

# TEST DATA OF SNDPG750

(200V INPUT)

AC-DC Front End Module  
June 30, 2011

Approved by : Takahiro Yoneda  
Takahiro Yoneda Design Manager

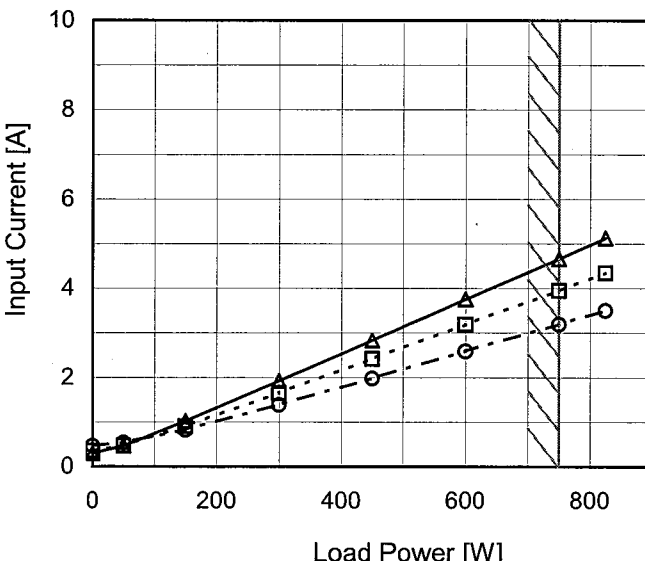
Prepared by : Tadashi Arai  
Tadashi Arai Design Engineer

**COSEL CO.,LTD.**

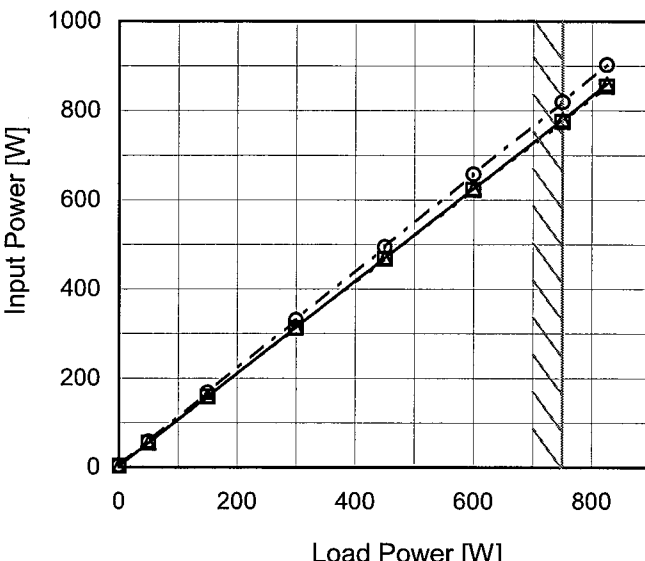
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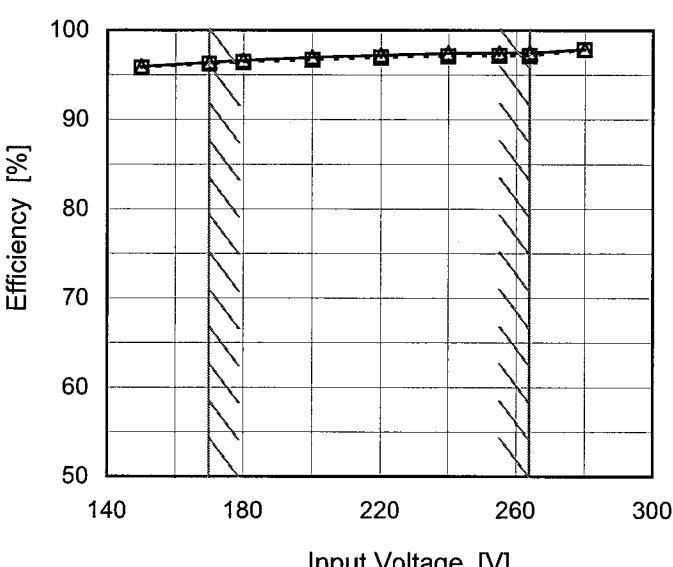
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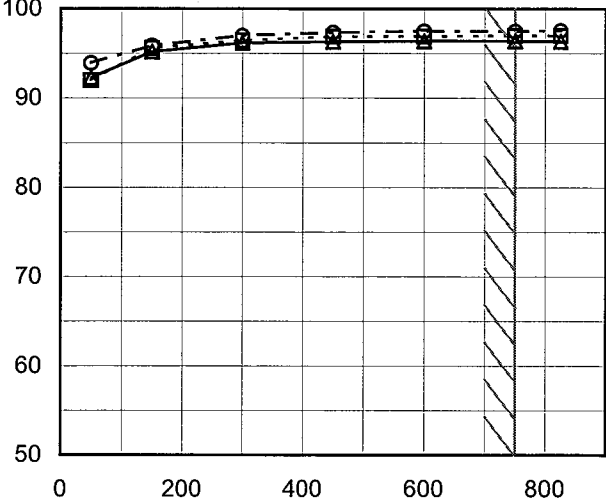
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Model		SNDPG750																																																				
Item		Input Current (by Load Power)																																																				
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1.Graph																																																						
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# COSEL

