td>-3.60</td></tr> <tr><td>150</td><td>-3.23</td><td>-3.27</td><td>-3.35</td><td>-3.35</td></tr> <tr><td>200</td><td>-2.82</td><td>-2.88</td><td>-2.94</td><td>-2.94</td></tr> <tr><td>300</td><td>-5.86</td><td>-5.97</td><td>-6.06</td><td>-6.20</td></tr> </tbody> </table> <p style="text-align: center;">at Load Condition</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="6">Load Current [A]</th> </tr> <tr> <th>5V</th> <th>3.3V</th> <th>12V</th> <th>-5V</th> <th>-12V</th> <th>5Vs</th> </tr> </thead> <tbody> <tr><td>5</td><td>1.0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>50</td><td>3.5</td><td>2.4</td><td>1.7</td><td>0.07</td><td>0.2</td><td>0.4</td></tr> <tr><td>100</td><td>7.0</td><td>4.7</td><td>3.5</td><td>0.15</td><td>0.4</td><td>0.75</td></tr> <tr><td>150</td><td>10.5</td><td>7.0</td><td>5.3</td><td>0.2</td><td>0.6</td><td>1.1</td></tr> <tr><td>200</td><td>15</td><td>9.4</td><td>7.0</td><td>0.3</td><td>0.8</td><td>1.5</td></tr> <tr><td>300</td><td>14.0</td><td>9.1</td><td>15.0</td><td>0.3</td><td>0.8</td><td>2.5</td></tr> </tbody> </table> <p style="text-align: center;">at Back up by Battery</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="3">Fluctuation Value [%]</th> </tr> <tr> <th>Input Voltage DC20V</th> <th>Input Voltage DC24V</th> <th>Input Voltage DC27V</th> </tr> </thead> <tbody> <tr><td>5</td><td>-1.89</td><td>-0.77</td><td>0.38</td></tr> <tr><td>50</td><td>-3.58</td><td>-3.56</td><td>-3.54</td></tr> <tr><td>100</td><td>-3.20</td><td>-3.18</td><td>-3.17</td></tr> <tr><td>150</td><td>-3.02</td><td>-3.02</td><td>-3.03</td></tr> <tr><td>200</td><td>-2.68</td><td>-2.61</td><td>-2.73</td></tr> <tr><td>300</td><td>-6.45</td><td>-6.43</td><td>-</td></tr> </tbody> </table> <p style="text-align: center;">at Load Condition</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="6">Load Current [A]</th> </tr> <tr> <th>5V</th> <th>3.3V</th> <th>12V</th> <th>-5V</th> <th>-12V</th> <th>5Vs</th> </tr> </thead> <tbody> <tr><td>5</td><td>1.0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>50</td><td>3.5</td><td>2.4</td><td>1.7</td><td>0.07</td><td>0.2</td><td>0.4</td></tr> <tr><td>100</td><td>7.0</td><td>4.7</td><td>3.5</td><td>0.15</td><td>0.4</td><td>0.75</td></tr> <tr><td>150</td><td>10.5</td><td>7.0</td><td>5.3</td><td>0.2</td><td>0.6</td><td>1.1</td></tr> <tr><td>200</td><td>15.0</td><td>9.4</td><td>7.0</td><td>0.3</td><td>0.8</td><td>1.5</td></tr> <tr><td>300</td><td>14.0</td><td>9.1</td><td>15.0</td><td>0.3</td><td>0.8</td><td>2.5</td></tr> </tbody> </table>	Load Power [W]	Fluctuation Value [%]				Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	5	2.06	2.10	2.06	2.17	50	-3.72	-3.72	-3.72	-3.72	100	-3.77	-3.70	-3.60	-3.60	150	-3.23	-3.27	-3.35	-3.35	200	-2.82	-2.88	-2.94	-2.94	300	-5.86	-5.97	-6.06	-6.20	Load Power [W]	Load Current [A]						5V	3.3V	12V	-5V	-12V	5Vs	5	1.0	0	0	0	0	0	50	3.5	2.4	1.7	0.07	0.2	0.4	100	7.0	4.7	3.5	0.15	0.4	0.75	150	10.5	7.0	5.3	0.2	0.6	1.1	200	15	9.4	7.0	0.3	0.8	1.5	300	14.0	9.1	15.0	0.3	0.8	2.5	Load Power [W]	Fluctuation Value [%]			Input Voltage DC20V	Input Voltage DC24V	Input Voltage DC27V	5	-1.89	-0.77	0.38	50	-3.58	-3.56	-3.54	100	-3.20	-3.18	-3.17	150	-3.02	-3.02	-3.03	200	-2.68	-2.61	-2.73	300	-6.45	-6.43	-	Load Power [W]	Load Current [A]						5V	3.3V	12V	-5V	-12V	5Vs	5	1.0	0	0	0	0	0	50	3.5	2.4	1.7	0.07	0.2	0.4	100	7.0	4.7	3.5	0.15	0.4	0.75	150	10.5	7.0	5.3	0.2	0.6	1.1	200	15.0	9.4	7.0	0.3	0.8	1.5	300	14.0	9.1	15.0	0.3	0.8	2.5
Load Power [W]	Fluctuation Value [%]																																																																																																																																																																																					
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																																																																																																																																																																																		
5	2.06	2.10	2.06	2.17																																																																																																																																																																																		
50	-3.72	-3.72	-3.72	-3.72																																																																																																																																																																																		
100	-3.77	-3.70	-3.60	-3.60																																																																																																																																																																																		
150	-3.23	-3.27	-3.35	-3.35																																																																																																																																																																																		
200	-2.82	-2.88	-2.94	-2.94																																																																																																																																																																																		
300	-5.86	-5.97	-6.06	-6.20																																																																																																																																																																																		
Load Power [W]	Load Current [A]																																																																																																																																																																																					
	5V	3.3V	12V	-5V	-12V	5Vs																																																																																																																																																																																
5	1.0	0	0	0	0	0																																																																																																																																																																																
50	3.5	2.4	1.7	0.07	0.2	0.4																																																																																																																																																																																
100	7.0	4.7	3.5	0.15	0.4	0.75																																																																																																																																																																																
150	10.5	7.0	5.3	0.2	0.6	1.1																																																																																																																																																																																
200	15	9.4	7.0	0.3	0.8	1.5																																																																																																																																																																																
300	14.0	9.1	15.0	0.3	0.8	2.5																																																																																																																																																																																
Load Power [W]	Fluctuation Value [%]																																																																																																																																																																																					
	Input Voltage DC20V	Input Voltage DC24V	Input Voltage DC27V																																																																																																																																																																																			
5	-1.89	-0.77	0.38																																																																																																																																																																																			
50	-3.58	-3.56	-3.54																																																																																																																																																																																			
100	-3.20	-3.18	-3.17																																																																																																																																																																																			
150	-3.02	-3.02	-3.03																																																																																																																																																																																			
200	-2.68	-2.61	-2.73																																																																																																																																																																																			
300	-6.45	-6.43	-																																																																																																																																																																																			
Load Power [W]	Load Current [A]																																																																																																																																																																																					
	5V	3.3V	12V	-5V	-12V	5Vs																																																																																																																																																																																
5	1.0	0	0	0	0	0																																																																																																																																																																																
50	3.5	2.4	1.7	0.07	0.2	0.4																																																																																																																																																																																
100	7.0	4.7	3.5	0.15	0.4	0.75																																																																																																																																																																																
150	10.5	7.0	5.3	0.2	0.6	1.1																																																																																																																																																																																
200	15.0	9.4	7.0	0.3	0.8	1.5																																																																																																																																																																																
300	14.0	9.1	15.0	0.3	0.8	2.5																																																																																																																																																																																

