

TEST DATA OF DPG750

(200V INPUT)

AC-DC Front End Module
March.8. 2010

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COSEL CO.,LTD.

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Model		DPG750																																																				
Item		Input Current (by Load Power)																																																				
Object																																																						
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>Note: Slanted line shows the range of the rated load current.</p>		<table><tr><th rowspan="2">Load Power [W]</th><th colspan="3">Input Current [A]</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>0.30</td><td>0.35</td><td>0.46</td></tr><tr><td>50</td><td>0.47</td><td>0.47</td><td>0.53</td></tr><tr><td>150</td><td>1.03</td><td>0.91</td><td>0.83</td></tr><tr><td>300</td><td>1.93</td><td>1.66</td><td>1.39</td></tr><tr><td>450</td><td>2.84</td><td>2.42</td><td>1.99</td></tr><tr><td>600</td><td>3.75</td><td>3.18</td><td>2.60</td></tr><tr><td>750</td><td>4.64</td><td>3.94</td><td>3.21</td></tr><tr><td>825</td><td>5.10</td><td>4.32</td><td>3.52</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 Current [A]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0	0.30	0.35	0.46	50	0.47	0.47	0.53	150	1.03	0.91	0.83	300	1.93	1.66	1.39	450	2.84	2.42	1.99	600	3.75	3.18	2.60	750	4.64	3.94	3.21	825	5.10	4.32	3.52	--	-	-	-	--	-	-	-	--	-	-	-
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Temperature 25°C
Testing Circuitry Figure A



Load Power [W]	Input Power [W]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0	3.6	2.2	4.4
50	55.6	55.5	59.8
150	159.0	158.5	159.1
300	313.5	312.4	312.7
450	469.6	467.5	467.3
600	624.6	621.4	621.2
750	777.9	773.6	773.1
825	856.7	852.1	851.5
--	-	-	-
--	-	-	-
--	-	-	-

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

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Model		DPG750		Temperature		25°C																																																		
Item		Efficiency (by Load Power)		Testing Circuitry		Figure A																																																		
Object																																																								
1.Graph		<div><div><div>—△—</div><div>---□---</div><div>---○---</div></div><div><div>Input Volt. 170V</div><div>Input Volt. 200V</div><div>Input Volt. 264V</div></div></div>		2.Values																																																				
<div><div>Efficiency [%]</div><div><div><div>100</div><div>90</div><div>80</div><div>70</div><div>60</div><div>50</div></div><div><div>0</div><div>200</div><div>400</div><div>600</div><div>800</div></div><div>Load Power [W]</div></div></div>		<table><tr><th rowspan="2">Load Power [W]</th><th colspan="3">Efficiency [%]</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>-</td><td>-</td><td>-</td></tr><tr><td>50</td><td>91.5</td><td>92.1</td><td>90.5</td></tr><tr><td>150</td><td>95.1</td><td>95.5</td><td>95.7</td></tr><tr><td>300</td><td>96.1</td><td>96.6</td><td>96.9</td></tr><tr><td>450</td><td>96.4</td><td>96.8</td><td>97.3</td></tr><tr><td>600</td><td>96.5</td><td>97.0</td><td>97.5</td></tr><tr><td>750</td><td>96.6</td><td>97.1</td><td>97.5</td></tr><tr><td>825</td><td>96.6</td><td>97.1</td><td>97.6</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]	Efficiency [%]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0	-	-	-	50	91.5	92.1	90.5	150	95.1	95.5	95.7	300	96.1	96.6	96.9	450	96.4	96.8	97.3	600	96.5	97.0	97.5	750	96.6	97.1	97.5	825	96.6	97.1	97.6	—	-	-	-	—	-	-	-	—	-	-	-
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Model	DPG750
Item	Power Factor (by Load Power)
Object	

1.Graph

—△—

Input Volt. 170V

- -□- -

Input Volt. 200V

- -○- -

Input Volt. 264V

Power Factor

Load Power [W]