Model		SNDPG750		Temperature		25°C																																																				
Item		Input Power (by Load Power)		Testing Circuitry		Figure A																																																				
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<div><div><div>—△—</div><div>Input Volt.</div><div>170V</div></div><div><div>---□---</div><div>Input Volt.</div><div>200V</div></div><div><div>-·-○-·-</div><div>Input Volt.</div><div>264V</div></div></div>  <p>Note: Slanted line shows the range of the rated load power.</p>				<table><tr><th rowspan="2">Load Power [W]</th><th colspan="3">Input Power [W]</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>0</td><td>3.0</td><td>3.2</td><td>4.1</td></tr><tr><td>50</td><td>55.5</td><td>55.5</td><td>58.5</td></tr><tr><td>150</td><td>159.3</td><td>158.6</td><td>168.1</td></tr><tr><td>300</td><td>314.3</td><td>313.0</td><td>331.0</td></tr><tr><td>450</td><td>470.2</td><td>467.9</td><td>494.7</td></tr><tr><td>600</td><td>625.9</td><td>622.5</td><td>658.0</td></tr><tr><td>750</td><td>780.0</td><td>775.5</td><td>819.6</td></tr><tr><td>825</td><td>859.6</td><td>854.5</td><td>902.7</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></table>				Load Power [W]	Input Power [W]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0	3.0	3.2	4.1	50	55.5	55.5	58.5	150	159.3	158.6	168.1	300	314.3	313.0	331.0	450	470.2	467.9	494.7	600	625.9	622.5	658.0	750	780.0	775.5	819.6	825	859.6	854.5	902.7	--	-	-	-	--	-	-	-	--	-	-	-
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Model		SNDPG750		Temperature 25°C	
Item		Efficiency (by Load Power)		Testing Circuitry Figure A	
Object					
1.Graph					
		—△— Input Volt. 170V			
		---□--- Input Volt. 200V			
		-·-○-·- Input Volt. 264V			
Efficiency [%]					
Load Power [W]					
Note: Slanted line shows the range of the rated load power.					
2.Values					
Load Power [W]		Efficiency [%]			
		Input Volt. 170[V] Input Volt. 200[V] Input Volt. 264[V]			
0		- - -			
50		92.3 92.0 93.9			
150		95.2 95.6 95.9			
300		96.2 96.5 97.0			
450		96.3 96.9 97.3			
600		96.4 96.9 97.5			
750		96.4 97.0 97.5			
825		96.4 97.0 97.5			
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Model

SNDPG750

Item

Power Factor (by Input Voltage)

Object

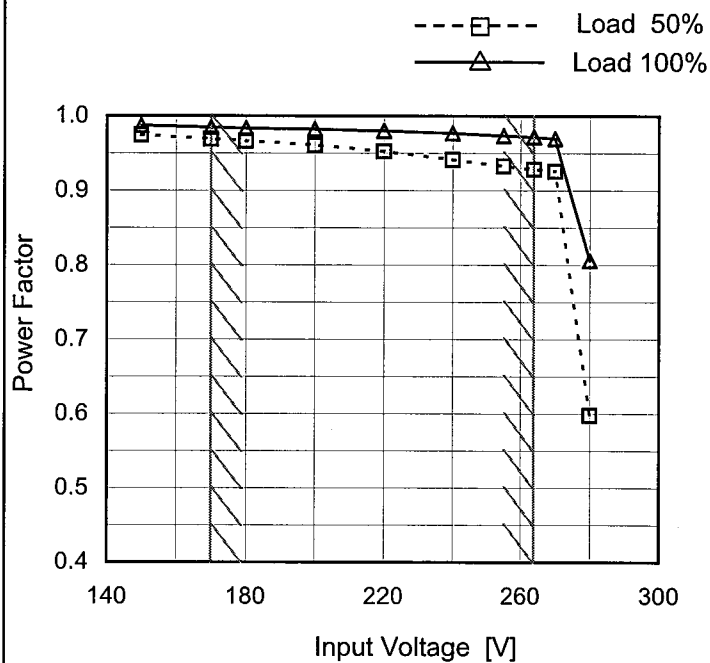
Temperature

25°C

Testing Circuitry

Figure A

## 1. Graph



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

## 2. Values

Input Voltage [V]	Power Factor	
	Load 50%	Load 100%
150	0.975	0.988
170	0.969	0.985
180	0.966	0.984
200	0.961	0.982
220	0.952	0.980
240	0.941	0.977
255	0.933	0.974
264	0.929	0.972
270	0.926	0.970
280	0.598	0.806