Model	eNSP-300P-S20-11																																																
Item	Load Regulation																																																
V4: -5V 0.3A																																																	
<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>5</td><td>-0.40</td><td>-0.44</td><td>-0.46</td><td>-0.46</td></tr> <tr><td>50</td><td>-0.22</td><td>-0.22</td><td>-0.22</td><td>-0.22</td></tr> <tr><td>100</td><td>0.08</td><td>0.06</td><td>0.04</td><td>0.04</td></tr> <tr><td>150</td><td>0.26</td><td>0.26</td><td>0.28</td><td>0.28</td></tr> <tr><td>200</td><td>0.44</td><td>0.44</td><td>0.44</td><td>0.44</td></tr> </tbody> </table>		Load Power [W]	Fluctuation Value [%]				Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	5	-0.40	-0.44	-0.46	-0.46	50	-0.22	-0.22	-0.22	-0.22	100	0.08	0.06	0.04	0.04	150	0.26	0.26	0.28	0.28	200	0.44	0.44	0.44	0.44														
Load Power [W]	Fluctuation Value [%]																																																
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																																													
5	-0.40	-0.44	-0.46	-0.46																																													
50	-0.22	-0.22	-0.22	-0.22																																													
100	0.08	0.06	0.04	0.04																																													
150	0.26	0.26	0.28	0.28																																													
200	0.44	0.44	0.44	0.44																																													
<p style="text-align: center;">at Load Condition</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="6">Load Current [A]</th> </tr> <tr> <th>5V</th> <th>3.3V</th> <th>12V</th> <th>-5V</th> <th>-12V</th> <th>5Vs</th> </tr> </thead> <tbody> <tr><td>5</td><td>1.0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>50</td><td>3.5</td><td>2.4</td><td>1.7</td><td>0.07</td><td>0.2</td><td>0.4</td></tr> <tr><td>100</td><td>7.0</td><td>4.7</td><td>3.5</td><td>0.15</td><td>0.4</td><td>0.75</td></tr> <tr><td>150</td><td>10.5</td><td>7.0</td><td>5.3</td><td>0.2</td><td>0.6</td><td>1.1</td></tr> <tr><td>200</td><td>15</td><td>9.4</td><td>7.0</td><td>0.3</td><td>0.8</td><td>1.5</td></tr> </tbody> </table>		Load Power [W]	Load Current [A]						5V	3.3V	12V	-5V	-12V	5Vs	5	1.0	0	0	0	0	0	50	3.5	2.4	1.7	0.07	0.2	0.4	100	7.0	4.7	3.5	0.15	0.4	0.75	150	10.5	7.0	5.3	0.2	0.6	1.1	200	15	9.4	7.0	0.3	0.8	1.5
Load Power [W]	Load Current [A]																																																
	5V	3.3V	12V	-5V	-12V	5Vs																																											
5	1.0	0	0	0	0	0																																											
50	3.5	2.4	1.7	0.07	0.2	0.4																																											
100	7.0	4.7	3.5	0.15	0.4	0.75																																											
150	10.5	7.0	5.3	0.2	0.6	1.1																																											
200	15	9.4	7.0	0.3	0.8	1.5																																											
<p style="text-align: center;">at Back up by Battery</p> <p style="text-align: center;">at Back up by Battery</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="3">Fluctuation Value [%]</th> </tr> <tr> <th>Input Voltage DC20V</th> <th>Input Voltage DC24V</th> <th>Input Voltage DC27V</th> </tr> </thead> <tbody> <tr><td>5</td><td>-0.44</td><td>-0.48</td><td>-0.48</td></tr> <tr><td>50</td><td>-0.28</td><td>-0.28</td><td>-0.26</td></tr> <tr><td>100</td><td>-0.64</td><td>-0.62</td><td>-0.62</td></tr> <tr><td>150</td><td>0.14</td><td>0.14</td><td>0.14</td></tr> <tr><td>200</td><td>0.34</td><td>0.34</td><td>0.34</td></tr> </tbody> </table>		Load Power [W]	Fluctuation Value [%]			Input Voltage DC20V	Input Voltage DC24V	Input Voltage DC27V	5	-0.44	-0.48	-0.48	50	-0.28	-0.28	-0.26	100	-0.64	-0.62	-0.62	150	0.14	0.14	0.14	200	0.34	0.34	0.34																					
Load Power [W]	Fluctuation Value [%]																																																
	Input Voltage DC20V	Input Voltage DC24V	Input Voltage DC27V																																														
5	-0.44	-0.48	-0.48																																														
50	-0.28	-0.28	-0.26																																														
100	-0.64	-0.62	-0.62																																														
150	0.14	0.14	0.14																																														
200	0.34	0.34	0.34																																														
<p style="text-align: center;">at Load Condition</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="6">Load Current [A]</th> </tr> <tr> <th>5V</th> <th>3.3V</th> <th>12V</th> <th>-5V</th> <th>-12V</th> <th>5Vs</th> </tr> </thead> <tbody> <tr><td>5</td><td>1.0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>50</td><td>3.5</td><td>2.4</td><td>1.7</td><td>0.07</td><td>0.2</td><td>0.4</td></tr> <tr><td>100</td><td>7.0</td><td>4.7</td><td>3.5</td><td>0.15</td><td>0.4</td><td>0.75</td></tr> <tr><td>150</td><td>10.5</td><td>7.0</td><td>5.3</td><td>0.2</td><td>0.6</td><td>1.1</td></tr> <tr><td>200</td><td>15</td><td>9.4</td><td>7.0</td><td>0.3</td><td>0.8</td><td>1.5</td></tr> </tbody> </table>		Load Power [W]	Load Current [A]						5V	3.3V	12V	-5V	-12V	5Vs	5	1.0	0	0	0	0	0	50	3.5	2.4	1.7	0.07	0.2	0.4	100	7.0	4.7	3.5	0.15	0.4	0.75	150	10.5	7.0	5.3	0.2	0.6	1.1	200	15	9.4	7.0	0.3	0.8	1.5
Load Power [W]	Load Current [A]																																																
	5V	3.3V	12V	-5V	-12V	5Vs																																											
5	1.0	0	0	0	0	0																																											
50	3.5	2.4	1.7	0.07	0.2	0.4																																											
100	7.0	4.7	3.5	0.15	0.4	0.75																																											
150	10.5	7.0	5.3	0.2	0.6	1.1																																											
200	15	9.4	7.0	0.3	0.8	1.5																																											

Model	eNSP-300P-S20-11																																																																																																																																																														
Item	Load Regulation																																																																																																																																																														
V5: -12V 0.8A																																																																																																																																																															
<p style="text-align: center;">at AC Input</p> <p style="text-align: center;">at Back up by Battery</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>5</td> <td>0.36</td> <td>0.33</td> <td>0.36</td> <td>0.36</td> </tr> <tr> <td>50</td> <td>0.41</td> <td>0.41</td> <td>0.41</td> <td>0.41</td> </tr> <tr> <td>100</td> <td>0.52</td> <td>0.51</td> <td>0.50</td> <td>0.50</td> </tr> <tr> <td>150</td> <td>0.58</td> <td>0.58</td> <td>0.58</td> <td>0.58</td> </tr> <tr> <td>200</td> <td>0.60</td> <td>0.60</td> <td>0.60</td> <td>0.60</td> </tr> </tbody> </table> <p style="text-align: center;">at Load Condition</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="6">Load Current [A]</th> </tr> <tr> <th>5V</th> <th>3.3V</th> <th>12V</th> <th>-5V</th> <th>-12V</th> <th>5Vs</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>1.0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>50</td> <td>3.5</td> <td>2.4</td> <td>1.7</td> <td>0.07</td> <td>0.2</td> <td>0.4</td> </tr> <tr> <td>100</td> <td>7.0</td> <td>4.7</td> <td>3.5</td> <td>0.15</td> <td>0.4</td> <td>0.75</td> </tr> <tr> <td>150</td> <td>10.5</td> <td>7.0</td> <td>5.3</td> <td>0.2</td> <td>0.6</td> <td>1.1</td> </tr> <tr> <td>200</td> <td>15</td> <td>9.4</td> <td>7.0</td> <td>0.3</td> <td>0.8</td> <td>1.5</td> </tr> </tbody> </table> <p style="text-align: center;">at Back up by Battery</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="3">Fluctuation Value [%]</th> </tr> <tr> <th>Input Voltage DC20V</th> <th>Input Voltage DC24V</th> <th>Input Voltage DC27V</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>0.34</td> <td>0.33</td> <td>0.32</td> </tr> <tr> <td>50</td> <td>0.93</td> <td>0.93</td> <td>0.93</td> </tr> <tr> <td>100</td> <td>0.52</td> <td>0.52</td> <td>0.52</td> </tr> <tr> <td>150</td> <td>1.08</td> <td>1.10</td> <td>1.10</td> </tr> <tr> <td>200</td> <td>1.13</td> <td>1.13</td> <td>1.13</td> </tr> </tbody> </table> <p style="text-align: center;">at Load Condition</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="6">Load Current [A]</th> </tr> <tr> <th>5V</th> <th>3.3V</th> <th>12V</th> <th>-5V</th> <th>-12V</th> <th>5Vs</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>1.0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>50</td> <td>3.5</td> <td>2.4</td> <td>1.7</td> <td>0.07</td> <td>0.2</td> <td>0.4</td> </tr> <tr> <td>100</td> <td>7.0</td> <td>4.7</td> <td>3.5</td> <td>0.15</td> <td>0.4</td> <td>0.75</td> </tr> <tr> <td>150</td> <td>10.5</td> <td>7.0</td> <td>5.3</td> <td>0.2</td> <td>0.6</td> <td>1.1</td> </tr> <tr> <td>200</td> <td>15</td> <td>9.4</td> <td>7.0</td> <td>0.3</td> <td>0.8</td> <td>1.5</td> </tr> </tbody> </table>	Load Power [W]	Fluctuation Value [%]				Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	5	0.36	0.33	0.36	0.36	50	0.41	0.41	0.41	0.41	100	0.52	0.51	0.50	0.50	150	0.58	0.58	0.58	0.58	200	0.60	0.60	0.60	0.60	Load Power [W]	Load Current [A]						5V	3.3V	12V	-5V	-12V	5Vs	5	1.0	0	0	0	0	0	50	3.5	2.4	1.7	0.07	0.2	0.4	100	7.0	4.7	3.5	0.15	0.4	0.75	150	10.5	7.0	5.3	0.2	0.6	1.1	200	15	9.4	7.0	0.3	0.8	1.5	Load Power [W]	Fluctuation Value [%]			Input Voltage DC20V	Input Voltage DC24V	Input Voltage DC27V	5	0.34	0.33	0.32	50	0.93	0.93	0.93	100	0.52	0.52	0.52	150	1.08	1.10	1.10	200	1.13	1.13	1.13	Load Power [W]	Load Current [A]						5V	3.3V	12V	-5V	-12V	5Vs	5	1.0	0	0	0	0	0	50	3.5	2.4	1.7	0.07	0.2	0.4	100	7.0	4.7	3.5	0.15	0.4	0.75	150	10.5	7.0	5.3	0.2	0.6	1.1	200	15	9.4	7.0	0.3	0.8	1.5
Load Power [W]	Fluctuation Value [%]																																																																																																																																																														
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																																																																																																																																																											
5	0.36	0.33	0.36	0.36																																																																																																																																																											
50	0.41	0.41	0.41	0.41																																																																																																																																																											
100	0.52	0.51	0.50	0.50																																																																																																																																																											
150	0.58	0.58	0.58	0.58																																																																																																																																																											
200	0.60	0.60	0.60	0.60																																																																																																																																																											
Load Power [W]	Load Current [A]																																																																																																																																																														
	5V	3.3V	12V	-5V	-12V	5Vs																																																																																																																																																									
5	1.0	0	0	0	0	0																																																																																																																																																									
50	3.5	2.4	1.7	0.07	0.2	0.4																																																																																																																																																									
100	7.0	4.7	3.5	0.15	0.4	0.75																																																																																																																																																									
150	10.5	7.0	5.3	0.2	0.6	1.1																																																																																																																																																									
200	15	9.4	7.0	0.3	0.8	1.5																																																																																																																																																									
Load Power [W]	Fluctuation Value [%]																																																																																																																																																														
	Input Voltage DC20V	Input Voltage DC24V	Input Voltage DC27V																																																																																																																																																												
5	0.34	0.33	0.32																																																																																																																																																												
50	0.93	0.93	0.93																																																																																																																																																												
100	0.52	0.52	0.52																																																																																																																																																												
150	1.08	1.10	1.10																																																																																																																																																												
200	1.13	1.13	1.13																																																																																																																																																												
Load Power [W]	Load Current [A]																																																																																																																																																														
	5V	3.3V	12V	-5V	-12V	5Vs																																																																																																																																																									
5	1.0	0	0	0	0	0																																																																																																																																																									
50	3.5	2.4	1.7	0.07	0.2	0.4																																																																																																																																																									
100	7.0	4.7	3.5	0.15	0.4	0.75																																																																																																																																																									
150	10.5	7.0	5.3	0.2	0.6	1.1																																																																																																																																																									
200	15	9.4	7.0	0.3	0.8	1.5																																																																																																																																																									

