



TEST DATA OF R10A-15 (100V INPUT)

Regulated DC Power Supply

Date : Apr. 28. 1999

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コーセル株式会社
COSEL CO., LTD.

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Model R10A-15		Temperature 25°C Testing Circuitry Figure A																														
Item	Line Regulation 静的入力変動																															
Object	+15V0.7A																															
<p>1. Graph</p> <p>-----□----- Load 50% -----△----- Load 100%</p> <p>Output Voltage [V]</p> <p>Input Voltage [V]</p> <p>Note: Slanted line shows the range of the rated input voltage.</p> <p>(注)斜線は定格入力電圧範囲を示す。</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th>Input Voltage [V]</th><th>Load 50% Output Volt. [V]</th><th>Load 100% Output Volt. [V]</th></tr> </thead> <tbody> <tr><td>75</td><td>15.243</td><td>15.240</td></tr> <tr><td>80</td><td>15.243</td><td>15.241</td></tr> <tr><td>85</td><td>15.243</td><td>15.241</td></tr> <tr><td>90</td><td>15.243</td><td>15.241</td></tr> <tr><td>100</td><td>15.243</td><td>15.241</td></tr> <tr><td>110</td><td>15.242</td><td>15.241</td></tr> <tr><td>120</td><td>15.242</td><td>15.241</td></tr> <tr><td>132</td><td>15.243</td><td>15.241</td></tr> <tr><td>140</td><td>15.242</td><td>15.241</td></tr> </tbody> </table>	Input Voltage [V]	Load 50% Output Volt. [V]	Load 100% Output Volt. [V]	75	15.243	15.240	80	15.243	15.241	85	15.243	15.241	90	15.243	15.241	100	15.243	15.241	110	15.242	15.241	120	15.242	15.241	132	15.243	15.241	140	15.242	15.241
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Model		R10A-15		Temperature		25℃	
Item		Input Current (by Load Current) 入力電流（負荷特性）		Testing Circuitry		Figure A	
Output		_____					

1. Graph

—△— Input Volt. 85V

- - - □ - - - Input Volt. 100V

- - - ○ - - - Input Volt. 132V

[A]

0.5

0.4

0.3

0.2

0.1

0

0

0.2

0.4

0.6

0.8

1

Input Current

Load Current

[A]

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

(注)斜線は定格負荷電流範囲を示す。

2. Values

Load Current [A]	Input Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	0.046	0.049	0.054
0.10	0.088	0.085	0.083
0.20	0.126	0.118	0.108
0.30	0.160	0.148	0.133
0.40	0.193	0.178	0.157
0.50	0.226	0.207	0.180
0.60	0.258	0.236	0.204
0.70	0.289	0.263	0.226
0.77	0.311	0.283	0.242
—	—	—	—
—	—	—	—
—	—	—	—

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Model		R10A-15		Temperature		25℃																																																								
Item		Input Power (by Load Current) 入力電力 (負荷特性)		Testing Circuitry		Figure A																																																								
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<div><div><div>—△—</div><div>---□---</div><div>---○---</div></div><div>Input Volt. 85V</div><div>Input Volt. 100V</div><div>Input Volt. 132V</div></div> <div><div><div><div>[W]</div><div>20</div><div>15</div><div>10</div><div>5</div><div>0</div></div><div><div>0</div><div>0.2</div><div>0.4</div><div>0.6</div><div>0.8</div><div>1</div></div><div><div>Input Power</div><div>Load Current</div><div>[A]</div></div></div></div> <div><div>Note: Slanted line shows the range of the rated load current</div><div>(注) 斜線は定格負荷電流範囲を示す。</div></div>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Power [W]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>0.00</td><td>1.54</td><td>1.85</td><td>2.59</td></tr><tr><td>0.10</td><td>3.32</td><td>3.59</td><td>4.33</td></tr><tr><td>0.20</td><td>5.08</td><td>5.34</td><td>5.99</td></tr><tr><td>0.30</td><td>6.81</td><td>7.06</td><td>7.64</td></tr><tr><td>0.40</td><td>8.55</td><td>8.78</td><td>9.35</td></tr><tr><td>0.50</td><td>10.35</td><td>10.57</td><td>11.11</td></tr><tr><td>0.60</td><td>12.17</td><td>12.36</td><td>12.83</td></tr><tr><td>0.70</td><td>13.90</td><td>14.07</td><td>14.55</td></tr><tr><td>0.77</td><td>15.17</td><td>15.33</td><td>15.78</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 Current [A]	Input Power [W]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.00	1.54	1.85	2.59	0.10	3.32	3.59	4.33	0.20	5.08	5.34	5.99	0.30	6.81	7.06	7.64	0.40	8.55	8.78	9.35	0.50	10.35	10.57	11.11	0.60	12.17	12.36	12.83	0.70	13.90	14.07	14.55	0.77	15.17	15.33	15.78	—	—	—	—	—	—	—	—	—	—	—	—
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Model		R10A-15	Temperature25℃ Testing CircuitryFigure A
Item		Efficiency (by Input Voltage) 効率 (入力電圧特性)	
Object			2. Values
1. Graph			

Efficiency [%]

86

82

78

74

70

66

62

0

0

80

90

100

110

120

130

140

150

Input Voltage [V]

-----□-----Load 50%

-----△-----Load 100%

Input Voltage [V]	Load 50% Efficiency [%]	Load 100% Efficiency [%]
75	71.4	77.7
80	70.9	77.5
85	70.0	77.2
90	69.2	77.1
100	68.1	76.3
110	66.5	75.7
120	65.2	74.9
132	63.5	73.9
140	62.2	73.3