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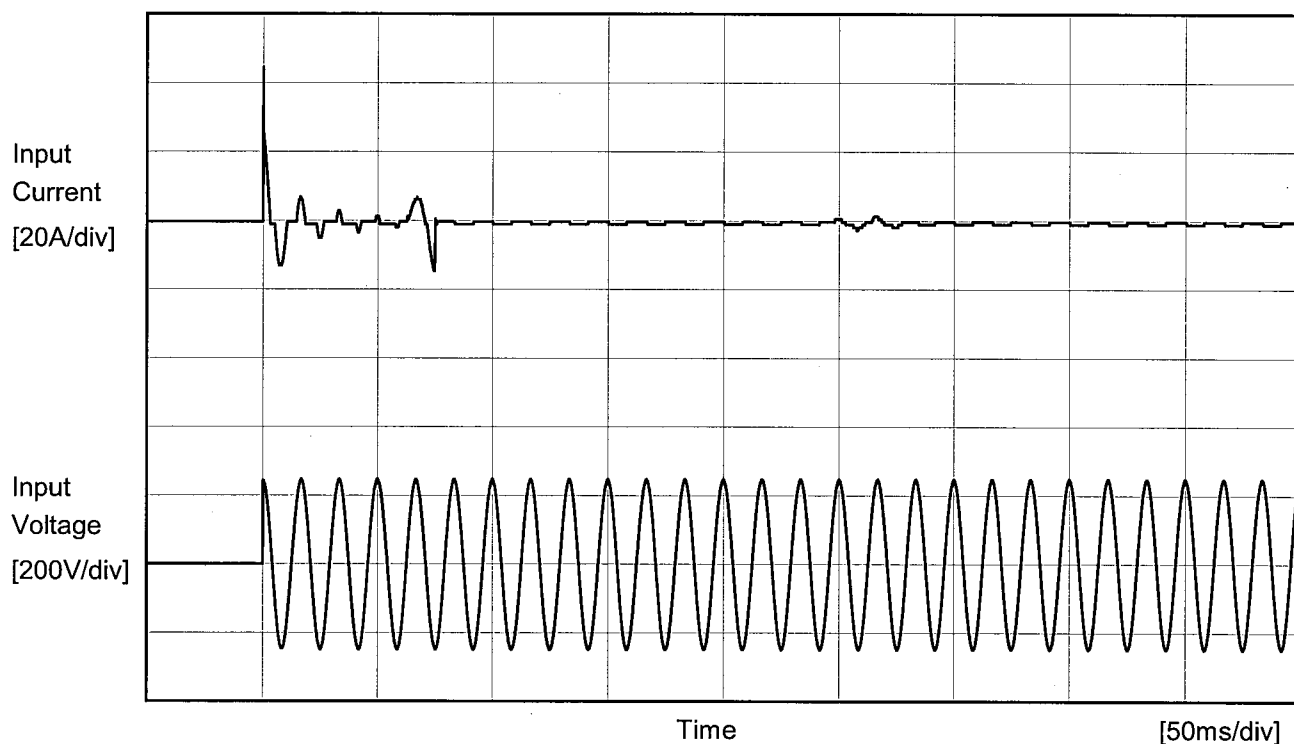
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# COSEL

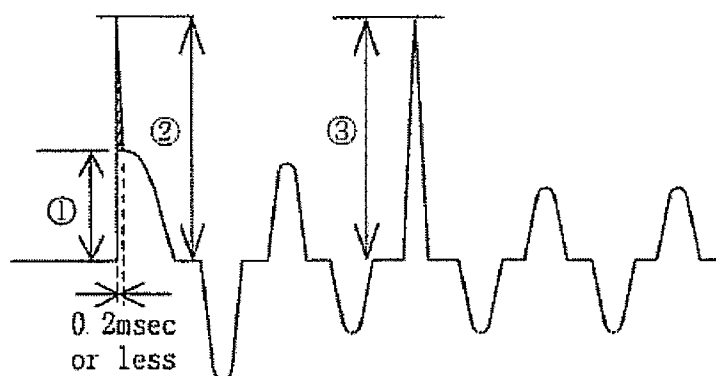
Model	SNDPG750	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current	
Object	_____	



Input Voltage 200 V  
Frequency 60 Hz  
Load 0 %

inrush current

- ① 26A Primary inrush current
- ② 44.5A (0.2msec or less)※1
- ③ 14.7A Secondary inrush current



※1 The specification of the inrush current (primary surge) means that the surge current to a built-in noise filter (0.2msec or less : waveform ②) is excluded.

