

TEST DATA OF SNDHS100B05

Regulated DC Power Supply
June 30, 2011

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Prepared by : Tadashi Arai
Tadashi Arai Design Engineer

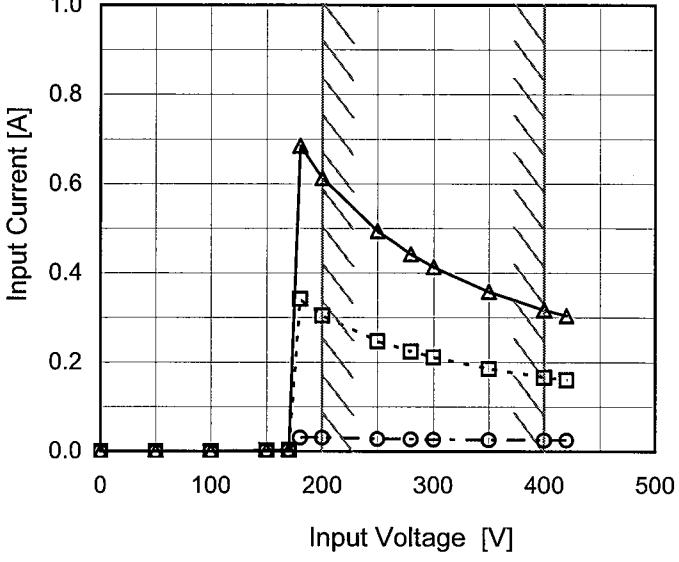
COSEL CO.,LTD.

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Model	SNDSH100B05	Temperature Testing Circuitry	25°C Figure A																																																																															
Item	Input Current (by Input Voltage)																																																																																	
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Note: Slanted line shows the range of the rated input voltage.																																																																																		

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Model	SNDSH100B05
Item	Input Current (by Load Current)
Object	

1.Graph

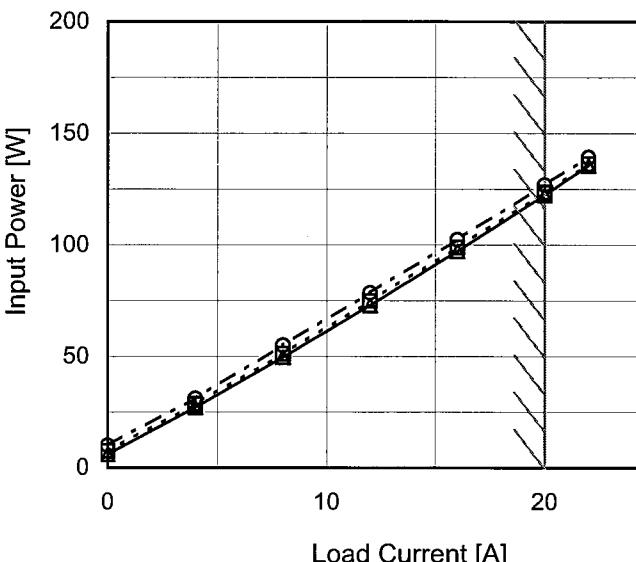
2.Values

Load Current [A]	Input Current [A]		
	Input Volt. 200[V]	Input Volt. 280[V]	Input Volt. 400[V]
0	0.030	0.027	0.025
4	0.136	0.102	0.078
8	0.249	0.183	0.138
12	0.365	0.267	0.196
16	0.486	0.353	0.256
20	0.612	0.441	0.317
22	0.678	0.486	0.348
--	-	-	-
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Note: Slanted line shows the range of the rated load current.