Model	eNSP-300P-S20-11
Item	Load Regulation
V6:5Vs 1.5A	
<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
5	0.26    0.26    0.26    0.26
50	-0.02    -0.02    -0.02    -0.02
100	-0.36    -0.34    -0.34    -0.34
150	-0.66    -0.66    -0.68    -0.68
200	-1.02    -1.02    -1.04    -1.04
300	-1.80    -1.82    -1.80    -1.80
at Load Condition	
Load Power [W]	Load Current [A]
	5V    3.3V    12V    -5V    -12V    5Vs
5	1.0    0    0    0    0    0
50	3.5    2.4    1.7    0.07    0.2    0.4
100	7.0    4.7    3.5    0.15    0.4    0.75
150	10.5    7.0    5.3    0.2    0.6    1.1
200	15.0    9.4    7.0    0.3    0.8    1.5
300	20.0    12.0    8.3.0    0.3    0.8    2.5
at Back up by Battery	
Load Power [W]	Fluctuation Value [%]
	Input Voltage DC20V    Input Voltage DC24V    Input Voltage DC27V
5	0.22    0.22    0.22
50	-0.02    -0.02    -0.02
100	-0.84    -0.86    -0.84
150	-0.62    -0.62    -0.62
200	-1.06    -1.06    -1.06
300	-1.84    -1.84    -
at Load Condition	
Load Power [W]	Load Current [A]
	5V    3.3V    12V    -5V    -12V    5Vs
5	1.0    0    0    0    0    0
50	3.5    2.4    1.7    0.07    0.2    0.4
100	7.0    4.7    3.5    0.15    0.4    0.75
150	10.5    7.0    5.3    0.2    0.6    1.1
200	15.0    9.4    7.0    0.3    0.8    1.5
300	20.0    12.0    8.3.0    0.3    0.8    2.5

Model	eNSP-300P-S20-11							
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	85 V	24	/ 30	15	/ 24	40	/ 65
		100 V	24	/ 30	15	/ 24	40	/ 65
		240 V	28	/ 30	15	/ 24	45	/ 65
		264 V	28	/ 30	15	/ 24	42	/ 65
		20 V	20	/ 30	10	/ 24	40	/ 70
		24 V	20	/ 30	10	/ 24	40	/ 70
		27 V	20	/ 30	10	/ 20	40	/ 65
25	AC	85 V	20	/ 30	15	/ 24	40	/ 65
		100 V	20	/ 28	15	/ 24	40	/ 65
		240 V	20	/ 28	15	/ 24	42	/ 65
		264 V	20	/ 28	15	/ 24	45	/ 65
		20 V	20	/ 30	10	/ 24	40	/ 70
		24 V	20	/ 30	10	/ 24	40	/ 70
		27 V	20	/ 30	10	/ 20	40	/ 65
50	AC	85 V	20	/ 30	15	/ 24	45	/ 55
		100 V	20	/ 30	15	/ 24	45	/ 55
		240 V	20	/ 30	15	/ 24	45	/ 50
		264 V	20	/ 30	10	/ 20	45	/ 50
		20 V	20	/ 28	8	/ 20	40	/ 45
		24 V	20	/ 28	8	/ 15	40	/ 45
		27 V	20	/ 28	8	/ 15	40	/ 45
Specification			50	/ 100	50	/ 100	150	/ 200
Judgement			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	85 V	10	/ 60	15	/ 50	10	/ 24
		100 V	10	/ 60	18	/ 50	10	/ 24
		240 V	10	/ 30	15	/ 28	10	/ 24
		264 V	10	/ 28	15	/ 28	10	/ 20
		20 V	20	/ 24	15	/ 24	10	/ 20
		24 V	20	/ 24	15	/ 24	8	/ 20
		27 V	20	/ 24	15	/ 24	10	/ 20
25	AC	85 V	10	/ 55	15	/ 50	10	/ 24
		100 V	10	/ 55	15	/ 50	10	/ 24
		240 V	10	/ 30	15	/ 28	10	/ 20
		264 V	10	/ 30	15	/ 28	10	/ 20
		20 V	20	/ 28	18	/ 24	10	/ 20
		24 V	20	/ 24	18	/ 24	10	/ 20
		27 V	20	/ 24	18	/ 26	10	/ 20
50	AC	85 V	10	/ 60	15	/ 50	10	/ 24
		100 V	10	/ 60	15	/ 50	10	/ 24
		240 V	15	/ 30	15	/ 30	10	/ 20
		264 V	15	/ 24	20	/ 30	10	/ 20
		20 V	20	/ 28	16	/ 24	10	/ 20
		24 V	20	/ 24	20	/ 24	10	/ 15
		27 V	20	/ 24	20	/ 28	10	/ 15
Specification			50	/ 100	100	/ 200	50	/ 100
Judgement			Good		Good		Good	

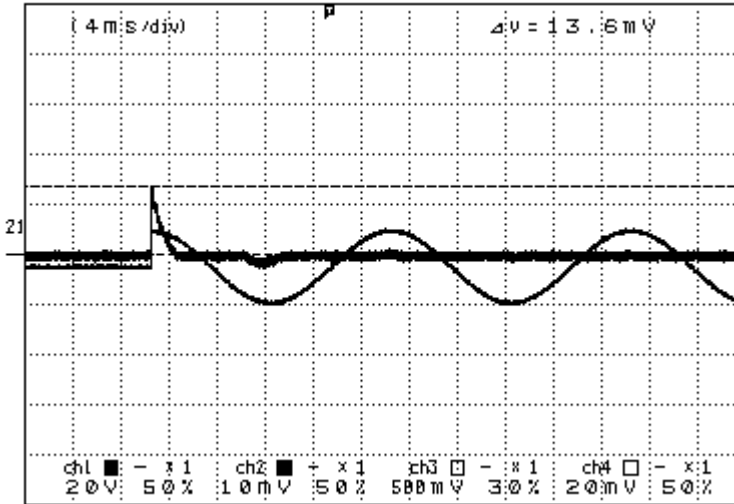
Model	eNSP-300P-S20-11			
Item	Over-Current Protection			
Temperature	Input Voltage	V1 5V	V2 3.3V	V3 12V
-5	AC 85 V	42.5 A	34.0 A	26.0 A
	100 V	42.5 A	34.0 A	25.5 A
	240 V	42.5 A	34.0 A	25.5 A
	264 V	42.5 A	34.0 A	25.5 A
	DC 20 V	60.0 A	36.0 A	22.0 A
	24 V	60.0 A	39.0 A	22.0 A
25	27 V	60.0 A	38.0 A	22.0 A
	AC 85 V	42.5 A	37.0 A	21.0 A
	100 V	43.0 A	36.0 A	21.0 A
	240 V	43.0 A	36.0 A	21.0 A
	264 V	43.5 A	36.0 A	21.5 A
	DC 20 V	55.0 A	39.0 A	19.0 A
50	24 V	56.0 A	39.5 A	19.0 A
	27 V	56.0 A	39.0 A	18.0 A
	AC 85 V	45.0 A	35.5 A	22.5 A
	100 V	45.0 A	35.5 A	22.0 A
	240 V	45.0 A	35.5 A	22.0 A
	264 V	45.0 A	35.5 A	22.0 A
Specification		37A or More	32.5A or More	16A or More
Judgement		Good	Good	Good
Temperature	Input Voltage	V4 -5V	V5 -12V	V6 5VS
-5	AC 85 V	0.7 A	1.6 A	2.9 A
	100 V	0.7 A	1.6 A	2.8 A
	240 V	0.7 A	1.6 A	2.9 A
	264 V	0.7 A	1.6 A	2.9 A
	DC 20 V	0.4 A	1.5 A	2.9 A
	24 V	0.4 A	1.6 A	2.9 A
25	27 V	0.4 A	1.6 A	2.9 A
	AC 85 V	0.6 A	1.6 A	2.6 A
	100 V	0.6 A	1.6 A	2.6 A
	240 V	0.6 A	1.6 A	2.6 A
	264 V	0.6 A	1.6 A	2.6 A
	DC 20 V	0.6 A	1.8 A	2.6 A
50	24 V	0.6 A	1.8 A	2.6 A
	27 V	0.6 A	1.8 A	2.6 A
	AC 85 V	0.6 A	1.3 A	2.6 A
	100 V	0.5 A	1.3 A	2.7 A
	240 V	0.6 A	1.3 A	2.7 A
	264 V	0.5 A	1.1 A	2.7 A
Specification		0.315A or More	0.84A or More	1.575A or More
Judgement		Good	Good	Good