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		Temperature 25°C Testing Circuitry Figure B
Model	SNDPG750	
Item	Leakage Current	
Object	_____	

## 1.Results

Standards	Leakage Current [mA]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
(A)DEN-AN	-	-	-
(B)IEC60950-1	-	-	-

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 240 [V]	Input Volt. 264 [V]
(B)IEC60950-1	0.25	0.29	0.38

## 2.Condition

Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.

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Model		SNDPG750																																	
Item		Line Regulation																																	
Object		+360V 750W																																	
1.Graph		2.Values																																	
<div><div><div><div>---</div><div>□</div><div>---</div></div><div>Load 50%</div></div><div><div>---</div><div>△</div><div>---</div></div><div>Load 100%</div></div> <p>Note: Slanted line shows the range of the rated input voltage.</p>		<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Output Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>150</td><td>360.35</td><td>360.35</td></tr><tr><td>170</td><td>360.36</td><td>360.37</td></tr><tr><td>180</td><td>360.35</td><td>360.38</td></tr><tr><td>200</td><td>360.36</td><td>360.39</td></tr><tr><td>220</td><td>360.37</td><td>360.39</td></tr><tr><td>240</td><td>360.37</td><td>360.40</td></tr><tr><td>255</td><td>374.19</td><td>374.22</td></tr><tr><td>264</td><td>383.00</td><td>383.02</td></tr><tr><td>280</td><td>384.87</td><td>385.53</td></tr></table>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	150	360.35	360.35	170	360.36	360.37	180	360.35	360.38	200	360.36	360.39	220	360.37	360.39	240	360.37	360.40	255	374.19	374.22	264	383.00	383.02	280	384.87	385.53
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<div><div><div><div>Output Voltage [V]</div><div>420.00</div><div>400.00</div><div>380.00</div><div>360.00</div><div>340.00</div><div>320.00</div><div>300.00</div><div>280.00</div></div><div><div><div>0.0</div><div>200.0</div><div>400.0</div><div>600.0</div><div>800.0</div></div><div><div>Load Power [W]</div></div></div></div></div>																																																							
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# COSEL

Model	SNDPG750		
Item	Dynamic Load Response	Temperature	25°C
Object	+360V750W	Testing Circuitry	Figure A

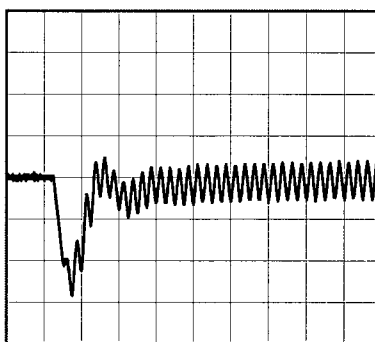
Input Volt. 200 V  
Cycle 1000 ms

Load Current

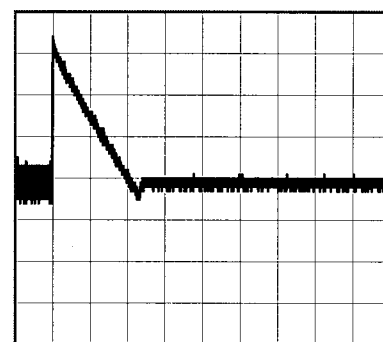


Min. Load (0W)  $\longleftrightarrow$   
Load 100% (750W)

20 V/div



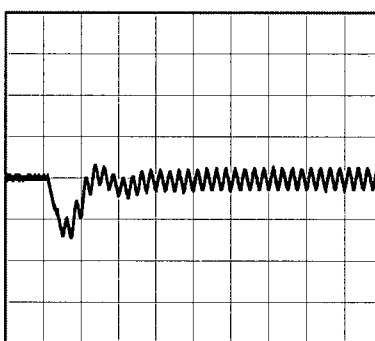
40ms/div



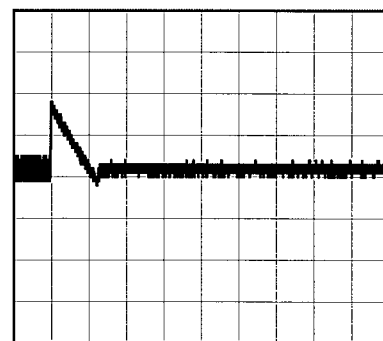
2s/div

Min. Load (0W)  $\longleftrightarrow$   
Load 50% (375W)