Temperature 25°C
Testing Circuitry Figure A

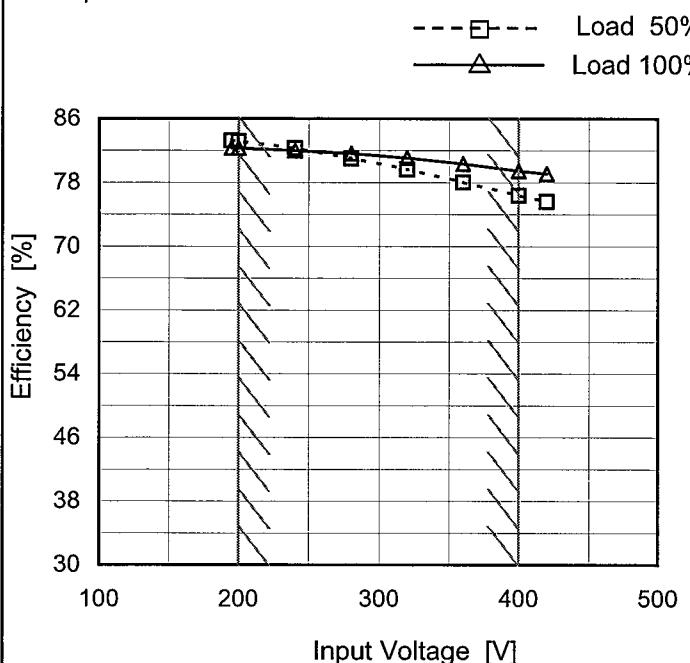
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1. Graph		2. Values																																															
<p>—△— Input Volt. 200V - -□--- Input Volt. 280V - -○--- Input Volt. 400V</p>  <p>The graph plots Input Power [W] on the Y-axis (0 to 200) against Load Current [A] on the X-axis (0 to 20). Three curves are shown for input voltages of 200V, 280V, and 400V. A slanted line indicates the rated load current range.</p> <table border="1"> <thead> <tr> <th>Load Current [A]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 280[V]</th> <th>Input Volt. 400[V]</th> </tr> </thead> <tbody> <tr><td>0</td><td>6.1</td><td>7.5</td><td>10.0</td></tr> <tr><td>4</td><td>27.2</td><td>28.6</td><td>31.2</td></tr> <tr><td>8</td><td>49.7</td><td>51.2</td><td>55.1</td></tr> <tr><td>12</td><td>73.0</td><td>74.8</td><td>78.6</td></tr> <tr><td>16</td><td>97.2</td><td>98.9</td><td>102.4</td></tr> <tr><td>20</td><td>122.4</td><td>123.6</td><td>127.0</td></tr> <tr><td>22</td><td>135.6</td><td>136.3</td><td>139.4</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table>		Load Current [A]	Input Volt. 200[V]	Input Volt. 280[V]	Input Volt. 400[V]	0	6.1	7.5	10.0	4	27.2	28.6	31.2	8	49.7	51.2	55.1	12	73.0	74.8	78.6	16	97.2	98.9	102.4	20	122.4	123.6	127.0	22	135.6	136.3	139.4	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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<p>Note: Slanted line shows the range of the rated load current.</p>																																																	

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Model	SNDSH100B05
Item	Efficiency (by Input Voltage)
Object	—

1.Graph



Note: Slanted line shows the range of the rated input voltage.

Temperature 25°C
Testing Circuitry Figure A

2.Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
195	83.3	82.3
200	83.1	82.3
240	82.3	82.0
280	81.0	81.7
320	79.6	81.1
360	78.0	80.4
400	76.4	79.5
420	75.6	79.1
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COSEL

Model	SNDSH100B05																																																
Item	Efficiency (by Load Current)																																																
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Temperature 25°C
Testing Circuitry Figure A

2. Values

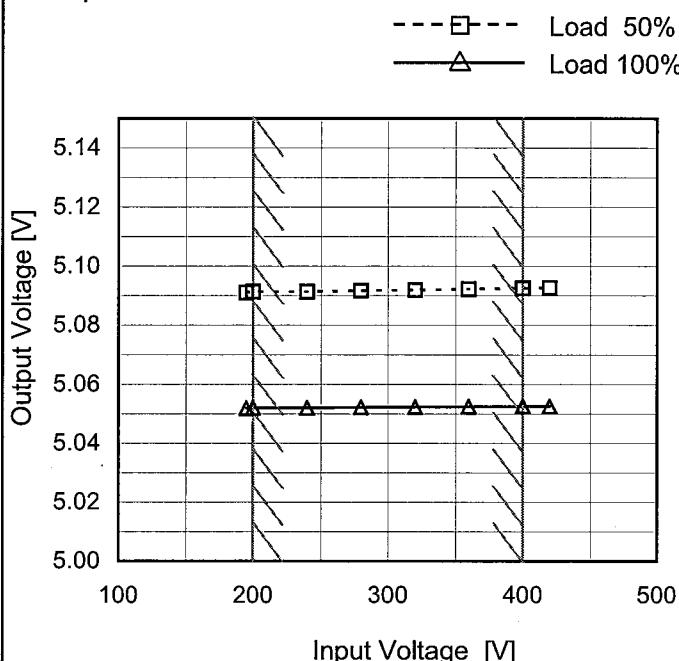
Load Current [A]	Efficiency [%]		
	Input Volt. 200[V]	Input Volt. 280[V]	Input Volt. 400[V]
0	-	-	-
4	75.5	71.8	65.8
8	82.1	79.7	74.1
12	83.6	81.6	77.7
16	83.4	82.0	79.2
20	82.5	81.7	79.5
22	81.8	81.4	79.6
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

COSEL

Model	SNDSH100B05
Item	Line Regulation
Object	+5V20A

 Temperature 25°C
 Testing Circuitry Figure A

1.Graph



2.Values

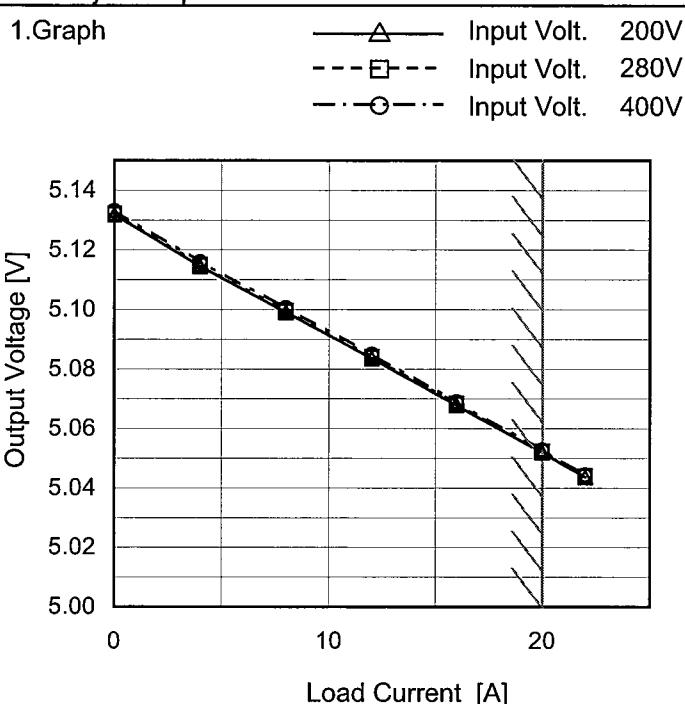
Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
195	5.091	5.052
200	5.091	5.052
240	5.091	5.052
280	5.092	5.052
320	5.092	5.052
360	5.092	5.053
400	5.093	5.053
420	5.093	5.053
--	-	-