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

(注)斜線は定格入力電圧範囲を示す。

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Model		R10A-15		Temperature		25℃																																																								
Item		Efficiency (by Load Current) 効率 (負荷電流特性)		Testing Circuitry		Figure A																																																								
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Item		Power Factor (by Load Current) 力率 (負荷電流特性)		Testing Circuitry		Figure A																																																								
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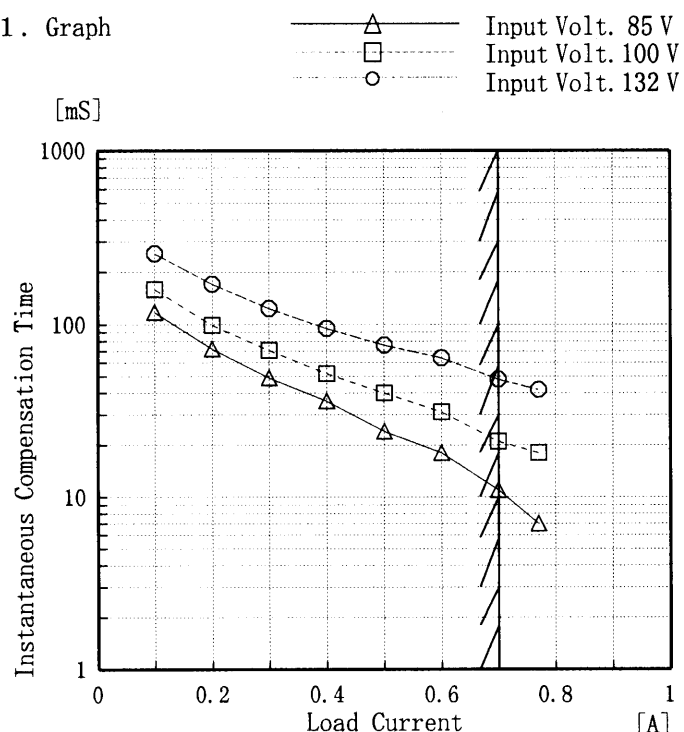
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<p>1. Graph</p> <p>—△— Load 50%</p> <p>- - -□- - Load 100%</p> <p>[mS]</p> <p>Hold-Up Time</p> <p>Input Voltage [V]</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th>Input Voltage [V]</th><th>Load 50% Hold-Up Time [mS]</th><th>Load 100% Hold-Up Time [mS]</th></tr> </thead> <tbody> <tr><td>75</td><td>30</td><td>7</td></tr> <tr><td>80</td><td>35</td><td>9</td></tr> <tr><td>85</td><td>40</td><td>11</td></tr> <tr><td>90</td><td>46</td><td>14</td></tr> <tr><td>100</td><td>58</td><td>21</td></tr> <tr><td>110</td><td>71</td><td>29</td></tr> <tr><td>120</td><td>85</td><td>38</td></tr> <tr><td>132</td><td>104</td><td>48</td></tr> <tr><td>140</td><td>117</td><td>56</td></tr> </tbody> </table>	Input Voltage [V]	Load 50% Hold-Up Time [mS]	Load 100% Hold-Up Time [mS]	75	30	7	80	35	9	85	40	11	90	46	14	100	58	21	110	71	29	120	85	38	132	104	48	140	117	56
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<p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</p> <p>Note: Slanted line shows the range of the rated input voltage.</p> <p>出力保持時間とは、入力電圧断から出力電圧が、定電圧精度の規格範囲を保持しているところまでの時間。</p> <p>(注) 斜線は定格入力電圧範囲を示す。</p>																																

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Model	R10A-15
Item	Instantaneous Interruption Compensation 瞬時停電保障
Object	+15V0.7A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.

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

瞬時停電保障時間とは、出力電圧が定電圧精度の規格範囲を保持している瞬時停電時間をいう。

(注) 斜線は定格負荷電流範囲を示す。

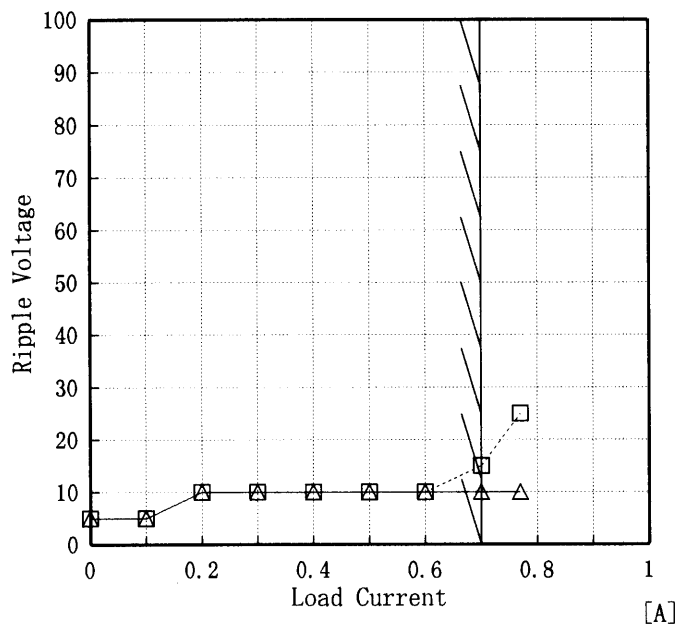
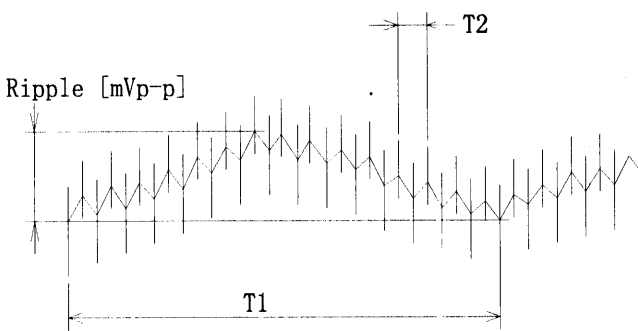
2. Values

Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Time [mS]		
0.00	—	—	—
0.10	118	160	257
0.20	72	99	171
0.30	49	71	124
0.40	36	52	95
0.50	24	40	76
0.60	18	31	64
0.70	11	21	48
0.77	7	18	42
—	—	—	—
—	—	—	—

COSEL

Model	R10A-15	Temperature	25°C																																															
Item	Load Regulation 静的負荷変動	Testing Circuitry	Figure A																																															
Object	+15V0.7A	2. Values																																																
1. Graph	<div> <div>—△—</div>Input Volt. 85V <div>---□---</div>Input Volt. 100V <div>---○---</div>Input Volt. 132V </div> <p>Note: Slanted line shows the range of the rated load current.</p> <p>(注)斜線は定格負荷電流範囲を示す。</p>																																																	
		<table> <tr> <th rowspan="2">Load Current [A]</th><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr> <tr> <th>Output Volt. [V]</th><th>Output Volt. [V]</th><th>Output Volt. [V]</th></tr> <tr><td>0.00</td><td>15.246</td><td>15.247</td><td>15.247</td></tr> <tr><td>0.10</td><td>15.245</td><td>15.244</td><td>15.244</td></tr> <tr><td>0.20</td><td>15.244</td><td>15.244</td><td>15.243</td></tr> <tr><td>0.30</td><td>15.243</td><td>15.243</td><td>15.243</td></tr> <tr><td>0.40</td><td>15.243</td><td>15.243</td><td>15.242</td></tr> <tr><td>0.50</td><td>15.243</td><td>15.242</td><td>15.242</td></tr> <tr><td>0.60</td><td>15.242</td><td>15.242</td><td>15.242</td></tr> <tr><td>0.70</td><td>15.242</td><td>15.241</td><td>15.241</td></tr> <tr><td>0.77</td><td>15.241</td><td>15.241</td><td>15.241</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> </table>		Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]	0.00	15.246	15.247	15.247	0.10	15.245	15.244	15.244	0.20	15.244	15.244	15.243	0.30	15.243	15.243	15.243	0.40	15.243	15.243	15.242	0.50	15.243	15.242	15.242	0.60	15.242	15.242	15.242	0.70	15.242	15.241	15.241	0.77	15.241	15.241	15.241	—	—	—	—
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0.77	15.241	15.241	15.241																																															
—	—	—	—																																															