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

Temperature

25°C

Testing Circuitry

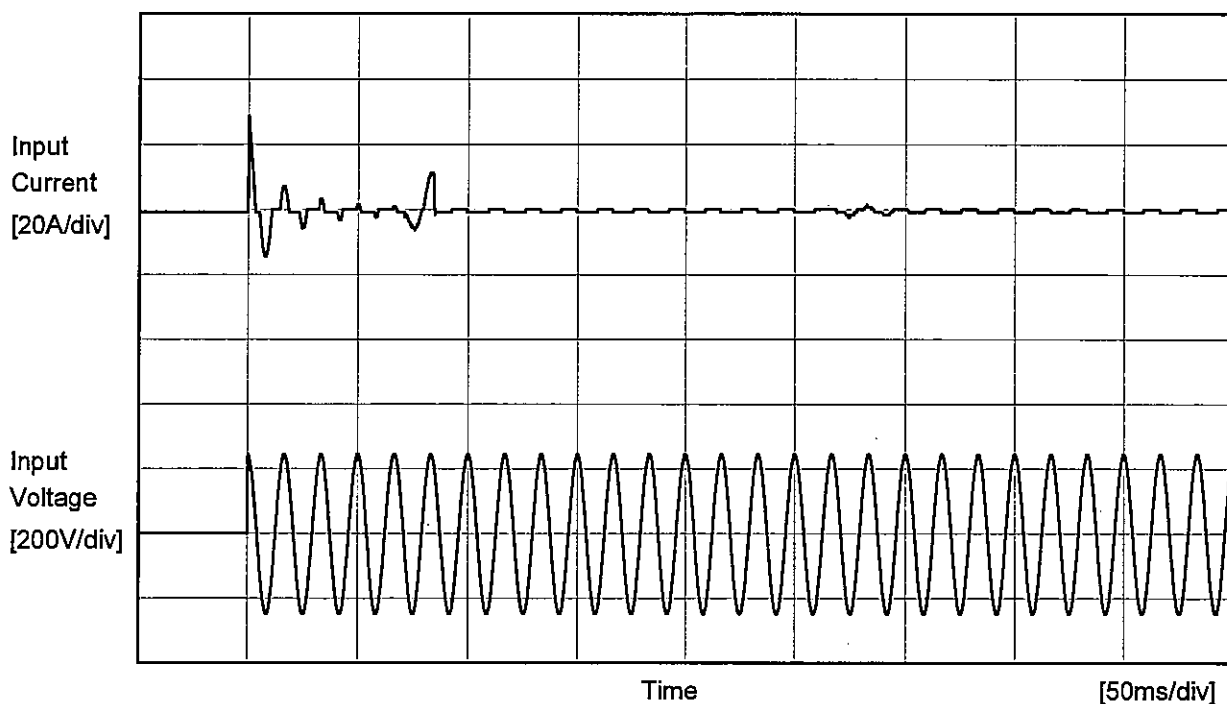
Figure A

2.Values

Load Power [W]	Power Factor		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
50	0.701	0.594	0.426
150	0.904	0.868	0.772
300	0.955	0.943	0.905
450	0.972	0.966	0.945
600	0.981	0.977	0.963
750	0.986	0.983	0.973
825	0.988	0.985	0.976
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

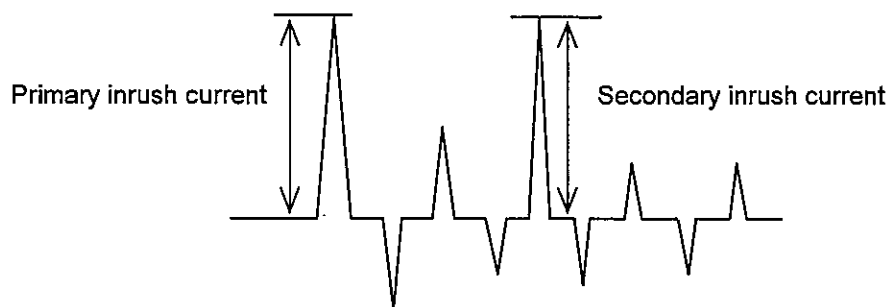
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Model	DPG750	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current	
Object	_____	



Input Voltage 200 V
Frequency 60 Hz
Load 0 %

Primary inrush current 28.8 A
Secondary inrush current 11.2 A



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		Temperature 25°C Testing Circuitry Figure B
Model	DPG750	
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. 230 [V]	Input Volt. 264 [V]
(B)IEC60950-1	0.25	0.31	0.42