Note: Slanted line shows the range of the rated input voltage.

COSEL

Model	SNDSH100B05
Item	Load Regulation
Object	+5V20A

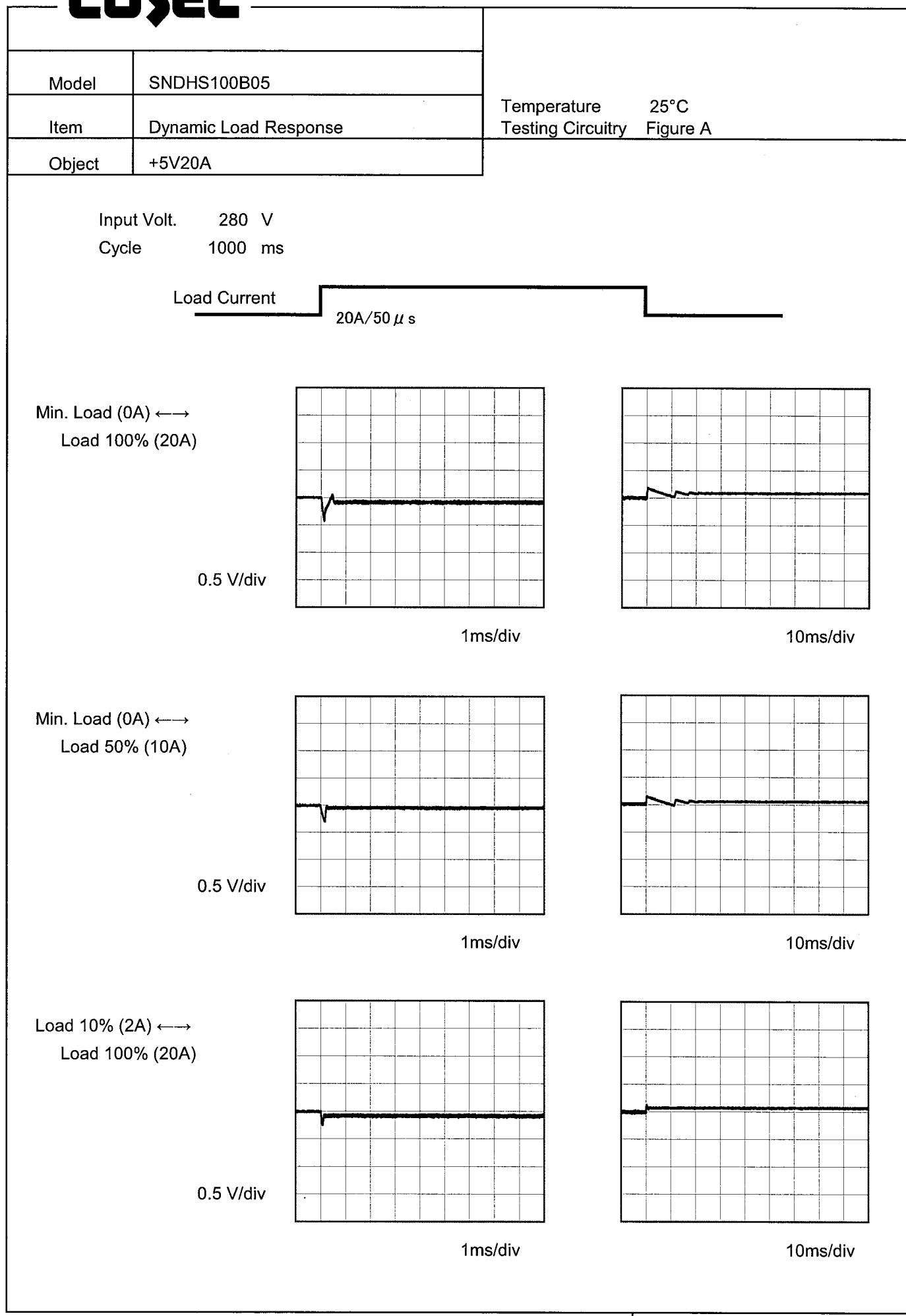
Temperature 25°C
 Testing Circuitry Figure A



2. Values

Load Current [A]	Output Voltage [V]		
	Input Volt. 200[V]	Input Volt. 280[V]	Input Volt. 400[V]
0	5.132	5.132	5.133
4	5.115	5.115	5.116
8	5.099	5.100	5.101
12	5.084	5.084	5.085
16	5.068	5.068	5.069
20	5.052	5.052	5.053
22	5.044	5.044	5.044
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

Note: Slanted line shows the range of the rated load current.