Model	eNSP-300P-S20-11																																																									
Item	Over-Voltage Protection																																																									
<table border="1"> <thead> <tr> <th>Temperature</th> <th>Input Voltage</th> <th>V1:5V</th> <th>V2:3.3V</th> <th>V3:12V</th> </tr> </thead> <tbody> <tr> <td rowspan="3">-5</td> <td>AC100V</td> <td>6.9V</td> <td>4.3V</td> <td>14.5V</td> </tr> <tr> <td>AC240V</td> <td>6.9V</td> <td>4.3V</td> <td>14.4V</td> </tr> <tr> <td>DC24V</td> <td>6.9V</td> <td>4.3V</td> <td>14.4V</td> </tr> <tr> <td rowspan="3">25</td> <td>AC100V</td> <td>6.4V</td> <td>3.9V</td> <td>14.6V</td> </tr> <tr> <td>AC240V</td> <td>6.5V</td> <td>4.0V</td> <td>14.6V</td> </tr> <tr> <td>DC24V</td> <td>6.5V</td> <td>4.0V</td> <td>14.6V</td> </tr> <tr> <td rowspan="3">50</td> <td>AC100V</td> <td>6.4V</td> <td>3.8V</td> <td>14.7V</td> </tr> <tr> <td>AC240V</td> <td>6.4V</td> <td>3.8V</td> <td>14.7V</td> </tr> <tr> <td>DC100V</td> <td>6.4V</td> <td>3.8V</td> <td>14.7V</td> </tr> <tr> <td colspan="2">Specification</td> <td>5.74 ~ 7.0V</td> <td>3.76 ~ 4.3V</td> <td>13.4 ~ 15.6V</td> </tr> <tr> <td colspan="2">Judgement</td> <td>Good</td> <td>Good</td> <td>Good</td> </tr> </tbody> </table>					Temperature	Input Voltage	V1:5V	V2:3.3V	V3:12V	-5	AC100V	6.9V	4.3V	14.5V	AC240V	6.9V	4.3V	14.4V	DC24V	6.9V	4.3V	14.4V	25	AC100V	6.4V	3.9V	14.6V	AC240V	6.5V	4.0V	14.6V	DC24V	6.5V	4.0V	14.6V	50	AC100V	6.4V	3.8V	14.7V	AC240V	6.4V	3.8V	14.7V	DC100V	6.4V	3.8V	14.7V	Specification		5.74 ~ 7.0V	3.76 ~ 4.3V	13.4 ~ 15.6V	Judgement		Good	Good	Good
Temperature	Input Voltage	V1:5V	V2:3.3V	V3:12V																																																						
-5	AC100V	6.9V	4.3V	14.5V																																																						
	AC240V	6.9V	4.3V	14.4V																																																						
	DC24V	6.9V	4.3V	14.4V																																																						
25	AC100V	6.4V	3.9V	14.6V																																																						
	AC240V	6.5V	4.0V	14.6V																																																						
	DC24V	6.5V	4.0V	14.6V																																																						
50	AC100V	6.4V	3.8V	14.7V																																																						
	AC240V	6.4V	3.8V	14.7V																																																						
	DC100V	6.4V	3.8V	14.7V																																																						
Specification		5.74 ~ 7.0V	3.76 ~ 4.3V	13.4 ~ 15.6V																																																						
Judgement		Good	Good	Good																																																						

Model	eNSP-300P-S20-11
Item	Inrush Current

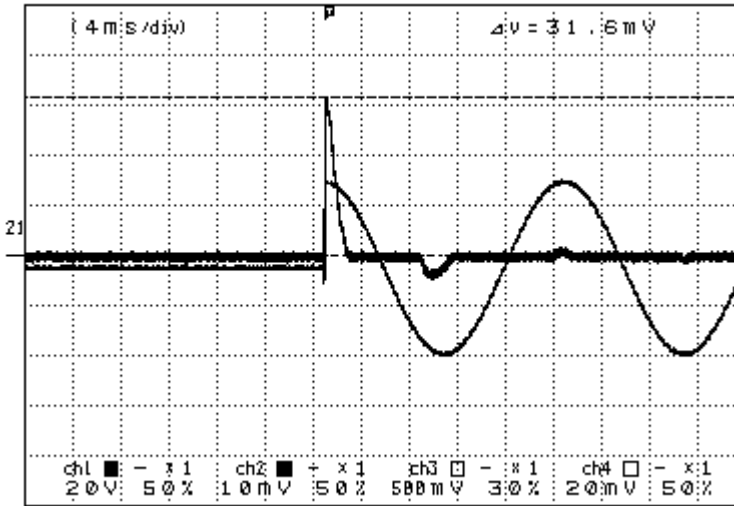
Inrush Current Wave

\* MEM \* trig:SINGLE CH1 leve ↓ 46% - 10%  
 20μs x1/200 CSR: A&B A:CH1 B:CH2



Wave No1	
CH1	Measuring Point : Input Voltage Range 200V/DIV
CH2	Measuring Point : Input Current Range 20A/DIV
Time Line	4ms/DIV
Conditions	Input : AC100V 50Hz Load : Rated Load
Note :	
Inrush Current Value : 27.2A	

\* MEM \* trig:SINGLE CH1 leve ↓ 46% - 10%  
 20μs x1/200 CSR: A&B A:CH1 B:CH2



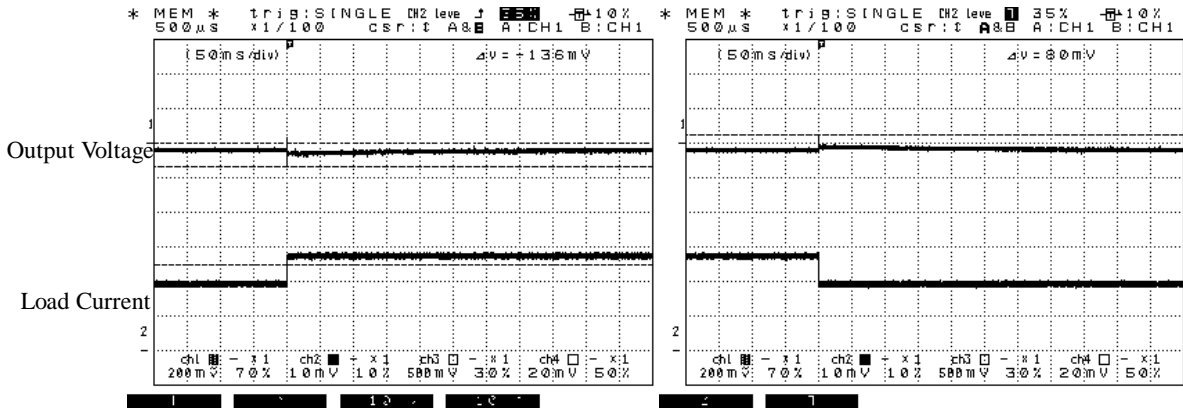
Wave No2	
CH1	Measuring Point : Input Voltage Range 200V/DIV
CH2	Measuring Point : Input Current Range 20A/DIV
Time Line	4ms/DIV
Conditions	Input : AC240V 50Hz Load : Rated Load
Note :	
Inrush Current Value : 63.2A	



Model	eNSP-300P-S20-11
Item	Dynamic Load Response

V1: +5V 14A

70% Load    100% Load

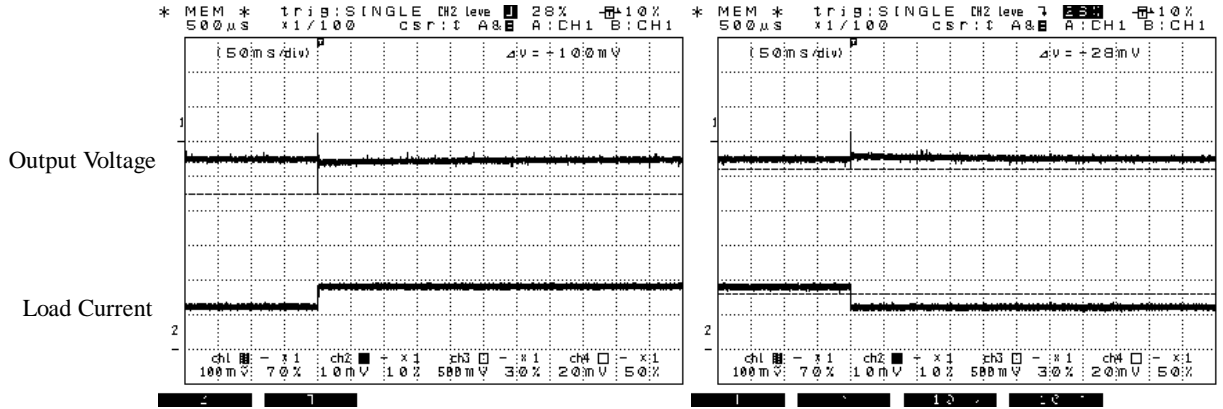


Sudden Fluctuation of Load	Fluctuation Value	ATX Specific Value	Judgement
70% Load    100% Load	48mV -136mV	± 250mV	Good
100% Load    70% Load	80mV - mV		Good