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		DPG750	
Item		Line Regulation	
Object		+360V 750W	
1.Graph		2.Values	

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Model

DPG750

Item

Load Regulation

Object

+360V 750W

1.Graph

—△—

Input Volt. 170V

---□---

Input Volt. 200V

---○---

Input Volt. 264V

Output Voltage [V]

420

400

380

360

340

320

300

280

0

200

400

600

800

Load Power [W]

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

2.Values

Load Power [W]	Output Voltage [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0	360.09	360.10	384.99
50	360.09	360.10	384.99
150	360.09	360.10	384.98
300	360.09	360.10	384.98
450	360.09	360.10	384.98
600	360.09	360.10	384.98
750	360.09	360.10	384.98
825	360.09	360.10	384.98
--	-	-	-
--	-	-	-
--	-	-	-

Temperature

25°C

Testing Circuitry

Figure A

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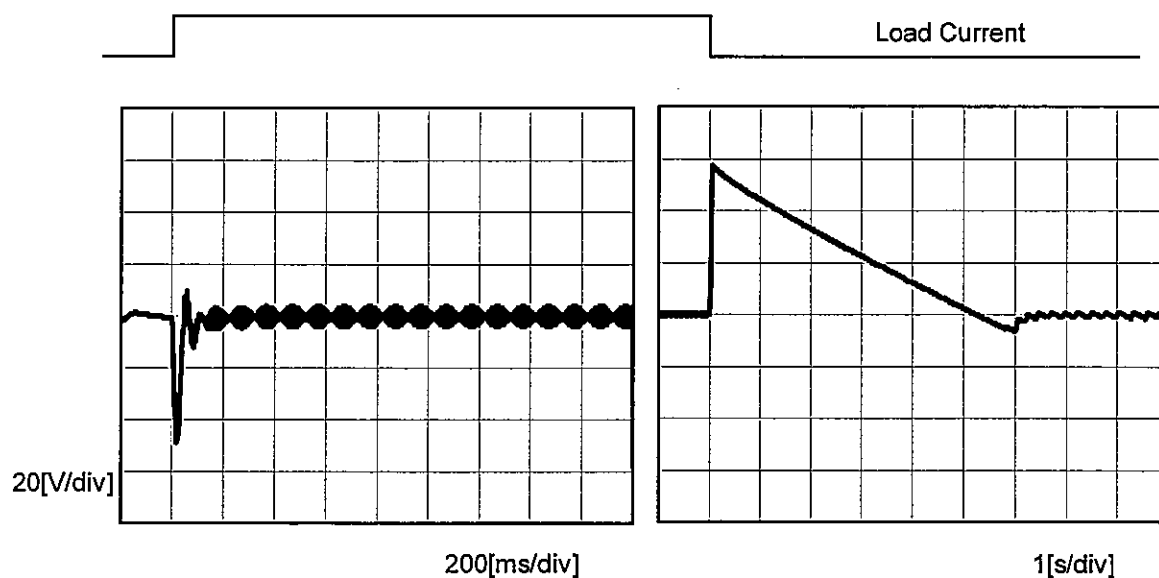
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Model	DPG750	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+360V/750W		