COSEL

Model		R10A-15		Temperature		25℃	
Item		Ripple Voltage(by Load Current) リップル電圧(負荷電流特性)		Testing Circuitry		Figure A	
Object		+15V0.7A		2.Values			
1. Graph		-----□----- Input Volt. 85V ———△——— Input Volt. 132V					
[mV]							
Ripple Voltage		is shown as p-p in the figure below.					
Note:		Slanted line shows the range of the rated load current.					
リップル電圧は、		下図 p - p 値で示される。					
(注) 斜線は		定格負荷電流範囲を示す。					
T1: Due to AC Input Line 入力商用周期		T2: Due to Switching スイッチング周期					
							
Fig. Complex Ripple Wave Form		図 リップル波形詳細図					

COSEL

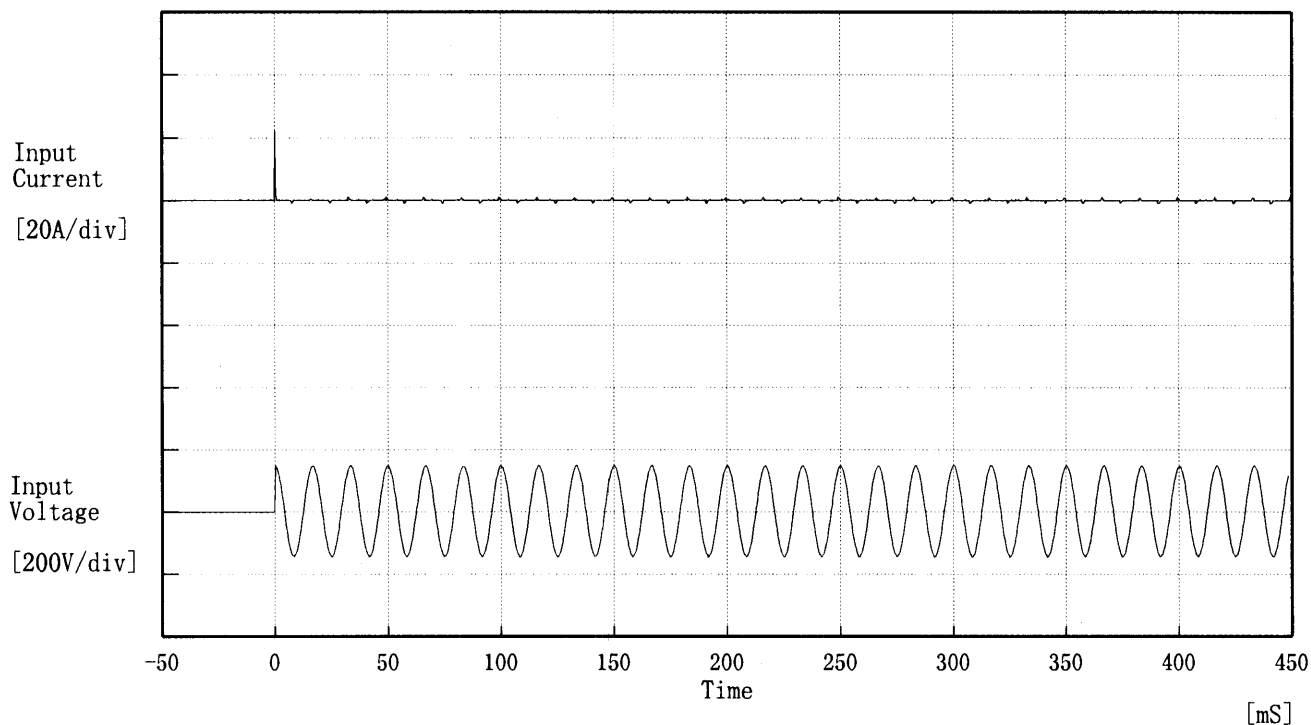
Model	R10A-15	Temperature	25℃																																						
Item	Ripple-Noise リップルノイズ	Testing Circuitry	Figure A																																						
Object	+15V0.7A																																								
1. Graph		2. Values																																							
<div><div>-----□----- Input Volt. 85V</div><div>-----△----- Input Volt. 132V</div></div> <div><div>[mV]</div><div><div>Ripple-Noise</div><div>Load Current</div><div>[A]</div></div></div> <table><tr><th rowspan="2">Load current [A]</th><th>Input Volt. 85 [V]</th><th>Input Volt. 132 [V]</th></tr><tr><th>Ripple-Noise [mV]</th><th>Ripple-Noise [mV]</th></tr><tr><td>0.0</td><td>10</td><td>10</td></tr><tr><td>0.1</td><td>10</td><td>10</td></tr><tr><td>0.2</td><td>15</td><td>15</td></tr><tr><td>0.3</td><td>15</td><td>15</td></tr><tr><td>0.4</td><td>15</td><td>15</td></tr><tr><td>0.5</td><td>20</td><td>15</td></tr><tr><td>0.6</td><td>20</td><td>15</td></tr><tr><td>0.7</td><td>25</td><td>20</td></tr><tr><td>0.8</td><td>35</td><td>20</td></tr><tr><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td></tr></table>		Load current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]	Ripple-Noise [mV]	Ripple-Noise [mV]	0.0	10	10	0.1	10	10	0.2	15	15	0.3	15	15	0.4	15	15	0.5	20	15	0.6	20	15	0.7	25	20	0.8	35	20	—	—	—	—	—	—	<p>Ripple-Noise is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p> <p>リップルノイズは、下図 p-p 値で示される。 (注)斜線は定格負荷電流範囲を示す。</p> <div><div>T1: Due to AC Input Line 入力商用周期</div><div>T2: Due to Switching スイッチング周期</div></div> <div><div>T2</div><div>Ripple-Noise [mVp-p]</div><div>T1</div><div></div></div> <div><div>Fig. Complex Ripple Wave Form</div><div>図 リップル波形詳細図</div></div>	
Load current [A]	Input Volt. 85 [V]		Input Volt. 132 [V]																																						
	Ripple-Noise [mV]	Ripple-Noise [mV]																																							
0.0	10	10																																							
0.1	10	10																																							
0.2	15	15																																							
0.3	15	15																																							
0.4	15	15																																							
0.5	20	15																																							
0.6	20	15																																							
0.7	25	20																																							
0.8	35	20																																							
—	—	—																																							
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COSEL