Model	eNSP-300P-S20-11
Item	Dynamic Load Response

V2: +3.3V 9.4A

70% Load    100% Load

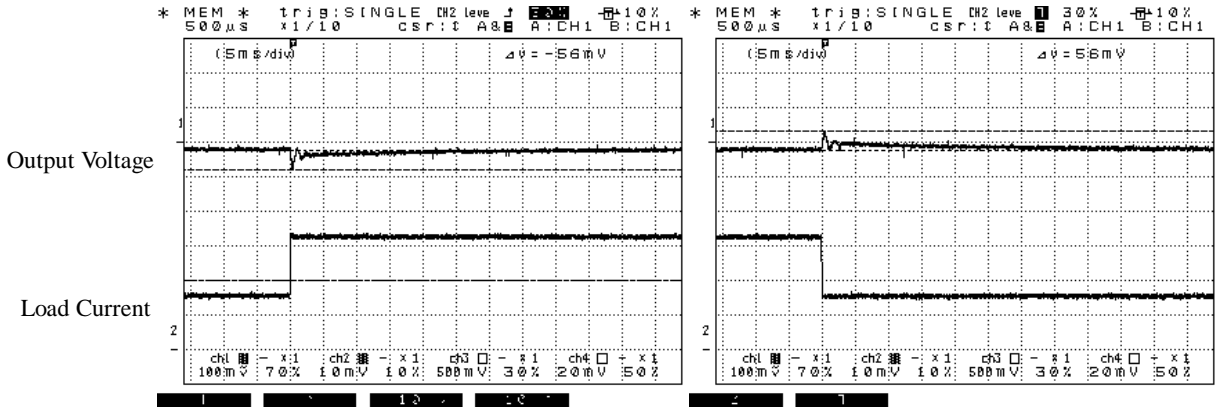


Sudden Fluctuation of Load	Fluctuation Value	ATX Specific Value	Judgement
70% Load    100% Load	72mV -100mV	± 165mV	Good
100% Load    70% Load	84mV -28mV		Good

Model	eNSP-300P-S20-11
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 -560mV	± 600mV	Good
100% Load    50% Load	560mV - mV		Good

Model	eNSP-300P-S20-11																																																																																																													
Item	12V Cross Regulation																																																																																																													
<p>Legend:  <span style="color: blue;">■</span> 5V 1A  <span style="color: magenta;">◆</span> 5V 7A  <span style="color: green;">▲</span> 5V 14A  <span style="color: red;">●</span> 5V 30A</p>		<table border="1"> <thead> <tr> <th rowspan="2">12V Load Current</th> <th colspan="4">12V Voltage Value [V]</th> </tr> <tr> <th>5V 1A</th> <th>5V 7A</th> <th>5V 14A</th> <th>5V 30A</th> </tr> </thead> <tbody> <tr><td>0A</td><td>11.912</td><td>12.072</td><td>12.268</td><td>12.803</td></tr> <tr><td>2A</td><td>11.458</td><td>11.648</td><td>11.909</td><td>12.504</td></tr> <tr><td>3.5A</td><td>11.402</td><td>11.582</td><td>11.858</td><td>12.427</td></tr> <tr><td>5A</td><td>11.334</td><td>11.513</td><td>11.785</td><td>12.370</td></tr> <tr><td>7A</td><td>11.242</td><td>11.407</td><td>11.686</td><td>12.250</td></tr> <tr><td>8.3A</td><td>11.172</td><td>11.369</td><td>11.595</td><td>12.170</td></tr> <tr><td>10A</td><td>11.093</td><td>11.262</td><td>11.539</td><td>-</td></tr> <tr><td>13A</td><td>10.949</td><td>11.107</td><td>11.374</td><td>-</td></tr> <tr><td>15A</td><td>10.85</td><td>11.032</td><td>11.260</td><td>-</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th rowspan="2">12V Load Current</th> <th colspan="4">Fluctuation Value [%]</th> </tr> <tr> <th>5V 1A</th> <th>5V 7A</th> <th>5V 14A</th> <th>5V 30A</th> </tr> </thead> <tbody> <tr><td>0A</td><td>-0.733</td><td>0.600</td><td>1.624</td><td>6.055</td></tr> <tr><td>2A</td><td>-4.517</td><td>-2.933</td><td>-1.350</td><td>3.579</td></tr> <tr><td>3.5A</td><td>-4.983</td><td>-3.483</td><td>-1.773</td><td>2.941</td></tr> <tr><td>5A</td><td>-5.550</td><td>-4.058</td><td>-2.377</td><td>2.469</td></tr> <tr><td>7A</td><td>-6.317</td><td>-4.942</td><td>-3.197</td><td>1.475</td></tr> <tr><td>8.3A</td><td>-6.900</td><td>-5.258</td><td>-3.951</td><td>0.812</td></tr> <tr><td>10A</td><td>-7.558</td><td>-6.150</td><td>-4.415</td><td>-</td></tr> <tr><td>13A</td><td>-8.758</td><td>-7.442</td><td>-5.782</td><td>-</td></tr> <tr><td>15A</td><td>-9.583</td><td>-8.067</td><td>-6.726</td><td>-</td></tr> </tbody> </table>	12V Load Current	12V Voltage Value [V]				5V 1A	5V 7A	5V 14A	5V 30A	0A	11.912	12.072	12.268	12.803	2A	11.458	11.648	11.909	12.504	3.5A	11.402	11.582	11.858	12.427	5A	11.334	11.513	11.785	12.370	7A	11.242	11.407	11.686	12.250	8.3A	11.172	11.369	11.595	12.170	10A	11.093	11.262	11.539	-	13A	10.949	11.107	11.374	-	15A	10.85	11.032	11.260	-	12V Load Current	Fluctuation Value [%]				5V 1A	5V 7A	5V 14A	5V 30A	0A	-0.733	0.600	1.624	6.055	2A	-4.517	-2.933	-1.350	3.579	3.5A	-4.983	-3.483	-1.773	2.941	5A	-5.550	-4.058	-2.377	2.469	7A	-6.317	-4.942	-3.197	1.475	8.3A	-6.900	-5.258	-3.951	0.812	10A	-7.558	-6.150	-4.415	-	13A	-8.758	-7.442	-5.782	-	15A	-9.583	-8.067	-6.726	-
12V Load Current	12V Voltage Value [V]																																																																																																													
	5V 1A	5V 7A	5V 14A	5V 30A																																																																																																										
0A	11.912	12.072	12.268	12.803																																																																																																										
2A	11.458	11.648	11.909	12.504																																																																																																										
3.5A	11.402	11.582	11.858	12.427																																																																																																										
5A	11.334	11.513	11.785	12.370																																																																																																										
7A	11.242	11.407	11.686	12.250																																																																																																										
8.3A	11.172	11.369	11.595	12.170																																																																																																										
10A	11.093	11.262	11.539	-																																																																																																										
13A	10.949	11.107	11.374	-																																																																																																										
15A	10.85	11.032	11.260	-																																																																																																										
12V Load Current	Fluctuation Value [%]																																																																																																													
	5V 1A	5V 7A	5V 14A	5V 30A																																																																																																										
0A	-0.733	0.600	1.624	6.055																																																																																																										
2A	-4.517	-2.933	-1.350	3.579																																																																																																										
3.5A	-4.983	-3.483	-1.773	2.941																																																																																																										
5A	-5.550	-4.058	-2.377	2.469																																																																																																										
7A	-6.317	-4.942	-3.197	1.475																																																																																																										
8.3A	-6.900	-5.258	-3.951	0.812																																																																																																										
10A	-7.558	-6.150	-4.415	-																																																																																																										
13A	-8.758	-7.442	-5.782	-																																																																																																										
15A	-9.583	-8.067	-6.726	-																																																																																																										