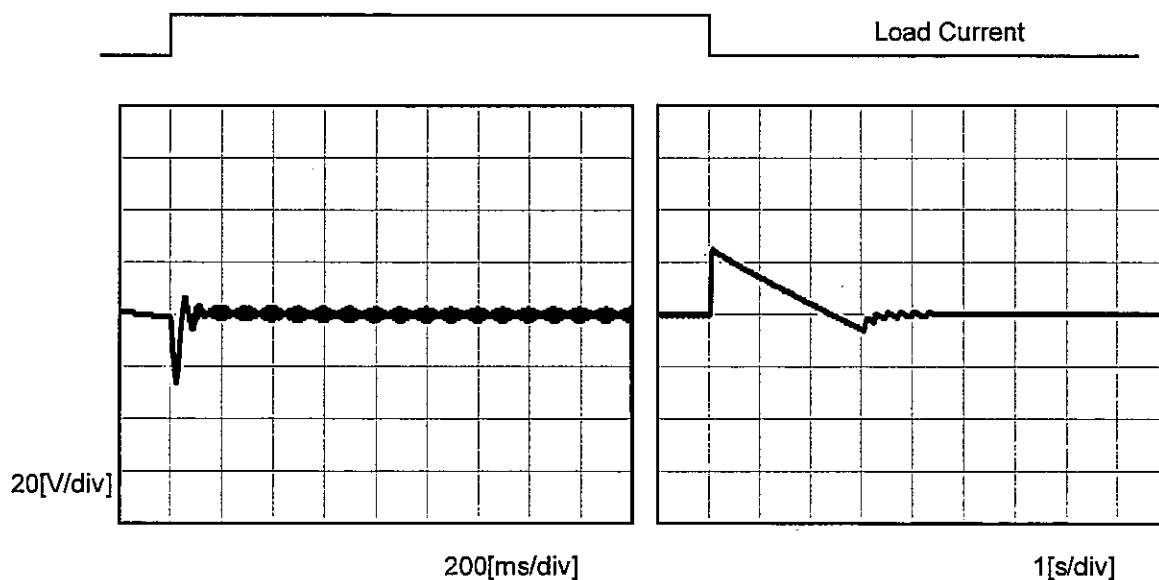
Input Volt. 200 V

Cycle 10 s

Min. Load (0 W) -- Load 100% (750 W)



Min. Load (0 W) -- Load 50% (375 W)



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Model	DPG750																																								
Item	Ripple Voltage (by Load Current)	Temperature	25°C																																						
Object	+360V750W	Testing Circuitry	Figure A																																						
1.Graph		2.Values																																							
<div><div>—△— Input Volt. 170V</div><div>-·-○-·- Input Volt. 264V</div><p>Ripple Voltage [V]</p><p>Load Power [W]</p></div>		<table><tr><th rowspan="2">Load Power [W]</th><th colspan="2">Ripple Voltage [V]</th></tr><tr><th>Input Volt. 170 [V]</th><th>Input Volt. 264 [V]</th></tr><tr><td>0</td><td>1.4</td><td>0.8</td></tr><tr><td>50</td><td>2.1</td><td>2.0</td></tr><tr><td>150</td><td>3.3</td><td>3.2</td></tr><tr><td>300</td><td>5.7</td><td>5.7</td></tr><tr><td>450</td><td>8.0</td><td>8.7</td></tr><tr><td>600</td><td>10.2</td><td>11.0</td></tr><tr><td>750</td><td>12.5</td><td>13.4</td></tr><tr><td>825</td><td>13.5</td><td>15.0</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 [V]		Input Volt. 170 [V]	Input Volt. 264 [V]	0	1.4	0.8	50	2.1	2.0	150	3.3	3.2	300	5.7	5.7	450	8.0	8.7	600	10.2	11.0	750	12.5	13.4	825	13.5	15.0	--	-	-	--	-	-	--	-	-
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<p>Measured by 20 MHz Oscilloscope.</p> <p>Ripple Voltage is shown as p-p in the figure below.</p> <p>Note: Slanted line shows the range of the rated load current.</p>																																									
<div><div>T1: Due to AC Input Line</div><div>T2: Due to Switching</div><p>Ripple [mVp-p]</p><p>T1</p><p>T2</p></div>																																									
<p>Fig. Complex Ripple Wave Form</p>																																									

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Model		DPG750																																																				
Item		Ambient Temperature Drift																																																				
Object		+360V 750W																																																				
1.Graph		2.Values																																																				
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Model		DPG750	Testing Circuitry Figure A
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 : -40 - 85°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