Model R10A-15																																																										
Item	Overcurrent Protection 過電流保護	Temperature	25°C																																																							
Object	+15V0.7A	Testing Circuitry	Figure A																																																							
1. Graph <div> <div> <div></div> <div></div> <div></div> </div> <div> <div>Input Volt. 85 V</div> <div>Input Volt. 100 V</div> <div>Input Volt. 132 V</div> </div> </div> <div> <div>[V]</div> <div> <div>20.0</div> <div>15.0</div> <div>10.0</div> <div>5.0</div> <div>0.0</div> </div> <div> <div>Output Voltage</div> <div></div> </div> <div> <div>0</div> <div>0.2</div> <div>0.4</div> <div>0.6</div> <div>0.8</div> <div>1</div> </div> <div> <div></div> <div>Load Current</div> <div>[A]</div> </div> </div> <p>Note: Slanted line shows the range of the rated load current.</p> <p>(注) 斜線は定格負荷電流範囲を示す。</p>		2. Values <table> <tr> <th rowspan="2">Output Voltage [V]</th><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr> <tr> <th>Load Current [A]</th><th>Load Current [A]</th><th>Load Current [A]</th></tr> <tr><td>15.00</td><td>0.88</td><td>0.92</td><td>0.87</td></tr> <tr><td>14.25</td><td>0.88</td><td>0.91</td><td>0.86</td></tr> <tr><td>13.50</td><td>0.88</td><td>0.91</td><td>0.85</td></tr> <tr><td>12.00</td><td>0.87</td><td>0.89</td><td>0.83</td></tr> <tr><td>10.50</td><td>0.85</td><td>0.86</td><td>0.81</td></tr> <tr><td>9.00</td><td>0.83</td><td>0.83</td><td>0.78</td></tr> <tr><td>7.50</td><td>0.79</td><td>0.79</td><td>0.75</td></tr> <tr><td>6.00</td><td>0.75</td><td>0.75</td><td>0.71</td></tr> <tr><td>4.50</td><td>0.69</td><td>0.69</td><td>0.67</td></tr> <tr><td>3.00</td><td>0.63</td><td>0.64</td><td>0.62</td></tr> <tr><td>1.50</td><td>0.57</td><td>0.58</td><td>0.57</td></tr> <tr><td>0.00</td><td>0.47</td><td>0.48</td><td>0.49</td></tr> </table>		Output Voltage [V]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	Load Current [A]	Load Current [A]	Load Current [A]	15.00	0.88	0.92	0.87	14.25	0.88	0.91	0.86	13.50	0.88	0.91	0.85	12.00	0.87	0.89	0.83	10.50	0.85	0.86	0.81	9.00	0.83	0.83	0.78	7.50	0.79	0.79	0.75	6.00	0.75	0.75	0.71	4.50	0.69	0.69	0.67	3.00	0.63	0.64	0.62	1.50	0.57	0.58	0.57	0.00	0.47	0.48	0.49
Output Voltage [V]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																							
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COSEL

Model	R10A-15	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current 突入電流	
Object	_____	



Input Voltage 100 V

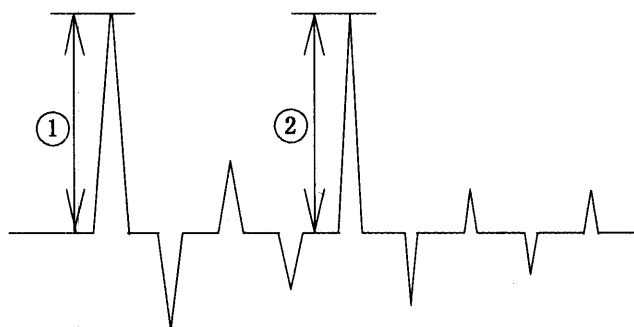
Frequency 60 Hz

Load 100 %

Inrush Current

① 22.00 [A]

② 1.20 [A]



COSEL

Model	R10A-15	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	+15V0.7A	

Input Volt. 100 V

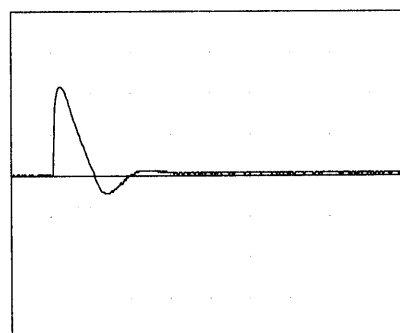
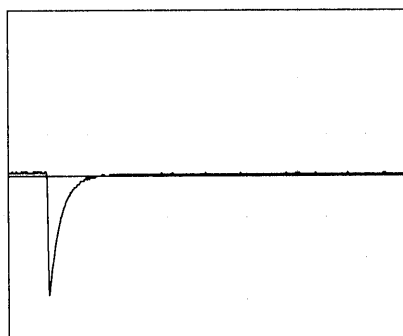
Cycle 1000 mS

Load Current



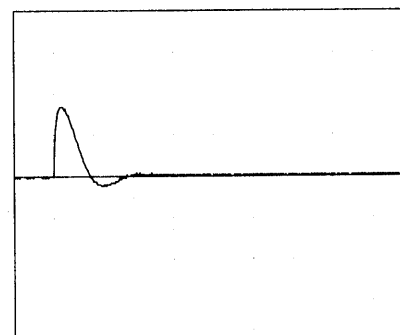
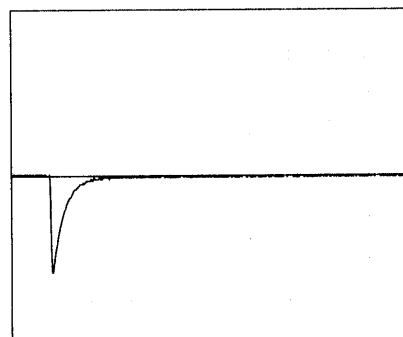
Min. Load \longleftrightarrow