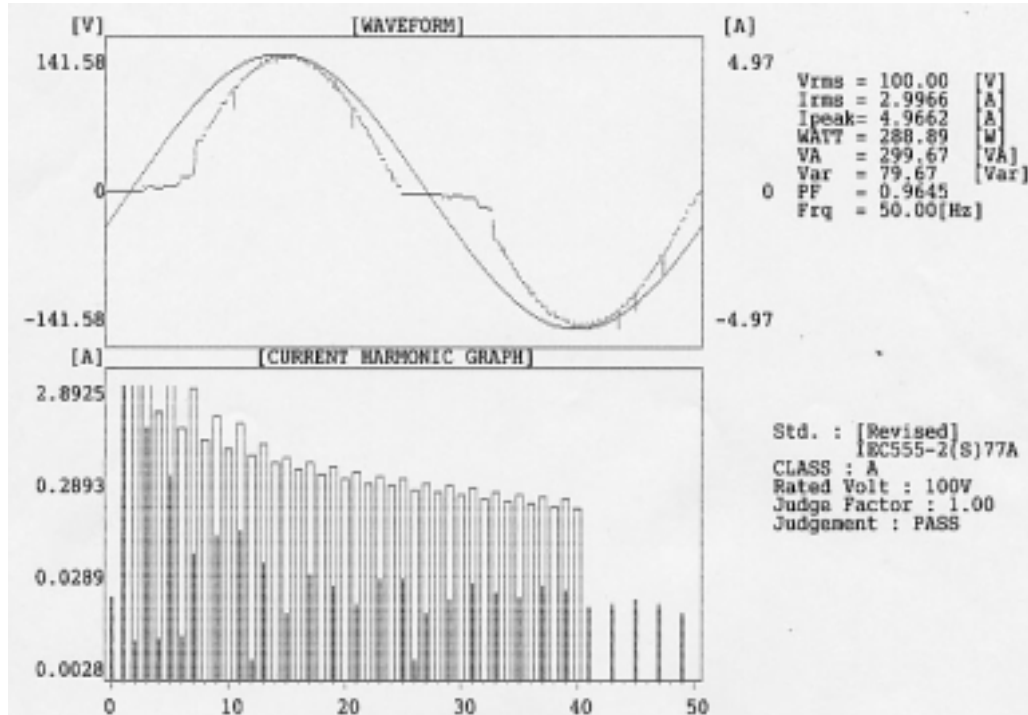
Model	eNSP-300P-S20-11																								
Item	Ambient Temperature Drift																								
<p>V1: 5V 14A</p>																									
<p>at AC Input</p> <table border="1"> <thead> <tr> <th rowspan="2">Temperature ( )</th> <th colspan="4">Output Voltage [V]</th> </tr> <tr> <th>Input Voltage 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>5.053</td> <td>5.047</td> <td>5.045</td> <td>5.043</td> </tr> <tr> <td>25</td> <td>5.000</td> <td>5.006</td> <td>4.998</td> <td>4.997</td> </tr> <tr> <td>50</td> <td>4.923</td> <td>4.909</td> <td>4.907</td> <td>4.905</td> </tr> </tbody> </table>		Temperature ( )	Output Voltage [V]				Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	-5	5.053	5.047	5.045	5.043	25	5.000	5.006	4.998	4.997	50	4.923	4.909	4.907	4.905
Temperature ( )	Output Voltage [V]																								
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																					
-5	5.053	5.047	5.045	5.043																					
25	5.000	5.006	4.998	4.997																					
50	4.923	4.909	4.907	4.905																					
<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>1.060</td> <td>0.940</td> <td>0.900</td> <td>0.860</td> </tr> <tr> <td>25</td> <td>0.000</td> <td>0.120</td> <td>-0.040</td> <td>-0.060</td> </tr> <tr> <td>50</td> <td>-1.540</td> <td>-1.820</td> <td>-1.860</td> <td>-1.900</td> </tr> </tbody> </table>		Temperature ( )	Fluctuation Value [%]				Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	-5	1.060	0.940	0.900	0.860	25	0.000	0.120	-0.040	-0.060	50	-1.540	-1.820	-1.860	-1.900
Temperature ( )	Fluctuation Value [%]																								
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																					
-5	1.060	0.940	0.900	0.860																					
25	0.000	0.120	-0.040	-0.060																					
50	-1.540	-1.820	-1.860	-1.900																					
<p>V2: 3.3V 9.4A</p>																									
<p>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>3.299</td> <td>3.299</td> <td>3.299</td> <td>3.299</td> </tr> <tr> <td>25</td> <td>3.301</td> <td>3.301</td> <td>3.301</td> <td>3.301</td> </tr> <tr> <td>50</td> <td>3.317</td> <td>3.315</td> <td>3.315</td> <td>3.314</td> </tr> </tbody> </table>		Temperature ( )	Output Voltage [V]				Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	-5	3.299	3.299	3.299	3.299	25	3.301	3.301	3.301	3.301	50	3.317	3.315	3.315	3.314
Temperature ( )	Output Voltage [V]																								
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																					
-5	3.299	3.299	3.299	3.299																					
25	3.301	3.301	3.301	3.301																					
50	3.317	3.315	3.315	3.314																					
<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>-0.030</td> <td>-0.030</td> <td>-0.030</td> <td>-0.030</td> </tr> <tr> <td>25</td> <td>0.030</td> <td>0.030</td> <td>0.030</td> <td>0.030</td> </tr> <tr> <td>50</td> <td>0.515</td> <td>0.455</td> <td>0.455</td> <td>0.424</td> </tr> </tbody> </table>		Temperature ( )	Fluctuation Value [%]				Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	-5	-0.030	-0.030	-0.030	-0.030	25	0.030	0.030	0.030	0.030	50	0.515	0.455	0.455	0.424
Temperature ( )	Fluctuation Value [%]																								
	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																					
-5	-0.030	-0.030	-0.030	-0.030																					
25	0.030	0.030	0.030	0.030																					
50	0.515	0.455	0.455	0.424																					

Model	eNSP-300P-S20-11																																																			
Item	Ambient Temperature Drift																																																			
<p>V3: 12V 7A</p>		<p>at AC Input</p> <table border="1"> <thead> <tr> <th colspan="5">Output Voltage [V]</th> </tr> <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>-5</td> <td>11.774</td> <td>11.767</td> <td>11.764</td> <td>11.760</td> </tr> <tr> <td>25</td> <td>11.667</td> <td>11.667</td> <td>11.661</td> <td>11.661</td> </tr> <tr> <td>50</td> <td>11.559</td> <td>11.551</td> <td>11.547</td> <td>11.543</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="5">Fluctuation Value [%]</th> </tr> <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>-5</td> <td>-1.883</td> <td>-1.942</td> <td>-1.967</td> <td>-2.000</td> </tr> <tr> <td>25</td> <td>-2.775</td> <td>-2.775</td> <td>-2.825</td> <td>-2.825</td> </tr> <tr> <td>50</td> <td>-3.675</td> <td>-3.742</td> <td>-3.775</td> <td>-3.808</td> </tr> </tbody> </table>	Output Voltage [V]					Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	-5	11.774	11.767	11.764	11.760	25	11.667	11.667	11.661	11.661	50	11.559	11.551	11.547	11.543	Fluctuation Value [%]					Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	-5	-1.883	-1.942	-1.967	-2.000	25	-2.775	-2.775	-2.825	-2.825	50	-3.675	-3.742	-3.775	-3.808
Output Voltage [V]																																																				
Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																																																
-5	11.774	11.767	11.764	11.760																																																
25	11.667	11.667	11.661	11.661																																																
50	11.559	11.551	11.547	11.543																																																
Fluctuation Value [%]																																																				
Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																																																
-5	-1.883	-1.942	-1.967	-2.000																																																
25	-2.775	-2.775	-2.825	-2.825																																																
50	-3.675	-3.742	-3.775	-3.808																																																
<p>V4: -5V 0.3A</p>		<p>at AC Input</p> <table border="1"> <thead> <tr> <th colspan="5">Output Voltage [V]</th> </tr> <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>-5</td> <td>-5.006</td> <td>-5.009</td> <td>-5.010</td> <td>-5.010</td> </tr> <tr> <td>25</td> <td>-5.017</td> <td>5.017</td> <td>-5.018</td> <td>-5.018</td> </tr> <tr> <td>50</td> <td>-5.007</td> <td>-5.008</td> <td>-5.008</td> <td>-5.008</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="5">Fluctuation Value [%]</th> </tr> <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>-5</td> <td>0.120</td> <td>0.180</td> <td>0.200</td> <td>0.200</td> </tr> <tr> <td>25</td> <td>0.340</td> <td>0.340</td> <td>0.360</td> <td>0.360</td> </tr> <tr> <td>50</td> <td>0.140</td> <td>0.160</td> <td>0.160</td> <td>0.160</td> </tr> </tbody> </table>	Output Voltage [V]					Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	-5	-5.006	-5.009	-5.010	-5.010	25	-5.017	5.017	-5.018	-5.018	50	-5.007	-5.008	-5.008	-5.008	Fluctuation Value [%]					Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	-5	0.120	0.180	0.200	0.200	25	0.340	0.340	0.360	0.360	50	0.140	0.160	0.160	0.160
Output Voltage [V]																																																				
Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																																																
-5	-5.006	-5.009	-5.010	-5.010																																																
25	-5.017	5.017	-5.018	-5.018																																																
50	-5.007	-5.008	-5.008	-5.008																																																
Fluctuation Value [%]																																																				
Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																																																
-5	0.120	0.180	0.200	0.200																																																
25	0.340	0.340	0.360	0.360																																																
50	0.140	0.160	0.160	0.160																																																