20 V/div



40ms/div



2s/div

Model	SNDPG750																																								
Item	Ripple Voltage (by Load Current)	Temperature	25°C																																						
Object	+360V750W	Testing Circuitry	Figure A																																						
1.Graph		2.Values																																							
<div><div><div>—△— Input Volt. 170V</div><div>-·-○-·- Input Volt. 264V</div></div><div>Ripple Voltage [mV]</div><div>Load Power [W]</div></div>		<table><tr><th rowspan="2">Load Power [W]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 170 [V]</th><th>Input Volt. 264 [V]</th></tr><tr><td>0</td><td>0.9</td><td>0.8</td></tr><tr><td>50</td><td>1.9</td><td>1.8</td></tr><tr><td>150</td><td>3.8</td><td>3.7</td></tr><tr><td>300</td><td>6.9</td><td>6.6</td></tr><tr><td>450</td><td>10</td><td>9.6</td></tr><tr><td>600</td><td>13.2</td><td>12.4</td></tr><tr><td>750</td><td>16.1</td><td>14.3</td></tr><tr><td>825</td><td>17.5</td><td>15.8</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></table>		Load Power [W]	Ripple Voltage [mV]		Input Volt. 170 [V]	Input Volt. 264 [V]	0	0.9	0.8	50	1.9	1.8	150	3.8	3.7	300	6.9	6.6	450	10	9.6	600	13.2	12.4	750	16.1	14.3	825	17.5	15.8	--	-	-	--	-	-	--	-	-
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<div>Measured by 20 MHz Oscilloscope.</div> <div>Ripple Voltage is shown as p-p in the figure below.</div> <div>Note: Slanted line shows the range of the rated load power.</div>																																									
<div><div>T1: Due to AC Input Line</div><div>T2: Due to Switching</div><div>Ripple [mVp-p]</div><div>T1</div><div>T2</div></div>																																									
Fig. Complex Ripple Wave Form																																									

Model		SNDPG750																																																				
Item		Ambient Temperature Drift																																																				
Object		+360V 750W																																																				
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>Input Volt. 170V</div></div><div><div>---□---</div><div>Input Volt. 200V</div></div><div><div>-·-○-·-</div><div>Input Volt. 264V</div></div></div> <p>Output Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</p> <p>Note: Slanted line shows the range of the rated ambient temperature.</p>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>-40</td><td>357.60</td><td>357.66</td><td>381.43</td></tr><tr><td>-20</td><td>358.23</td><td>358.28</td><td>380.85</td></tr><tr><td>0</td><td>359.06</td><td>359.10</td><td>381.72</td></tr><tr><td>25</td><td>359.94</td><td>359.98</td><td>382.65</td></tr><tr><td>40</td><td>360.42</td><td>360.45</td><td>383.06</td></tr><tr><td>55</td><td>360.75</td><td>360.78</td><td>383.47</td></tr><tr><td>70</td><td>361.04</td><td>361.07</td><td>383.68</td></tr><tr><td>85</td><td>361.25</td><td>361.27</td><td>383.96</td></tr><tr><td>95</td><td>361.38</td><td>361.40</td><td>384.09</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>		Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	-40	357.60	357.66	381.43	-20	358.23	358.28	380.85	0	359.06	359.10	381.72	25	359.94	359.98	382.65	40	360.42	360.45	383.06	55	360.75	360.78	383.47	70	361.04	361.07	383.68	85	361.25	361.27	383.96	95	361.38	361.40	384.09	--	-	-	-	--	-	-	-
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		Testing Circuitry Figure A
Model	SNDPG750	
Item	Output Voltage Accuracy	
Object	+360V 750W	

### 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 : 170 - 240V

Load Power : 0 - 750W

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

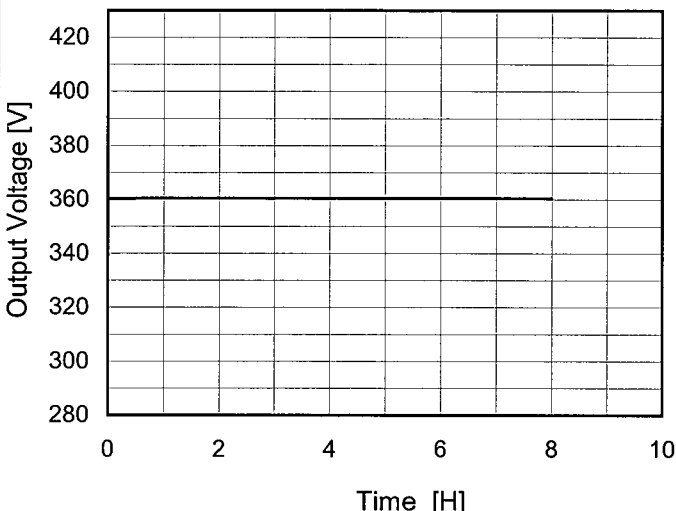
\* Output Voltage Accuracy (Ratio) =  $\frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$