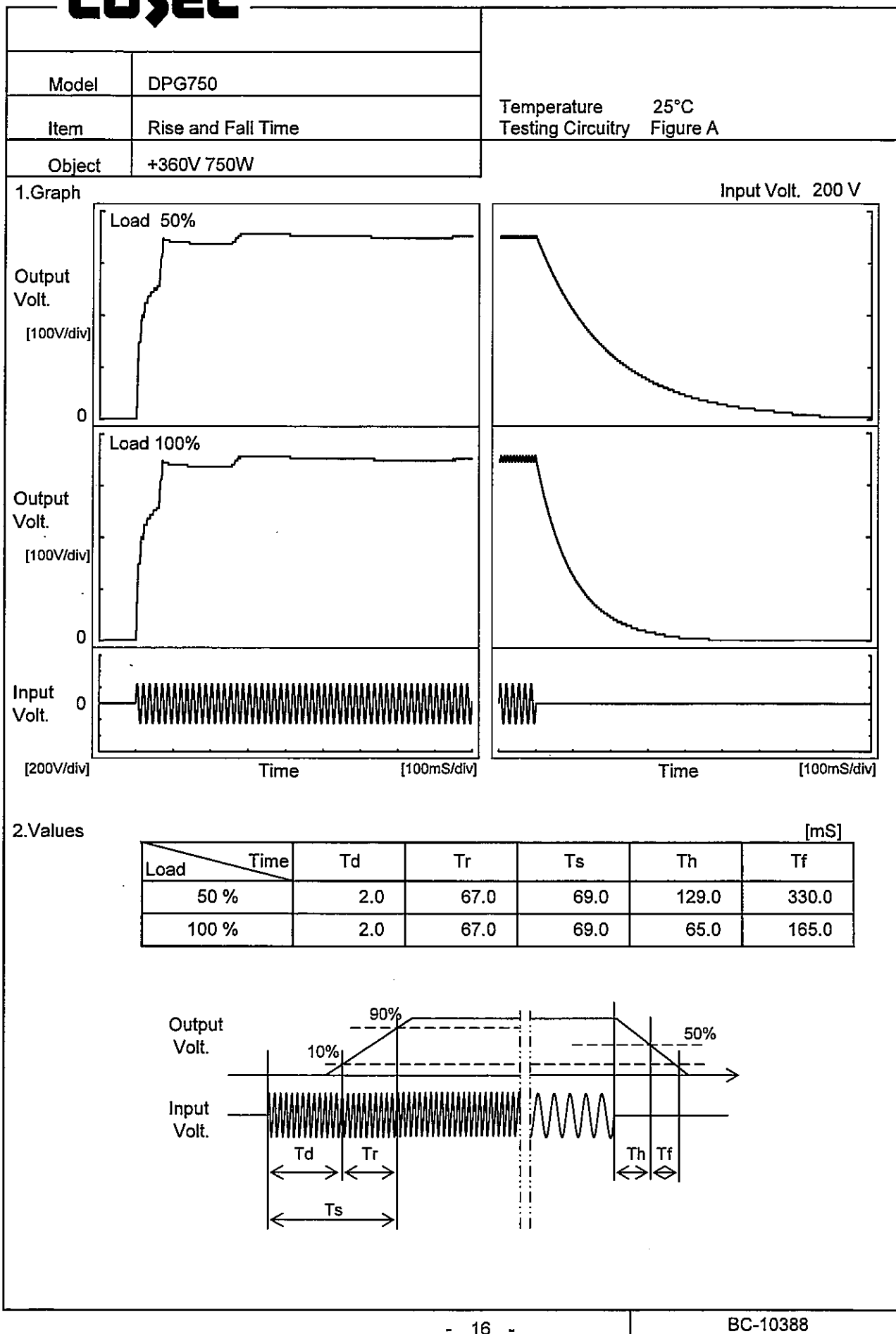
Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Power[W]	Voltage[V]	Value [V]	Ration [%]
Maximum Voltage	25	240	0	360.41	±0.59	±0.2
Minimum Voltage	-40	170	750	359.24		

* When the input voltage is more than 240V, the output voltage becomes the value proportional to the input voltage.