Model	eNSP-300P-S20-11																																																			
Item	Ambient Temperature Drift																																																			
<p>V5: -12V 0.8A</p>		<p>at AC Input</p> <table border="1"> <thead> <tr> <th colspan="5">Output Voltage [V]</th> </tr> <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>-5</td> <td>-12.056</td> <td>-12.058</td> <td>-12.059</td> <td>-12.059</td> </tr> <tr> <td>25</td> <td>-12.068</td> <td>-12.068</td> <td>-12.068</td> <td>-12.068</td> </tr> <tr> <td>50</td> <td>-12.068</td> <td>-12.068</td> <td>-12.068</td> <td>-12.068</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="5">Fluctuation Value [%]</th> </tr> <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>-5</td> <td>0.467</td> <td>0.483</td> <td>0.492</td> <td>0.492</td> </tr> <tr> <td>25</td> <td>0.567</td> <td>0.567</td> <td>0.567</td> <td>0.567</td> </tr> <tr> <td>50</td> <td>0.567</td> <td>0.567</td> <td>0.567</td> <td>0.567</td> </tr> </tbody> </table>	Output Voltage [V]					Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	-5	-12.056	-12.058	-12.059	-12.059	25	-12.068	-12.068	-12.068	-12.068	50	-12.068	-12.068	-12.068	-12.068	Fluctuation Value [%]					Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	-5	0.467	0.483	0.492	0.492	25	0.567	0.567	0.567	0.567	50	0.567	0.567	0.567	0.567
Output Voltage [V]																																																				
Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																																																
-5	-12.056	-12.058	-12.059	-12.059																																																
25	-12.068	-12.068	-12.068	-12.068																																																
50	-12.068	-12.068	-12.068	-12.068																																																
Fluctuation Value [%]																																																				
Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																																																
-5	0.467	0.483	0.492	0.492																																																
25	0.567	0.567	0.567	0.567																																																
50	0.567	0.567	0.567	0.567																																																
<p>V6: 5Vs 1.5A</p>		<p>at AC Input</p> <table border="1"> <thead> <tr> <th colspan="5">Output Voltage [V]</th> </tr> <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>-5</td> <td>4.959</td> <td>4.959</td> <td>4.959</td> <td>4.959</td> </tr> <tr> <td>25</td> <td>4.957</td> <td>4.956</td> <td>4.956</td> <td>4.956</td> </tr> <tr> <td>50</td> <td>4.923</td> <td>4.922</td> <td>4.921</td> <td>4.921</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="5">Fluctuation Value [%]</th> </tr> <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>-5</td> <td>-0.820</td> <td>-0.820</td> <td>-0.820</td> <td>-0.820</td> </tr> <tr> <td>25</td> <td>-0.860</td> <td>-0.880</td> <td>-0.880</td> <td>-0.880</td> </tr> <tr> <td>50</td> <td>-1.540</td> <td>-1.560</td> <td>-1.580</td> <td>-1.580</td> </tr> </tbody> </table>	Output Voltage [V]					Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	-5	4.959	4.959	4.959	4.959	25	4.957	4.956	4.956	4.956	50	4.923	4.922	4.921	4.921	Fluctuation Value [%]					Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V	-5	-0.820	-0.820	-0.820	-0.820	25	-0.860	-0.880	-0.880	-0.880	50	-1.540	-1.560	-1.580	-1.580
Output Voltage [V]																																																				
Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																																																
-5	4.959	4.959	4.959	4.959																																																
25	4.957	4.956	4.956	4.956																																																
50	4.923	4.922	4.921	4.921																																																
Fluctuation Value [%]																																																				
Temperature ( )	Input Voltage AC85V	Input Voltage AC100V	Input Voltage AC240V	Input Voltage AC264V																																																
-5	-0.820	-0.820	-0.820	-0.820																																																
25	-0.860	-0.880	-0.880	-0.880																																																
50	-1.540	-1.560	-1.580	-1.580																																																

Model	eNSP-300P-S20-11
Item	Harmonic Current

Measuring Instrument : MP701(Keisoku Giken)



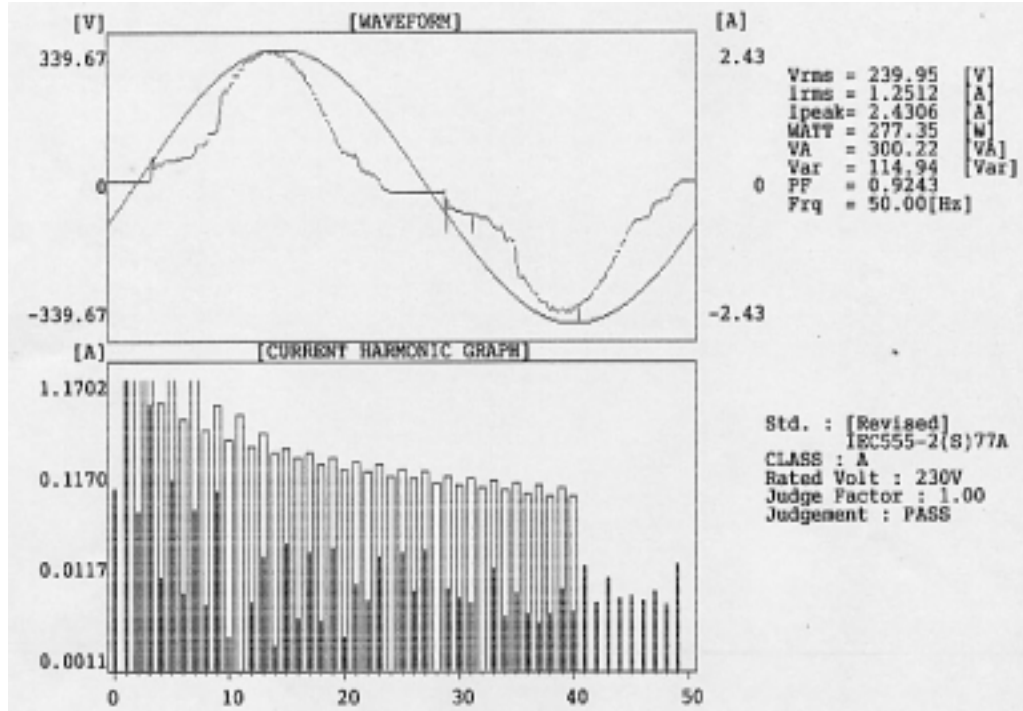
[CURRENT HARMONIC DATA]

No	(A)	No	(A)	No	(A)	No	(A)
00	0.0135	13	0.0306	26	0.0031	39	0.0157
01	2.8925	14	0.0028	27	0.0092	40	0.0015
02	0.0048	15	0.0092	28	0.0015	41	0.0108
03	0.7195	16	0.0022	29	0.0125	42	0.0022
04	0.0050	17	0.0231	30	0.0025	43	0.0112
05	0.2408	18	0.0025	31	0.0188	44	0.0007
06	0.0053	19	0.0171	32	0.0015	45	0.0129
07	0.0367	20	0.0022	33	0.0146	46	0.0028
08	0.0025	21	0.0114	34	0.0015	47	0.0115
09	0.0564	22	0.0015	35	0.0137	48	0.0015
10	0.0025	23	0.0204	36	0.0015	49	0.0090
11	0.0637	24	0.0018	37	0.0173		
12	0.0031	25	0.0202	38	0.0007		



Model	eNSP-300P-S20-11
Item	Harmonic Current

Measuring Instrument : MP701(Keisoku Giken)



[CURRENT HARMONIC DATA]							
No	(A)	No	(A)	No	(A)	No	(A)
00	0.0579	13	0.0115	26	0.0052	39	0.0055
01	1.1702	14	0.0014	27	0.0137	40	0.0032
02	0.0339	15	0.0164	28	0.0008	41	0.0091
03	0.4236	16	0.0026	29	0.0055	42	0.0040
04	0.0072	17	0.0130	30	0.0044	43	0.0070
05	0.0732	18	0.0025	31	0.0039	44	0.0042
06	0.0048	19	0.0143	32	0.0004	45	0.0045
07	0.0352	20	0.0017	33	0.0088	46	0.0040
08	0.0038	21	0.0060	34	0.0029	47	0.0052
09	0.0563	22	0.0042	35	0.0049	48	0.0038
10	0.0017	23	0.0116	36	0.0030	49	0.0099
11	0.0008	24	0.0005	37	0.0024		
12	0.0038	25	0.0126	38	0.0030		

Model	eNSP-300P-S20-11
Item	Leakage Current Test

Temperature Room Temperature  
 Input AC100V, 240V  
 Load Rated Load

測定値

Input Voltage (V)	at Rated Load (mA)
100V	0.34
240V	0.85

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

Model	eNSP-300P-S20-11
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

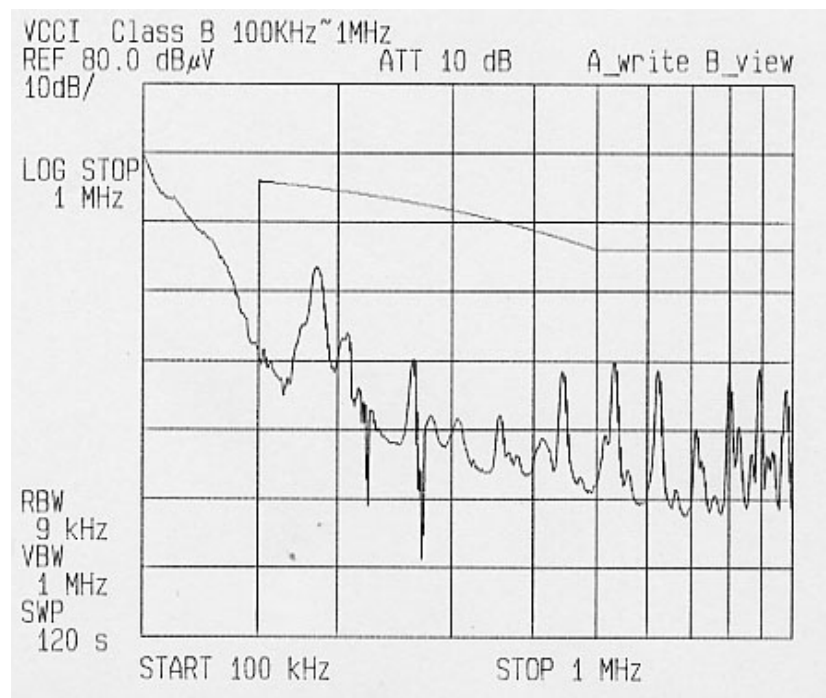
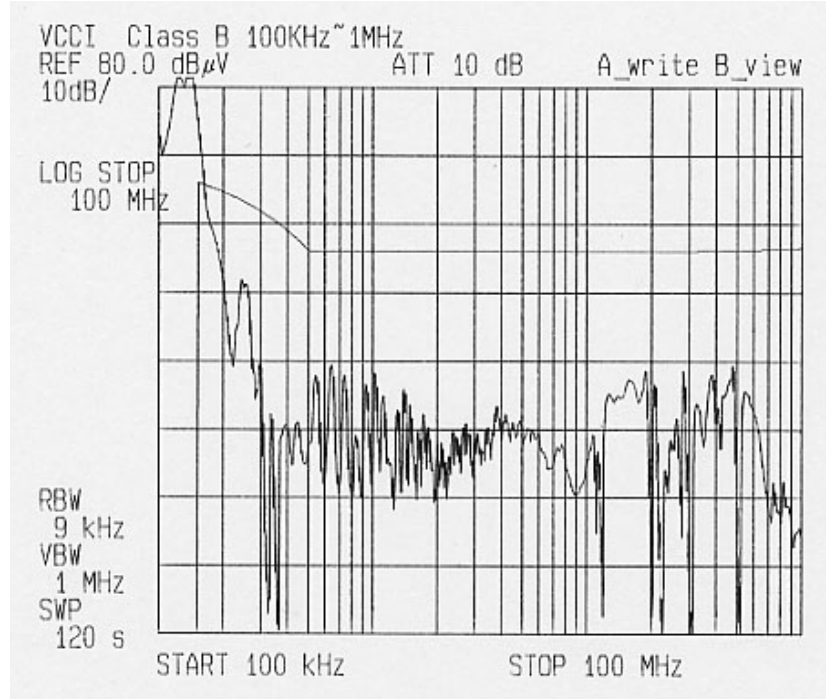
Normal	Pulse Impressed Mode			
	100ns		800ns	
	Polarity +	Polarity -	Polarity +	Polarity -
Common R Phase	Pulse Impressed Mode			
	100ns		800ns	
	Polarity +	Polarity -	Polarity +	Polarity -
Common S Phase	Pulse Impressed Mode			
	100ns		800ns	
	Polarity +	Polarity -	Polarity +	Polarity -