### 2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Power[W]	Voltage[V]	Value [V]	Ration [%]
Maximum Voltage	95	240	0	361.41	±2	±0.4
Minimum Voltage	-20	200	0	358.14		



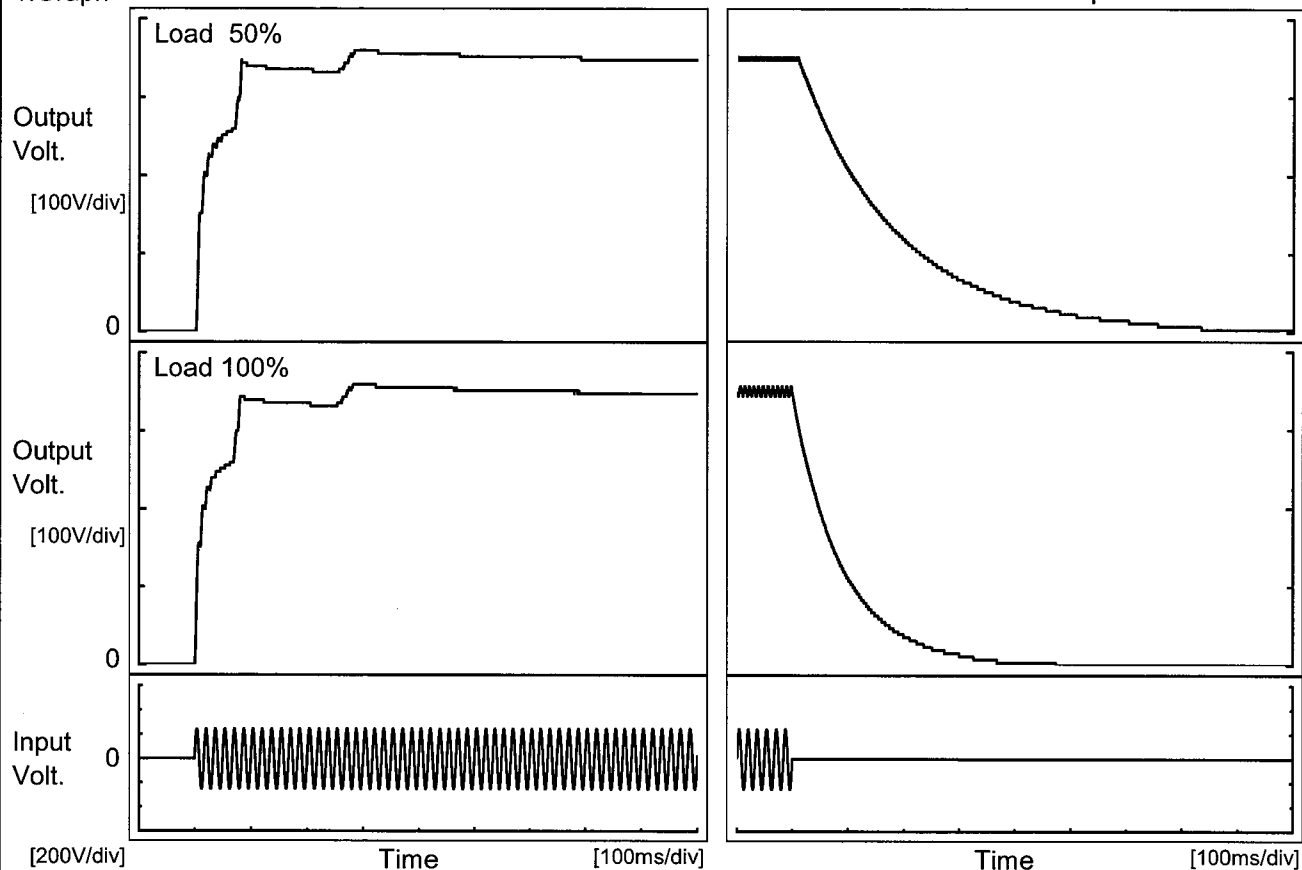
# COSEL

Model	SNDPG750																								
Item	Time Lapse Drift		Temperature 25°C																						
Object	+360V 500W		Testing Circuitry Figure A																						
1.Graph		2.Values																							
<div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 200V</p><p>Load 100%</p></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>360.40</td></tr><tr><td>0.5</td><td>360.50</td></tr><tr><td>1.0</td><td>360.50</td></tr><tr><td>2.0</td><td>360.50</td></tr><tr><td>3.0</td><td>360.50</td></tr><tr><td>4.0</td><td>360.50</td></tr><tr><td>5.0</td><td>360.50</td></tr><tr><td>6.0</td><td>360.50</td></tr><tr><td>7.0</td><td>360.50</td></tr><tr><td>8.0</td><td>360.50</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	360.40	0.5	360.50	1.0	360.50	2.0	360.50	3.0	360.50	4.0	360.50	5.0	360.50	6.0	360.50	7.0	360.50	8.0	360.50
Time since start [H]	Output Voltage [V]																								
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6.0	360.50																								
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8.0	360.50																								