Load 100 %



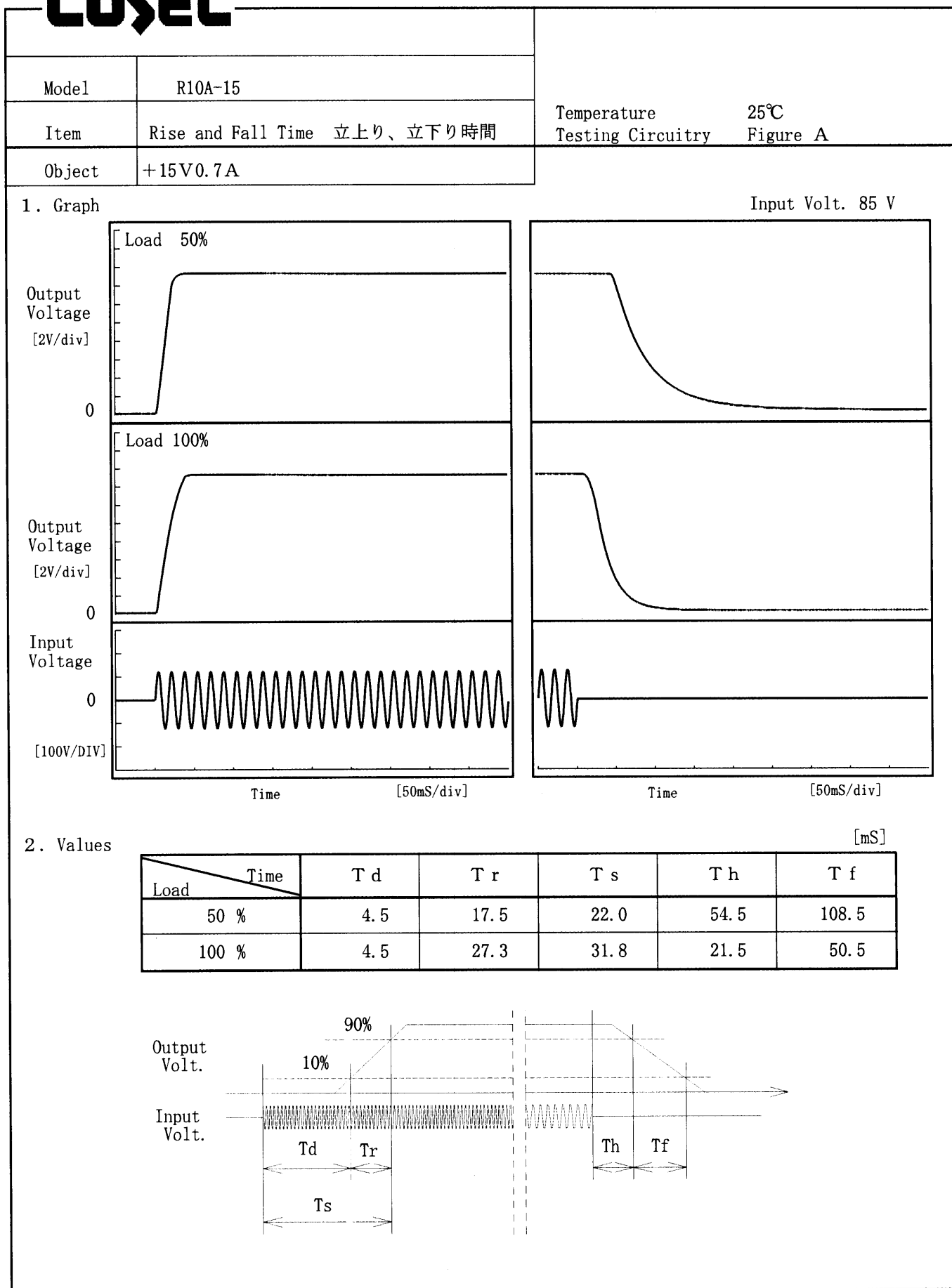
Min. Load \longleftrightarrow

Load 50 %



100 mV/div

20 ms/div

COSEL

COSEL

Model		R10A-15	
Item		Ambient Temperature Drift 周囲温度変動	
Object		+15V0.7A	
1. Graph		2. Values	

COSEL

Model		R10A-15	
Item		Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧	
Object		+15V0.7A	

1. Graph

[V]

100

80

60

40

20

0

Input Voltage

-30

-10

10

30

50

70

Ambient Temperature

[°C]

-----□-----

Load 50%

-----△-----

Load 100%

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

(注)斜線は定格周囲温度範囲を示す。

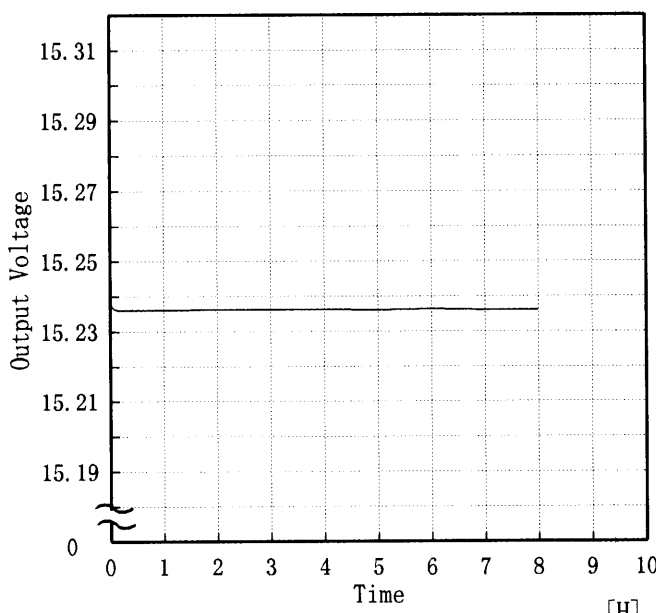
2. Values

Ambient Temp.	Load 50%	Load 100%
	Input Volt.	Input Volt.
[°C]	[V]	[V]
-20	35	62
-10	35	63
0	34	63
10	34	63
20	34	63
25	34	63
30	34	64
40	34	64
50	34	64
60	35	64
—	—	—