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

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

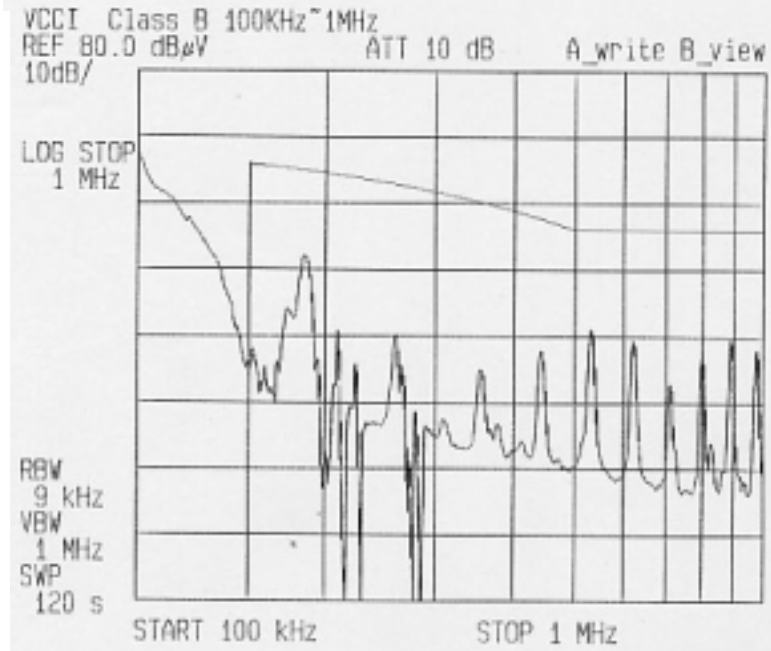
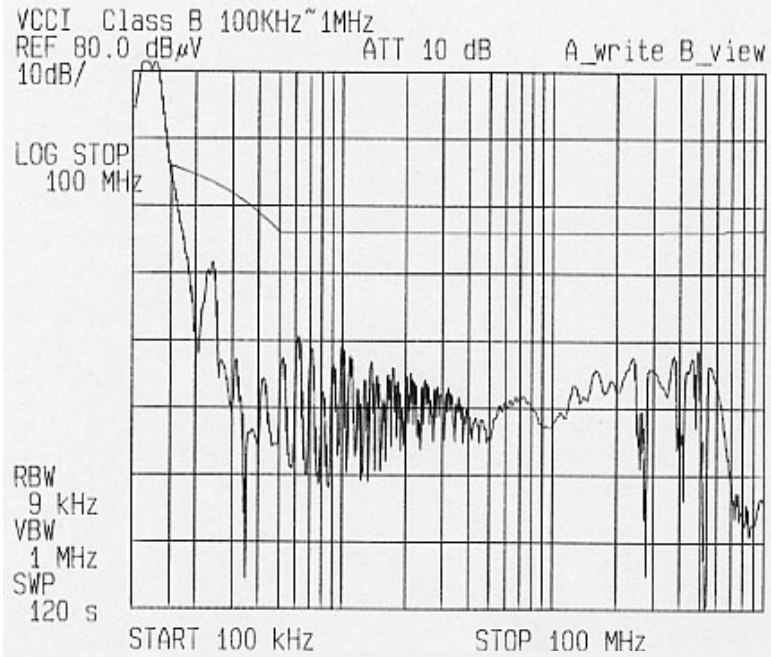
Model	eNSP-300P-S20-11
Item	Conduction Emission

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



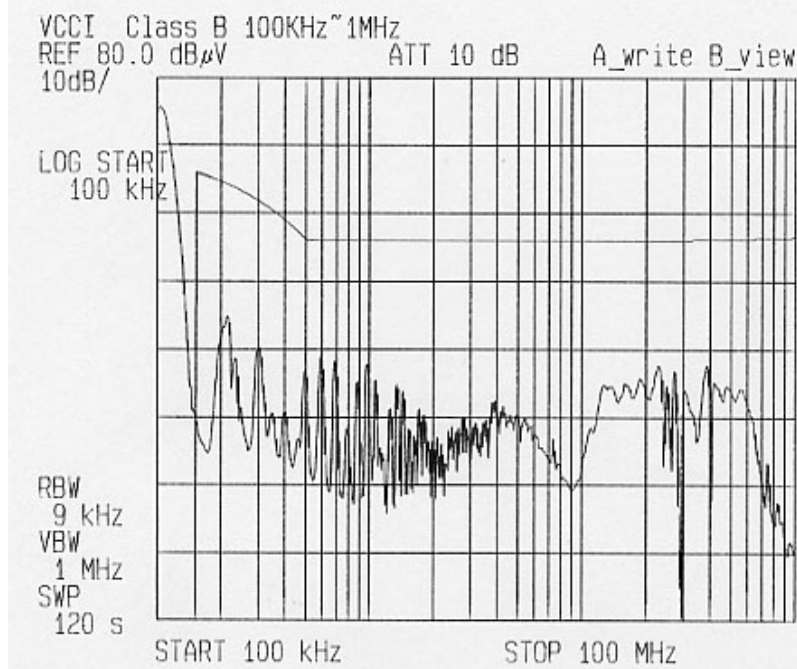
Model	eNSP-300P-S20-11
Item	Conduction Emission

Temperature Room Temperature  
 Input AC100V  
 Load Rated Load  
 Measuring Point N-FG  
 Measuring Instrument R3261A (Advantest)  
 Phase B

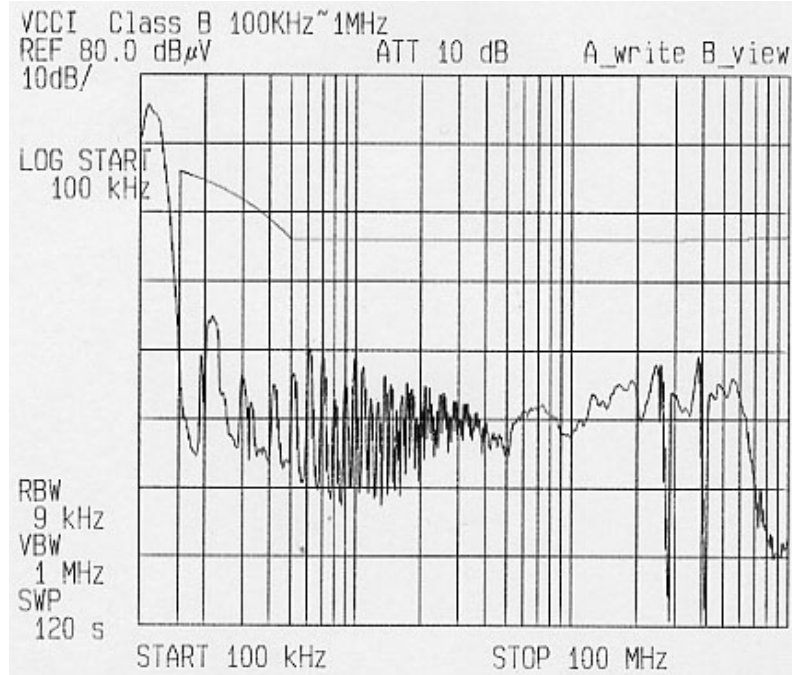


Model	eNSP-300P-S20-11
Item	Conduction Emission

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

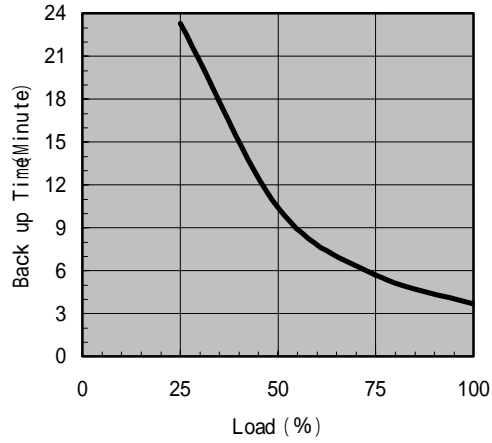


Phase B



Model	eNSP-300P-S20-11
Item	Battery Discharge

Back up Time



Load Power [%]	Back up Time [Minute]
25	23.3
50	10.4
75	5.7
100	3.7

100%Load = 200W

Battery Voltage