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Model	DPG750	Temperature 25°C Testing Circuitry Figure A	
Item	Time Lapse Drift		
Object	+360V 750W		
1.Graph		2.Values	
<div><div><div>Output Voltage [V]</div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><di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COSEL



COSEL

Model		DPG750
Item		Minimum Input Voltage for Regulated Output Voltage
Object		+360V 750W

1.Graph

□

Load 50%

—

△

—

Load 100%

Ambient Temperature [°C]	Load 50% [V]	Load 100% [V]
-50	73	90
-40	73	90
-20	73	90
0	73	90
25	73	90
40	73	90
55	73	92
70	73	94
85	73	97
100	73	99
---	-	-

Input Voltage [V]

Ambient Temperature [°C]

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

2.Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-50	73	90
-40	73	90
-20	73	90
0	73	90
25	73	90
40	73	90
55	73	92
70	73	94
85	73	97
100	73	99
---	-	-

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BC-10388

COSEL

Model

DPG750

Item

Overvoltage Protection

Object

+360V750W

1.Graph

—△—

Input Volt. 170V

---□---

Input Volt. 200V

---○---

Input Volt. 264V

Operating Point [V]

Ambient Temperature [°C]

Load 0%

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. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-50	412.00	412.00	412.00
-40	416.00	416.00	416.00
-20	416.00	416.00	416.00
0	420.00	420.00	420.00
25	424.00	424.00	424.00
40	424.00	424.00	424.00
55	424.00	424.00	424.00
70	424.00	424.00	424.00
85	424.00	424.00	424.00
100	424.00	424.00	424.00
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COSEL

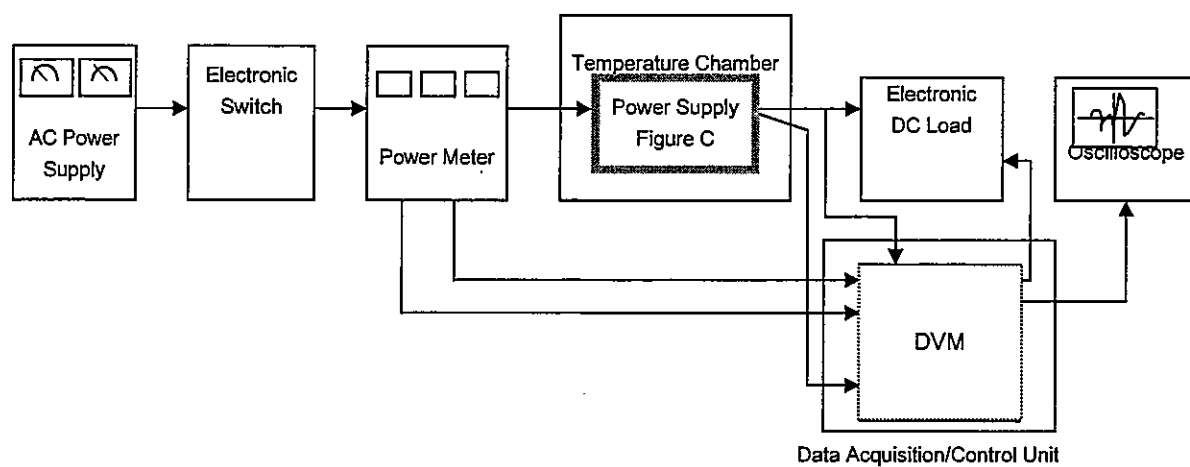


Figure A

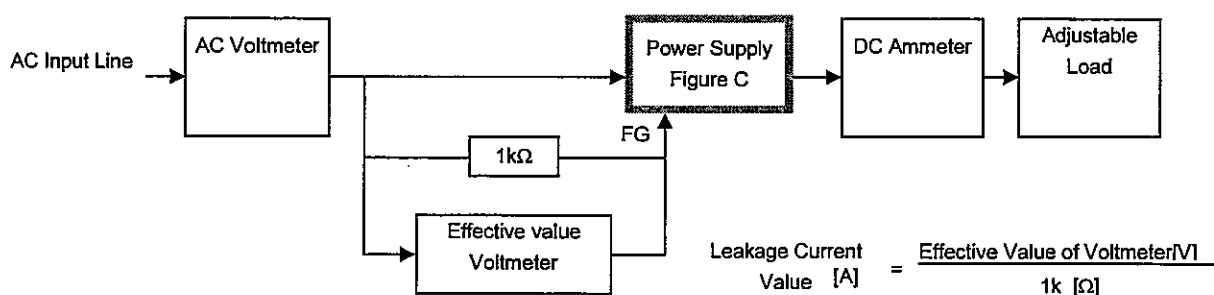


Figure B (DEN-AN)