COSEL

Model R10A-15		Testing Circuitry Figure A																																						
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)																																							
Object	+15V0.7A																																							
1. Graph <div style="display: flex; justify-content: flex-end; align-items: center;"> <div style="margin-right: 20px;"> □ Load 50% </div> <div> △ Load 100% </div> </div> <div style="margin-top: 10px;"> <p>[mV]</p> <p style="text-align: center;">Ambient Temperature [°C]</p> <p style="text-align: center;">Input Volt. 85 V</p> <p>Note: Slanted line shows the range of the rated ambient temperature.</p> <p>(注)斜線は定格周囲温度範囲を示す。</p> </div>		2. Values <table border="1" style="margin-top: 10px; width: 100%;"> <thead> <tr> <th rowspan="2">Ambient Temp. [°C]</th><th>Load 50%</th><th>Load 100%</th></tr> <tr> <th>Ripple Output Volt. [mV]</th><th>Ripple Output Volt. [mV]</th></tr> </thead> <tbody> <tr><td>-20</td><td>10</td><td>30</td></tr> <tr><td>-10</td><td>10</td><td>25</td></tr> <tr><td>0</td><td>10</td><td>25</td></tr> <tr><td>10</td><td>10</td><td>20</td></tr> <tr><td>20</td><td>10</td><td>20</td></tr> <tr><td>25</td><td>10</td><td>15</td></tr> <tr><td>30</td><td>10</td><td>15</td></tr> <tr><td>40</td><td>10</td><td>15</td></tr> <tr><td>50</td><td>10</td><td>15</td></tr> <tr><td>60</td><td>10</td><td>15</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>	Ambient Temp. [°C]	Load 50%	Load 100%	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]	-20	10	30	-10	10	25	0	10	25	10	10	20	20	10	20	25	10	15	30	10	15	40	10	15	50	10	15	60	10	15	—	—	—
Ambient Temp. [°C]	Load 50%	Load 100%																																						
	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]																																						
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0	10	25																																						
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40	10	15																																						
50	10	15																																						
60	10	15																																						
—	—	—																																						

COSEL

COSEL																								
Model	R10A-15	Temperature25℃ Testing CircuitryFigure A																						
Item	Time Lapse Drift 経時ドリフト																							
Object	+15V0.7A																							
1. Graph		2.Values																						
<div>[V]</div> <div></div> <div>Output Voltage</div> <div>Time [H]</div> <div>Input Volt. 100V</div> <div>Load 100%</div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>15.240</td></tr><tr><td>0.5</td><td>15.236</td></tr><tr><td>1.0</td><td>15.236</td></tr><tr><td>2.0</td><td>15.236</td></tr><tr><td>3.0</td><td>15.236</td></tr><tr><td>4.0</td><td>15.236</td></tr><tr><td>5.0</td><td>15.236</td></tr><tr><td>6.0</td><td>15.236</td></tr><tr><td>7.0</td><td>15.236</td></tr><tr><td>8.0</td><td>15.236</td></tr></table>	Time since start [H]	Output Voltage [V]	0.0	15.240	0.5	15.236	1.0	15.236	2.0	15.236	3.0	15.236	4.0	15.236	5.0	15.236	6.0	15.236	7.0	15.236	8.0	15.236
Time since start [H]	Output Voltage [V]																							
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5.0	15.236																							
6.0	15.236																							
7.0	15.236																							
8.0	15.236																							

COSEL

Model	R10A-15	Testing Circuitry Figure A
Item	Output Voltage Accuracy 定電圧精度	
Object	+15V0.7A	

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 : -10~50 °C

Input Voltage : 85~132 V

Load Current : 0.00~0.7 A

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

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

定電圧精度

周囲温度、入力電圧、負荷を下記仕様内で、任意に変動させたときの出力電圧の変動をいう。

周囲温度 : -10~50 °C

入力電圧 : 85~132 V

負荷電流 : 0.00~0.7 A

* 定電圧精度(変動値) = $\pm (\text{出力電圧の最高値} - \text{出力電圧の最低値}) / 2$

* 定電圧精度(変動率) = $\frac{\text{変動値}}{\text{定格出力電圧}} \times 100$

Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration) [%]
Maximum Voltage	-10	132	0.00	15.255	±17	±0.2
Minimum Voltage	50	85	0.70	15.221		

COSEL

Model	R10A-15	Temperature	25°C																																																			
Item	Oscillator Frequency 発振周波数	Testing Circuitry	Figure A																																																			
Object	+15V0.7A	2. Values																																																				
1. Graph	<div> <div> <div>△</div> <div>—</div> <div>Input Volt. 85 V</div> </div> <div> <div>□</div> <div>- - -</div> <div>Input Volt. 100 V</div> </div> <div> <div>○</div> <div>· · ·</div> <div>Input Volt. 132 V</div> </div> </div> <p>Note: Slanted line shows the range of the rated load current.</p> <p>(注) 斜線は定格負荷電流範囲を示す。</p>																																																					
		<table> <tr> <th rowspan="2">Load Current [A]</th><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr> <tr> <th colspan="3">Oscillator Frequency [KHz]</th></tr> <tr><td>0.00</td><td>460</td><td>461</td><td>464</td></tr> <tr><td>0.10</td><td>300</td><td>312</td><td>337</td></tr> <tr><td>0.20</td><td>215</td><td>234</td><td>258</td></tr> <tr><td>0.30</td><td>170</td><td>180</td><td>207</td></tr> <tr><td>0.40</td><td>137</td><td>152</td><td>174</td></tr> <tr><td>0.50</td><td>117</td><td>130</td><td>148</td></tr> <tr><td>0.60</td><td>101</td><td>113</td><td>130</td></tr> <tr><td>0.70</td><td>88</td><td>97</td><td>116</td></tr> <tr><td>0.77</td><td>77</td><td>88</td><td>103</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> </table>		Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	Oscillator Frequency [KHz]			0.00	460	461	464	0.10	300	312	337	0.20	215	234	258	0.30	170	180	207	0.40	137	152	174	0.50	117	130	148	0.60	101	113	130	0.70	88	97	116	0.77	77	88	103	—	—	—	—	—	—	—	—
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COSEL

LOVEL

Model	R10A-15
Item	Condensation 結露特性
Object	+15V0.7A

1. Condensation test

Testing procedure is as follows.

① Keeping and cooling the unit in a tank at -10℃ for an hour with the input off.

② Taking it out of the tank and dewing itself in a room where the temperature is 25℃ and the humidity is 40%RH.

③ Testing electrical characteristics of the unit to confirm there be no fault.