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Model	SNDHS100B05	Temperature Testing Circuitry	25°C Figure B																																						
Item	Ripple Voltage (by Load Current)																																								
Object	+5V20A																																								
1.Graph			2.Values																																						
<p>Graph showing Ripple Voltage [mV] vs Load Current [A]. The Y-axis ranges from 0 to 300 mV, and the X-axis ranges from 0 to 25 A. Two data series are plotted: Input Volt. 200V (solid line with triangle markers) and Input Volt. 400V (dashed line with circle markers). Both series show a slight increase in ripple voltage with load current, with a significant increase starting around 15A. A slanted line indicates the rated load current range.</p>			<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="2">Ripple Voltage [mV]</th> </tr> <tr> <th>Input Volt. 200 [V]</th> <th>Input Volt. 400 [V]</th> </tr> </thead> <tbody> <tr><td>0</td><td>5</td><td>5</td></tr> <tr><td>4</td><td>10</td><td>15</td></tr> <tr><td>8</td><td>15</td><td>15</td></tr> <tr><td>12</td><td>15</td><td>20</td></tr> <tr><td>16</td><td>15</td><td>30</td></tr> <tr><td>20</td><td>20</td><td>30</td></tr> <tr><td>22</td><td>20</td><td>30</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </tbody> </table>	Load Current [A]	Ripple Voltage [mV]		Input Volt. 200 [V]	Input Volt. 400 [V]	0	5	5	4	10	15	8	15	15	12	15	20	16	15	30	20	20	30	22	20	30	--	-	-	--	-	-	--	-	-	--	-	-
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<p>Measured by 100 MHz Oscilloscope. Ripple Voltage is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p> <p>Ripple [mVp-p]</p> <p>Fig.Complex Ripple Wave Form</p>																																									

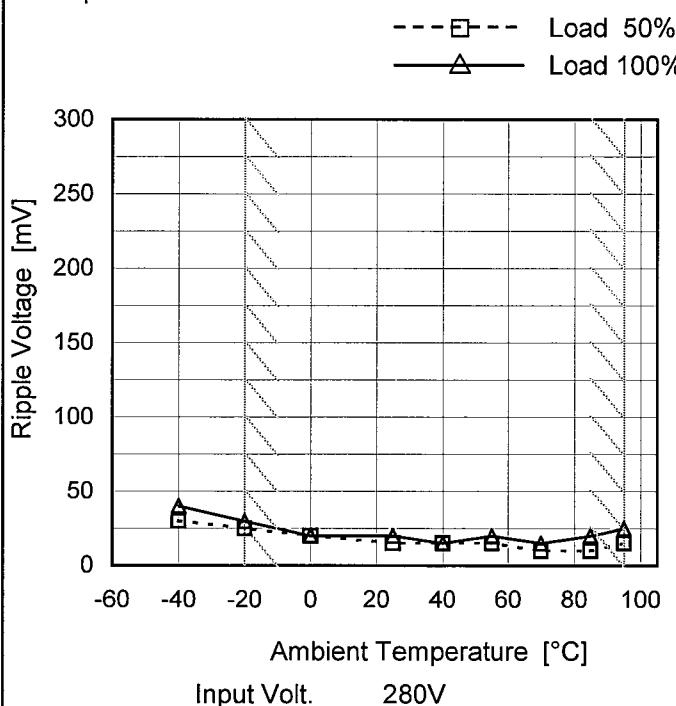
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Model	SNDHS100B05	Temperature Testing Circuitry	25°C Figure B																																				
Item	Ripple-Noise																																						
Object	+5V20A																																						
1. Graph			2. Values																																				
<p>Graph showing Ripple-Noise [mV] vs Load Current [A]. The graph shows two sets of data points: Input Volt. 200V (solid line with triangle markers) and Input Volt. 400V (dashed line with circle markers). The x-axis represents Load Current [A] from 0 to 25. The y-axis represents Ripple-Noise [mV] from 0 to 300. A slanted line at approximately 18A indicates the rated load current range.</p> <table border="1"> <thead> <tr> <th>Load Current [A]</th> <th>Ripple-Noise [mV] (Input Volt. 200V)</th> <th>Ripple-Noise [mV] (Input Volt. 400V)</th> </tr> </thead> <tbody> <tr><td>0</td><td>20</td><td>30</td></tr> <tr><td>4</td><td>25</td><td>45</td></tr> <tr><td>8</td><td>30</td><td>60</td></tr> <tr><td>12</td><td>45</td><td>60</td></tr> <tr><td>16</td><td>55</td><td>65</td></tr> <tr><td>20</td><td>65</td><td>75</td></tr> <tr><td>22</td><td>70</td><td>80</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </tbody> </table>				Load Current [A]	Ripple-Noise [mV] (Input Volt. 200V)	Ripple-Noise [mV] (Input Volt. 400V)	0	20	30	4	25	45	8	30	60	12	45	60	16	55	65	20	65	75	22	70	80	--	-	-	--	-	-	--	-	-	--	-	-
Load Current [A]	Ripple-Noise [mV] (Input Volt. 200V)	Ripple-Noise [mV] (Input Volt. 400V)																																					
0	20	30																																					
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<p>Measured by 100 MHz Oscilloscope. Ripple-Noise is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p>																																							
<p>Fig. Complex Ripple Noise Wave Form</p>																																							

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Model	SNDHS100B05
Item	Ripple Voltage (by Ambient Temp.)
Object	+5V20A

1. Graph



Measured by 100 MHz Oscilloscope.