# COSEL

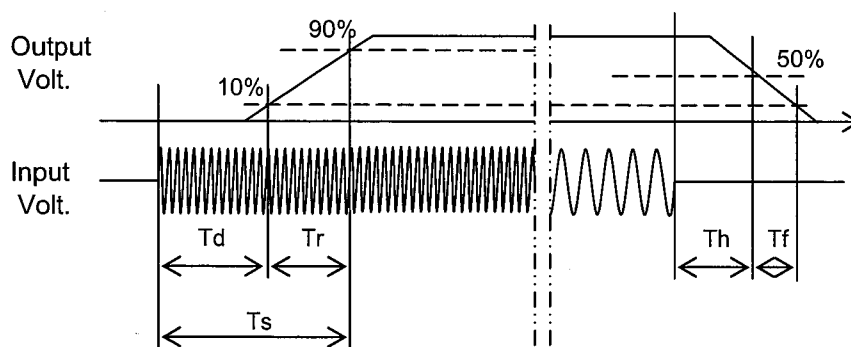
Model	SNDPG750	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+360V 750W		

## 1.Graph



## 2.Values

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	4.0	77.0	81.0	124.0	284.0
100 %	2.0	76.0	78.0	56.0	143.0



Model

SNDPG750

Item

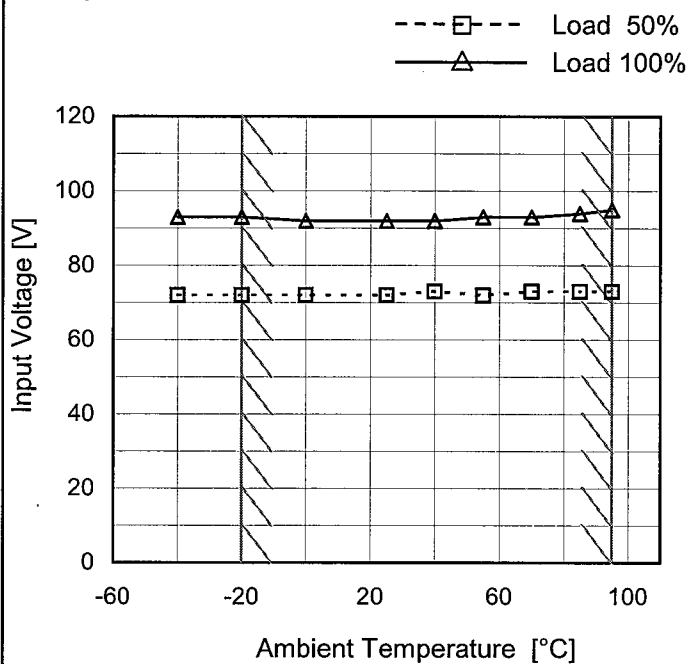
Minimum Input Voltage  
for Regulated Output Voltage

Object

+360V 750W

Testing Circuitry Figure A

## 1. Graph



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

## 2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-40	72	93
-20	72	93
0	72	92
25	72	92
40	73	92
55	72	93
70	73	93
85	73	94
95	73	95
--	-	-
--	-	-