1. 結露特性試験

入力を切った状態で、恒温槽で-10℃に冷却しておき、約1時間後に恒温槽から取り出し、室温25℃、湿度40%RHの状態におき結露させ、その電気的特性の測定を行い、異常のないことを確認する。

2. Values

Item	Data	Testing Conditions
Output Voltage [V]	15.241	Input Volt.: 100V, Load Current:0.7A
Line Regulation [mV]	1	Input Volt.: 85~100V, Load Current:0.7A
Load Regulation [mV]	6	Input Volt.: 100V, Load Current:0.0~0.7A

COSEL

Model	R10A-15	Temperature	25°C
Item	Leakage Current 漏洩電流	Testing Circuitry	Figure B
Object	_____		

1. Results

Standards	Leakage Current [mA]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
(A) DENTORI	0.08	0.09	0.12
(B) IEC60950	0.08	0.09	0.12

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 230 [V]	Input Volt. 264 [V]
(B) IEC60950	—	—	—

2. Condition

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

交流入力 of 両相について測定し、その大きい方を漏洩電流測定値とする。

COSEL

Model	R10A-15	Temperature Testing Circuitry	25°C Figure C
Item	Line Noise Tolerance 入力雑音耐量		
Object	+15V0.7A		

1. Results

Pulse Width [n S]	MODE	No protection failure should occur 保護回路の誤動作がない	DC-like Regulation of Output Voltage 出力電圧の直流的変動
50	COMMON	OK	no fluctuation
	NORMAL	OK	no fluctuation
1000	COMMON	OK	no fluctuation
	NORMAL	OK	no fluctuation

Conditions

Input Voltage :100 V
 Pulse Voltage :1000 V
 Pulse Cycle :10 mS
 Pulse Input Duration:1 min. or more
 Load :100 %

COSEL

Model	R10A-15	Temperature	25°C
Item	Conducted Emission 雑音端子電圧	Testing Circuitry	Figure D
Object			

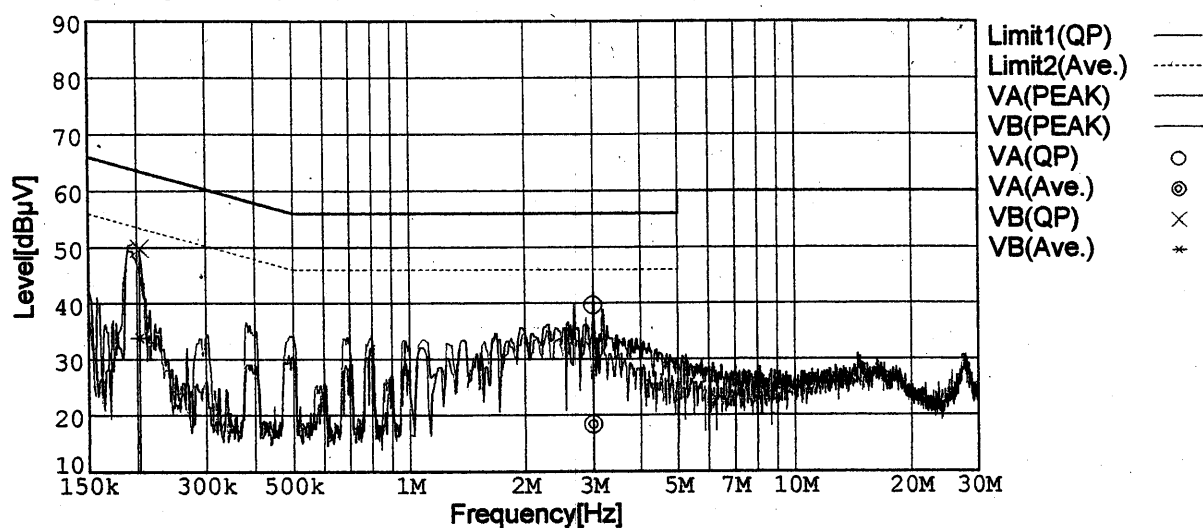
1. Graph

Remarks

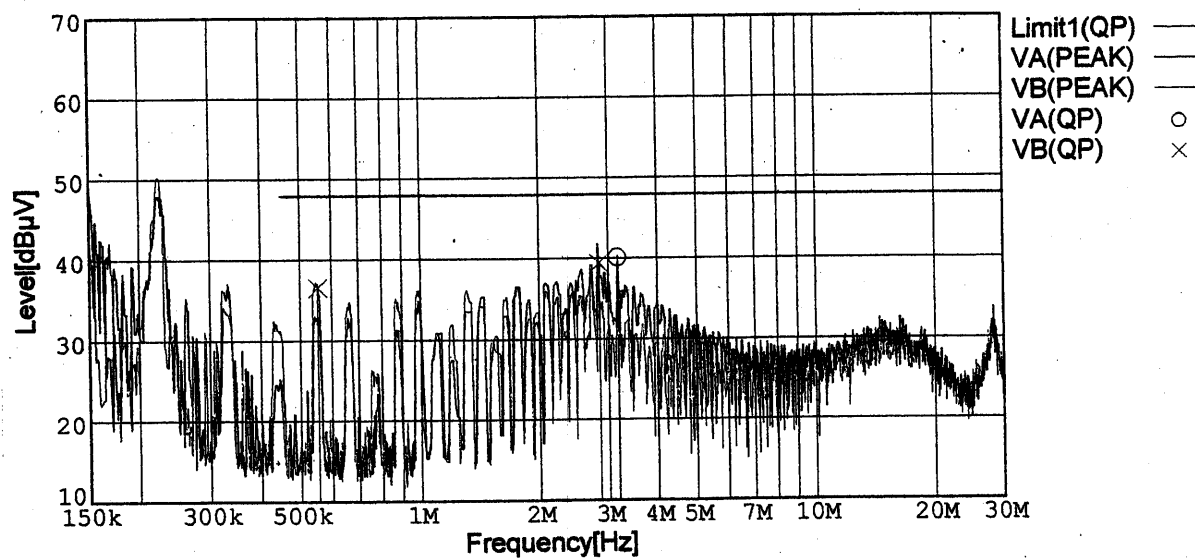
Input Volt. 100V (VCCI Class B)
120V (FCC Class B)
Load 100 %

Limit1: [VCCI] Class B(QP)

Limit2: [VCCI] Class B(Ave.)