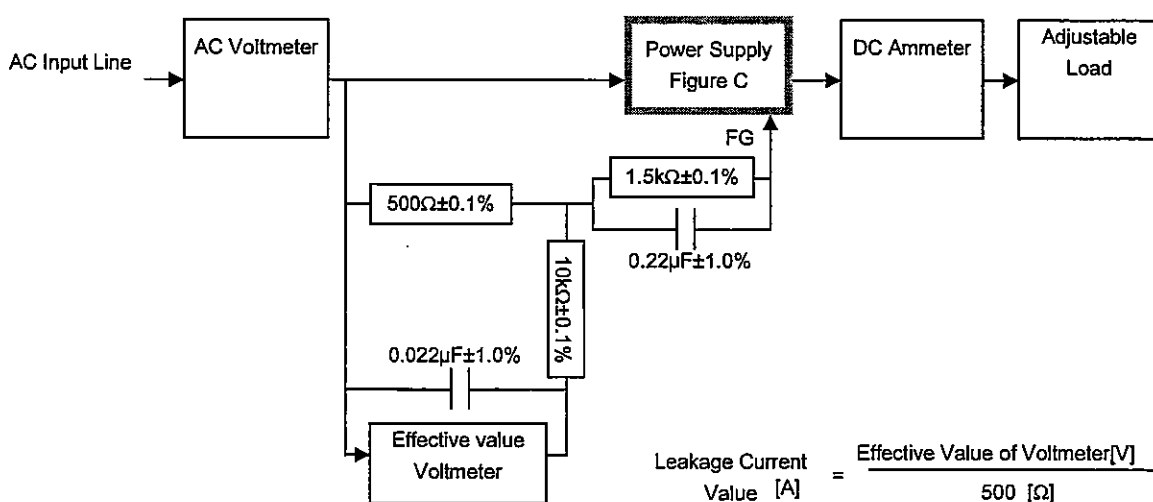


Figure B (IEC60950-1)

COSEL

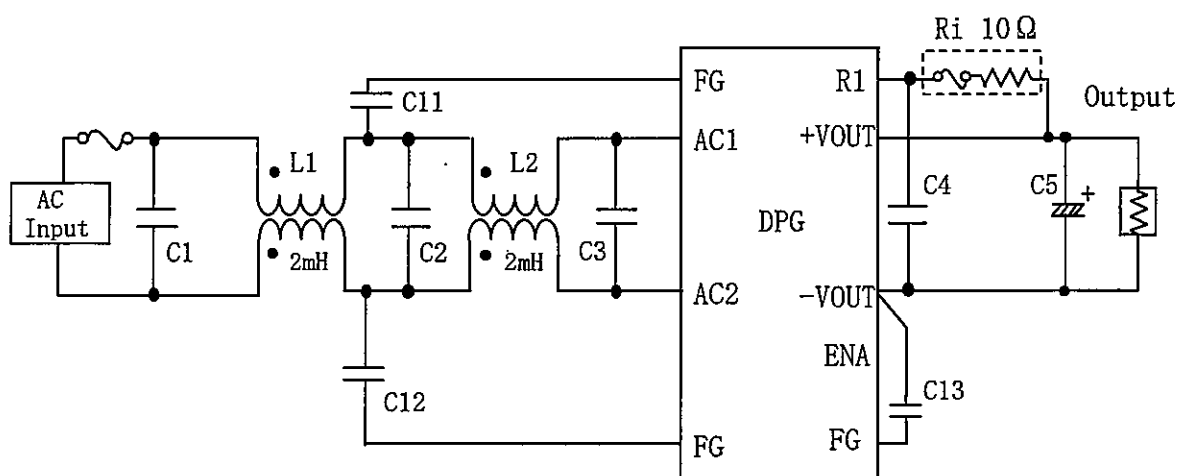


Figure C

- C1, C2, C4 : 0.68uF 250V Film Capacitor ×2
- C3 : 1.0uF 250V Film Capacitor ×2
- C5 : 560uF 450V Electrolytic Capacitor
- C11, C12, C13 : 2200pF Ceramic Capacitor
- L1, L2 : SC-15-200 (NEC TOKIN)