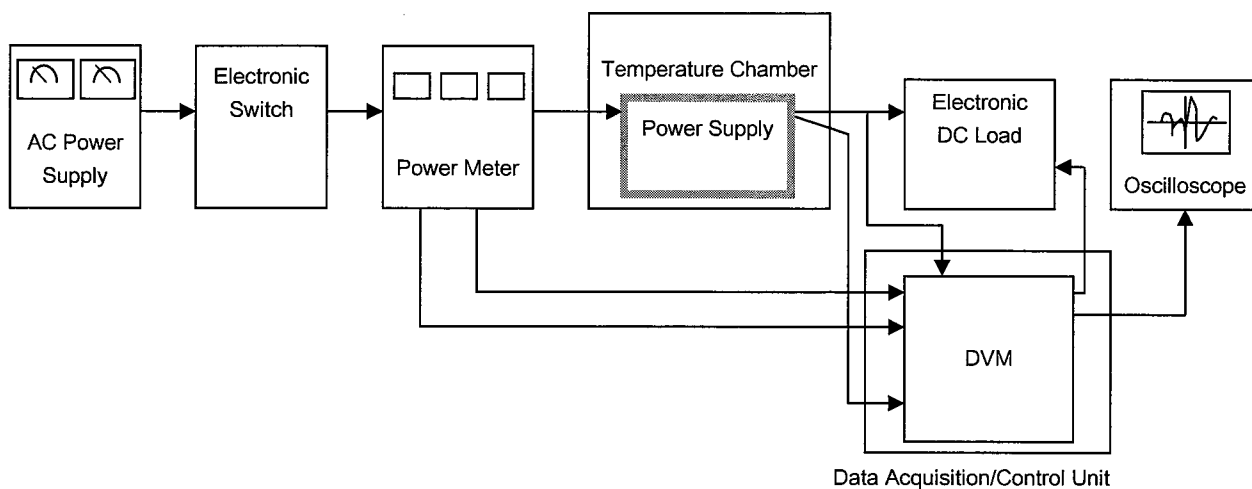


Figure A

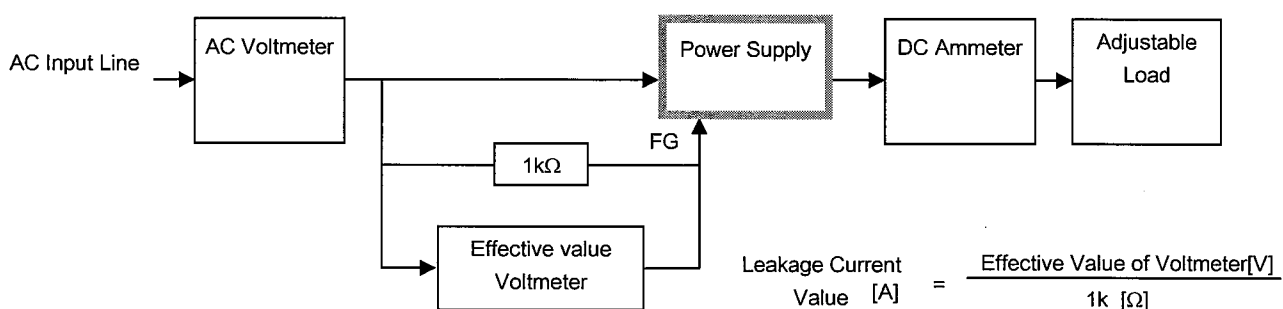


Figure B ( DEN-AN )

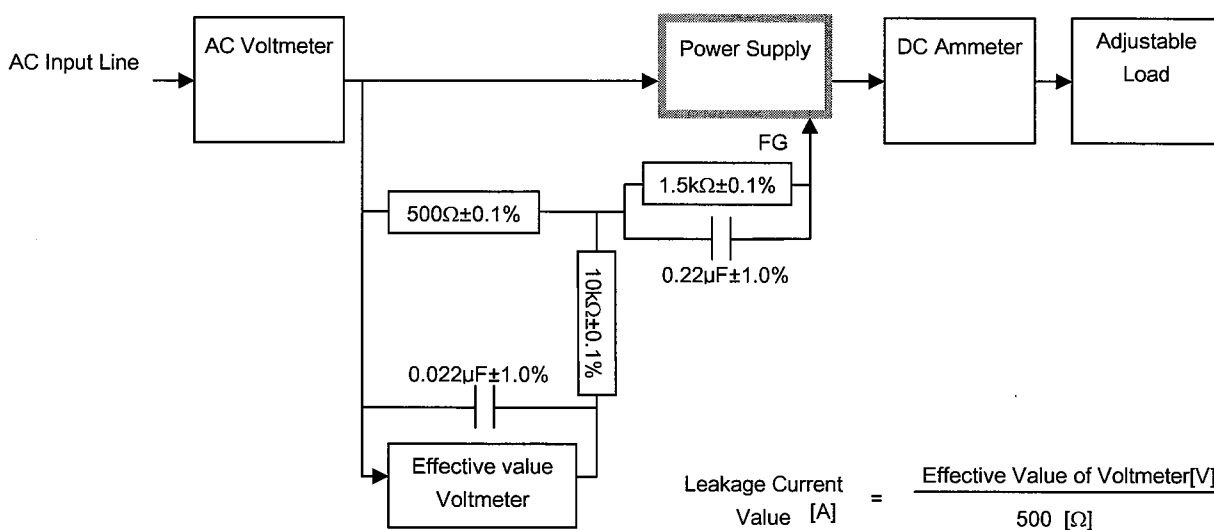


Figure B ( IEC60950-1 )