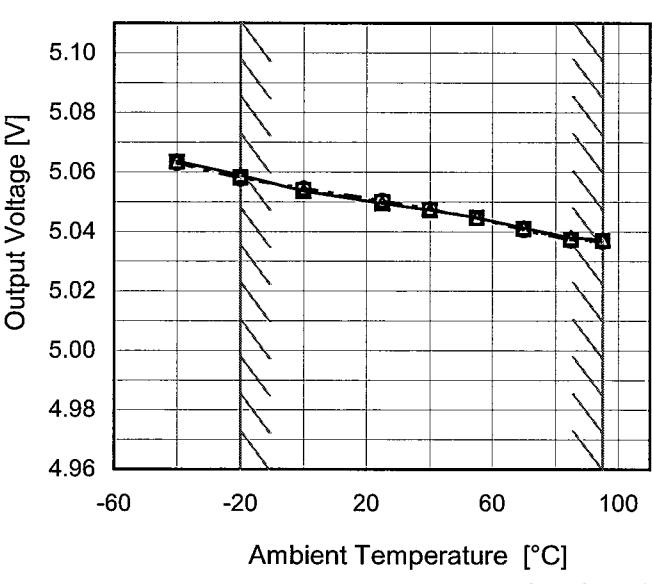
Note: Slanted line shows the range of the rated ambient temperature.

Testing Circuitry Figure B

2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-40	30	40
-20	25	30
0	20	20
25	15	20
40	15	15
55	15	20
70	10	15
85	10	20
95	15	25
--	-	-
--	-	-

COSEL

Model	SNDSH100B05	Testing Circuitry Figure A																																																					
Item	Ambient Temperature Drift																																																						
Object	+5V20A																																																						
1.Graph	<p style="text-align: center;"> — ▲ — Input Volt. 200V --- □ --- Input Volt. 280V --- ○ --- Input Volt. 400V </p>  <p style="text-align: center;">Load 100%</p>	2.Values																																																					
		<table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th> <th colspan="3">Output Voltage [V]</th> </tr> <tr> <th>Input Volt. 200[V]</th> <th>Input Volt. 280[V]</th> <th>Input Volt. 400[V]</th> </tr> </thead> <tbody> <tr> <td>-40</td> <td>5.064</td> <td>5.064</td> <td>5.063</td> </tr> <tr> <td>-20</td> <td>5.059</td> <td>5.058</td> <td>5.058</td> </tr> <tr> <td>0</td> <td>5.054</td> <td>5.054</td> <td>5.055</td> </tr> <tr> <td>25</td> <td>5.050</td> <td>5.050</td> <td>5.050</td> </tr> <tr> <td>40</td> <td>5.047</td> <td>5.047</td> <td>5.048</td> </tr> <tr> <td>55</td> <td>5.045</td> <td>5.045</td> <td>5.045</td> </tr> <tr> <td>70</td> <td>5.041</td> <td>5.041</td> <td>5.041</td> </tr> <tr> <td>85</td> <td>5.038</td> <td>5.037</td> <td>5.037</td> </tr> <tr> <td>95</td> <td>5.038</td> <td>5.037</td> <td>5.037</td> </tr> <tr> <td>--</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>--</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table>			Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 200[V]	Input Volt. 280[V]	Input Volt. 400[V]	-40	5.064	5.064	5.063	-20	5.059	5.058	5.058	0	5.054	5.054	5.055	25	5.050	5.050	5.050	40	5.047	5.047	5.048	55	5.045	5.045	5.045	70	5.041	5.041	5.041	85	5.038	5.037	5.037	95	5.038	5.037	5.037	--	-	-	-	--	-	-	-
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Note: Slanted line shows the range of the rated ambient temperature.



Model	SNDSH100B05	Testing Circuitry Figure A
Item	Output Voltage Accuracy	
Object	+5V20A	

1. Output Voltage Accuracy

This is defined as the value of the output voltage, regulation load, ambient temperature and input voltage varied at random in the range as specified below.

Temperature : -20 - 95°C

Input Voltage : 200 - 400V

Load Current : 0 - 20A

* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

$$\text{* Output Voltage Accuracy (Ration)} = \frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$$

2. Values

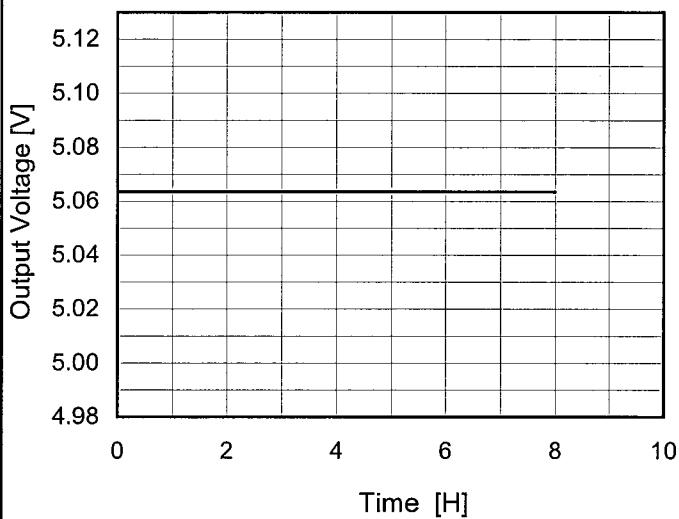
Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	95	200	0	5.136	± 50	± 1.0
Minimum Voltage	95	400	20	5.037		

COSEL

Model	SNDH100B05
Item	Time Lapse Drift
Object	+5V20A

Temperature 25°C
Testing Circuitry Figure A

1.Graph



2.Values

Time since start [H]	Output Voltage [V]
0.0	5.064
0.5	5.064
1.0	5.064
2.0	5.064
3.0	5.064
4.0	5.064
5.0	5.064
6.0	5.064
7.0	5.064
8.0	5.064

COSEL

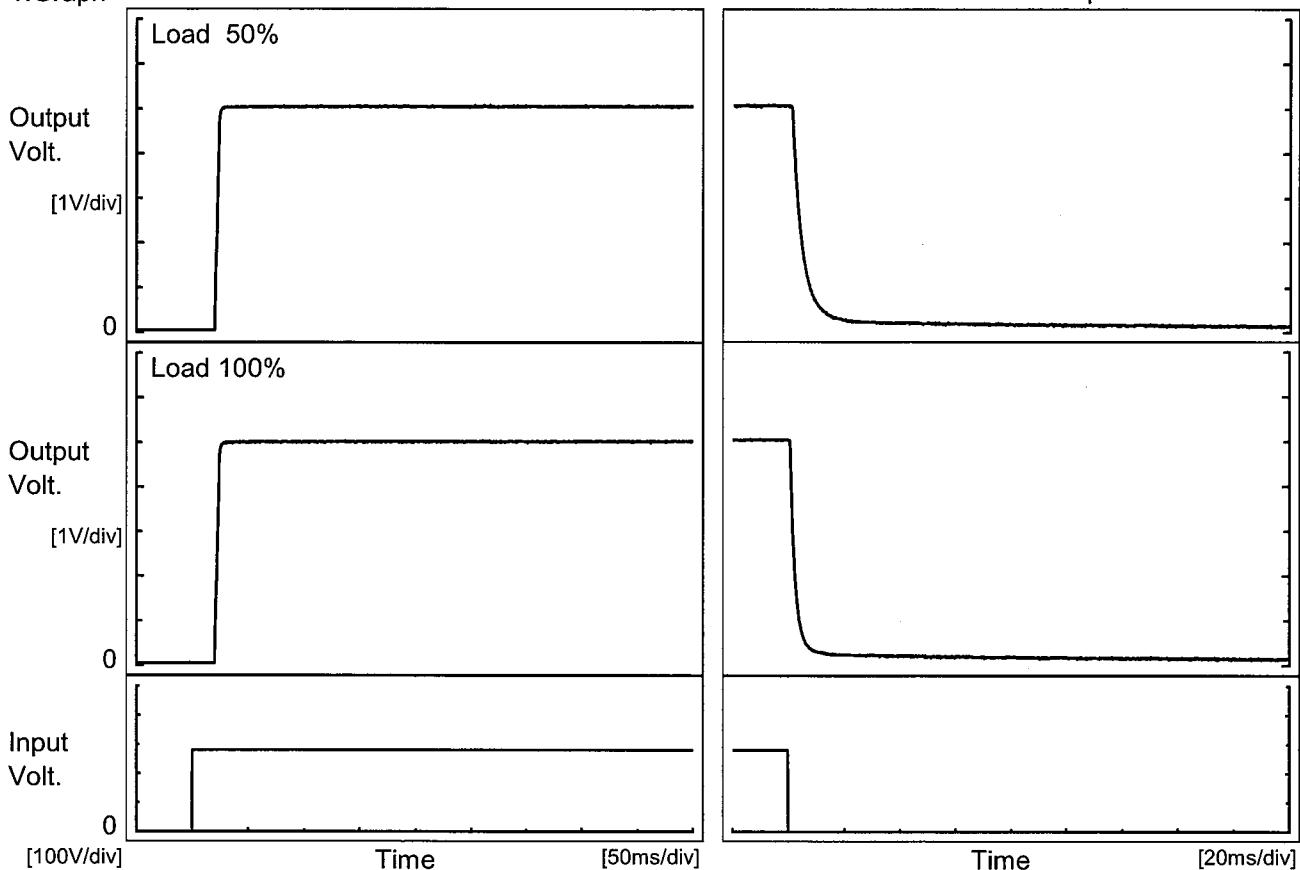
Model SNDH100B05

Item Rise and Fall Time

Object +5V20A

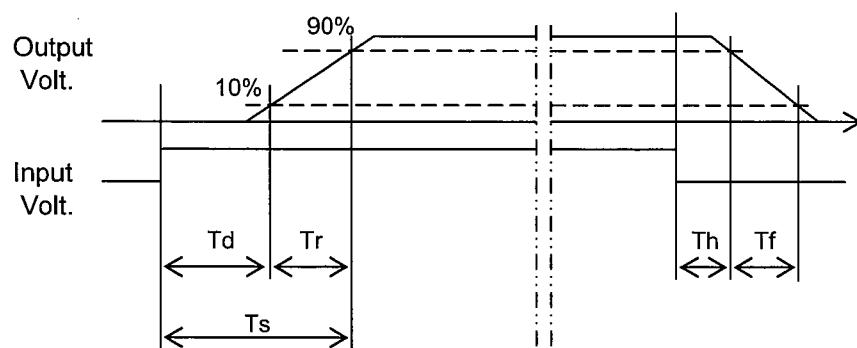
Temperature 25°C
Testing Circuitry Figure A

1.Graph



2.Values

Load	Time	Td	Tr	Ts	Th	Tf	[ms]
50 %		20.5	3.5	24.0	1.4	10.1	
100 %		20.5	3.8	24.3	0.8	5.0	



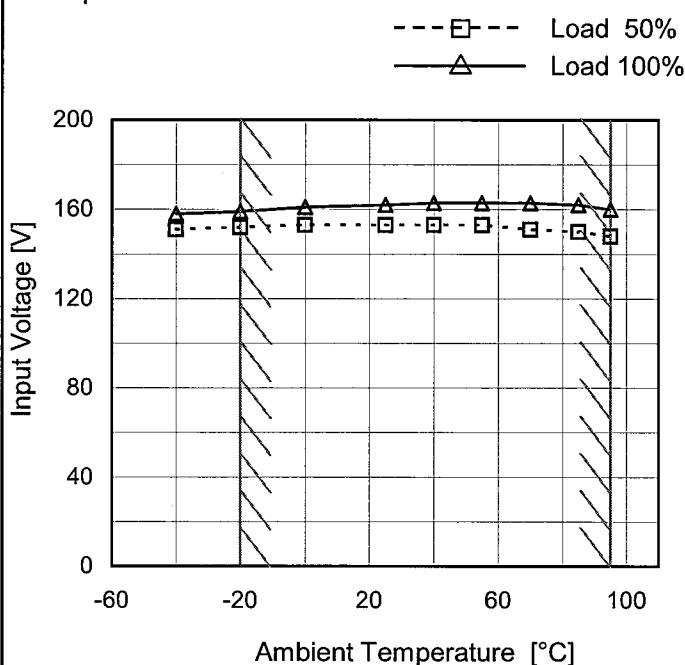
COSEL

Model SNDSH100B05

Item Minimum Input Voltage
for Regulated Output Voltage

Object +5V20A

1.Graph



Note: Slanted line shows the range of the rated ambient temperature.

Testing Circuitry Figure A

2.Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-40	151	158
-20	152	159
0	153	161
25	153	162
40	153	163
55	153	163
70	151	163
85	150	162
95	148	160
--	-	-
--	-	-

COSEL

Model	SNDSH100B05
Item	Overcurrent Protection
Object	+5V20A

1.Graph

Output Voltage [V]

Load Current [A]

Note: Slanted line shows the range of the rated load current.

Temperature 25°C
Testing Circuitry Figure A

2.Values

Output Voltage [V]	Load Current [A]		
	Input Volt. 200[V]	Input Volt. 280[V]	Input Volt. 400[V]
4.5	24.24	25.99	28.68
4.0	24.77	26.66	28.90
3.5	25.31	27.42	29.31
3.0	25.84	28.07	29.81
2.5	26.30	28.50	29.74
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

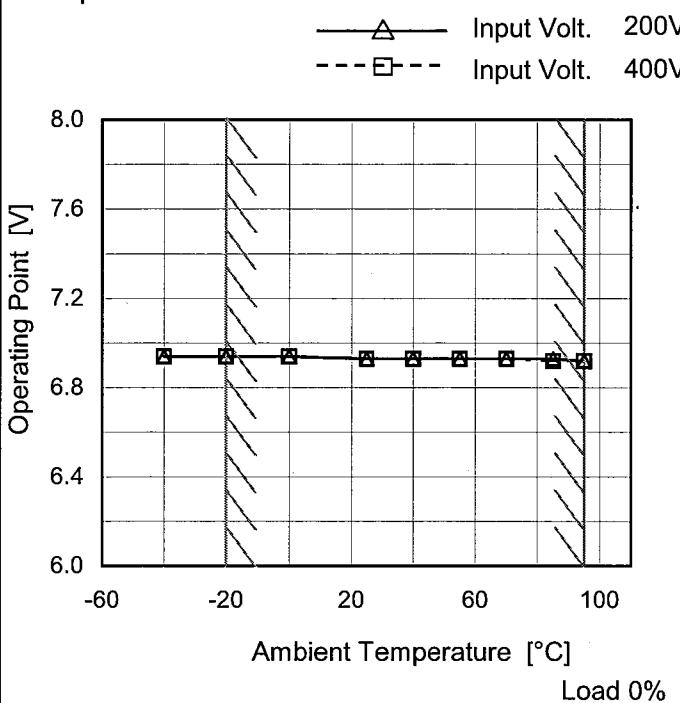
COSEL

Model SNDH100B05

Item Overvoltage Protection

Object +5V20A

1.Graph



Note: Slanted line shows the range of the rated ambient temperature.

Testing Circuitry Figure A

2.Values

Ambient Temperature [°C]	Operating Point [V]	
	Input Volt. 200[V]	Input Volt. 400[V]
-40	6.94	6.94
-20	6.94	6.94
0	6.94	6.94
25	6.93	6.93
40	6.93	6.93
55	6.93	6.93
70	6.93	6.93
85	6.93	6.92
95	6.92	6.92
--	-	-
--	-	-

COSEL

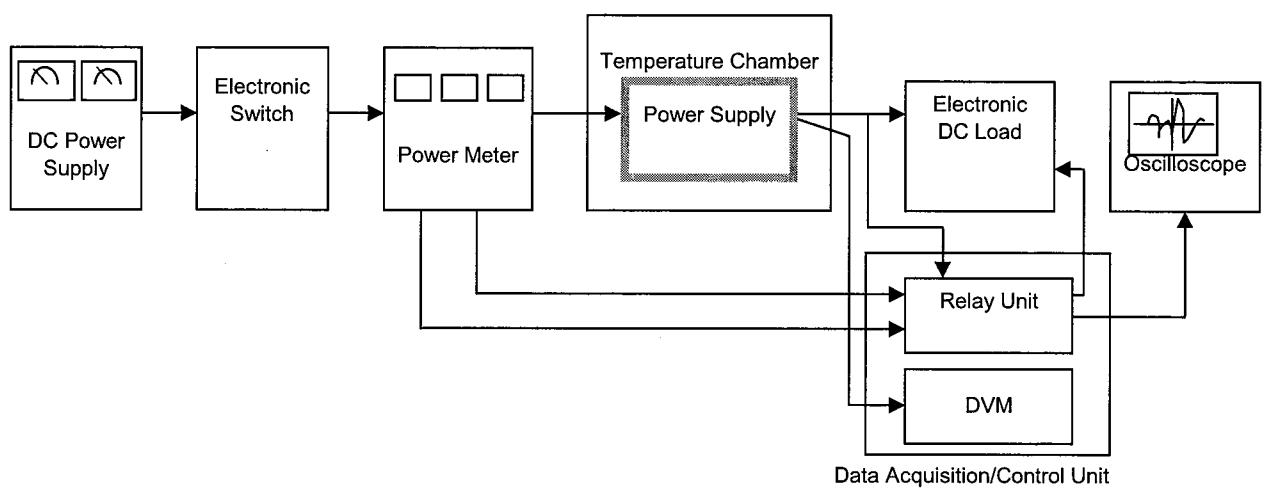


Figure A

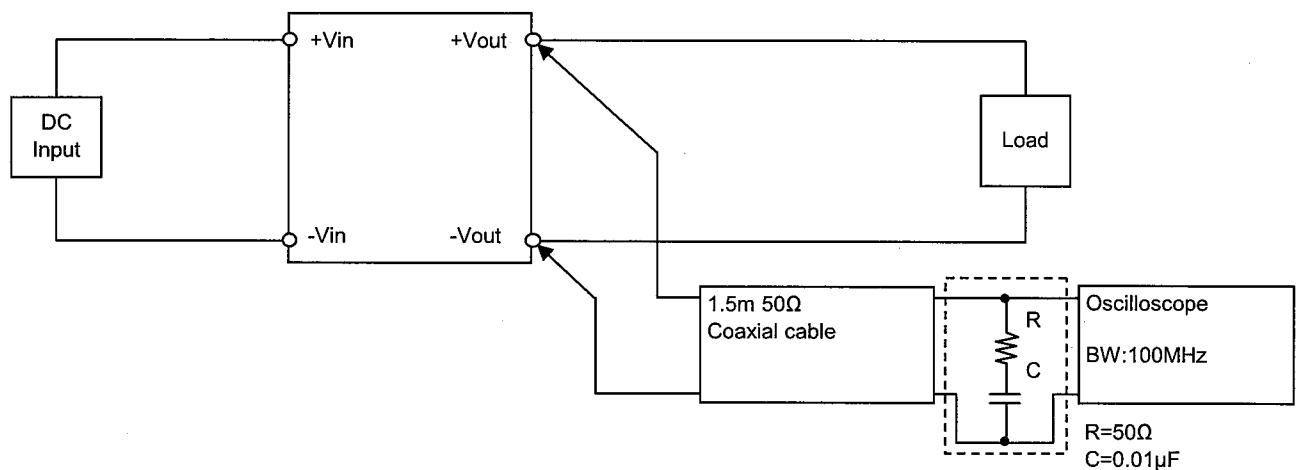


Figure B (Ripple and Ripple noise Characteristic)