Limit1: [FCC Part15] Class B



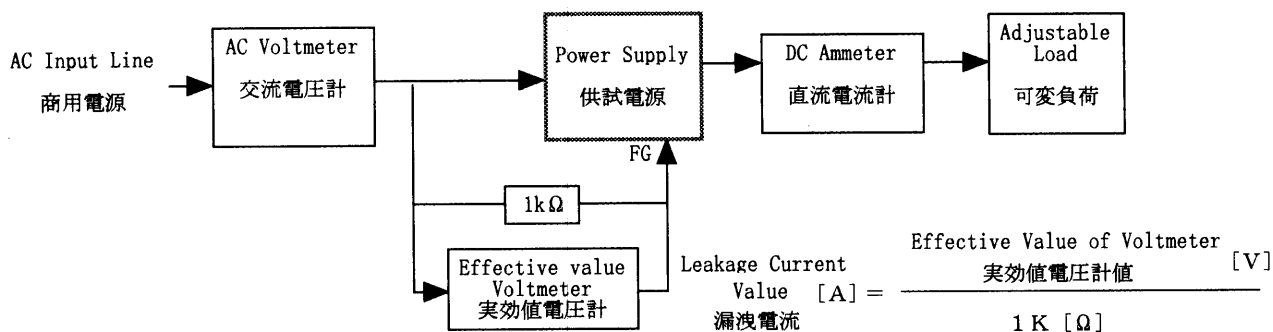
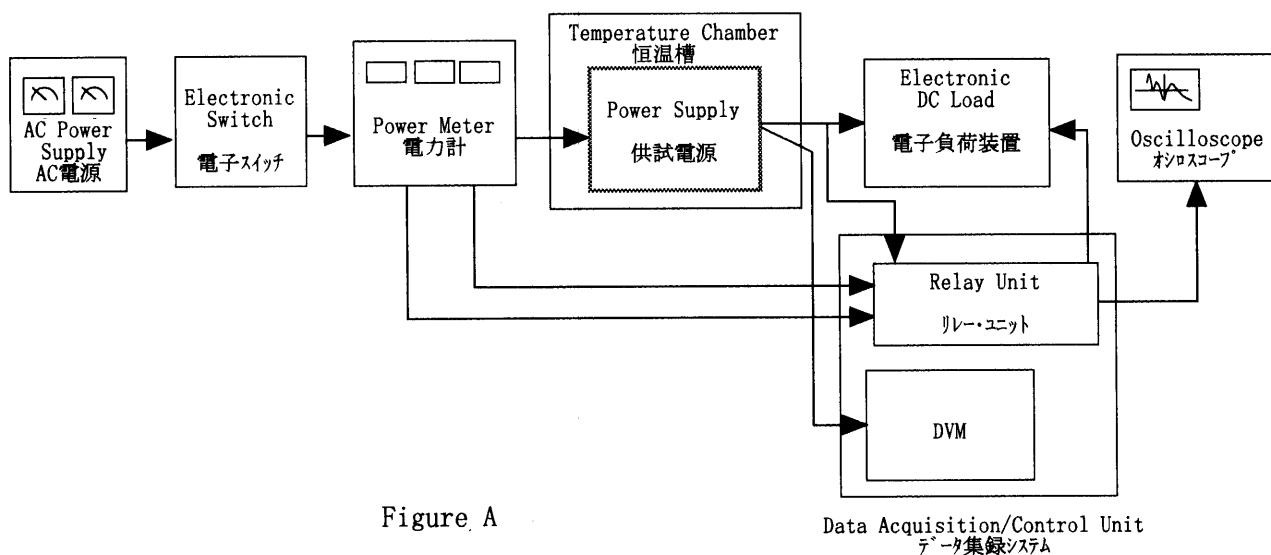


Figure B (DENTORI)

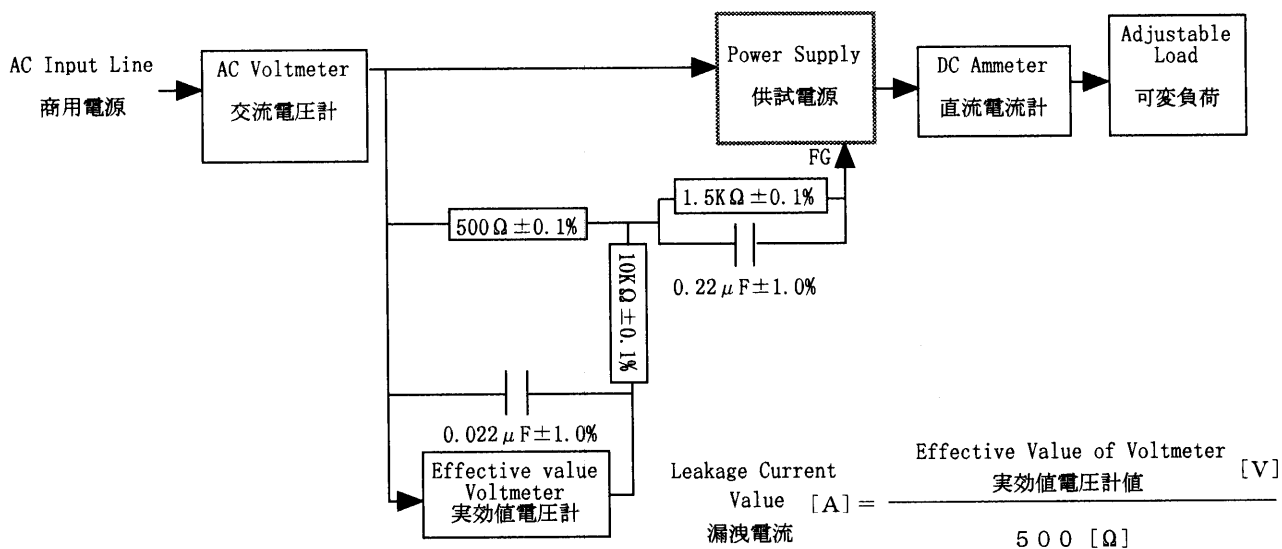


Figure B (IEC60950)

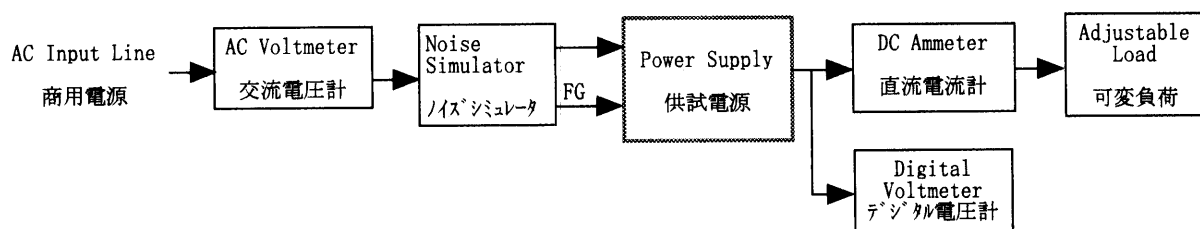


Figure C

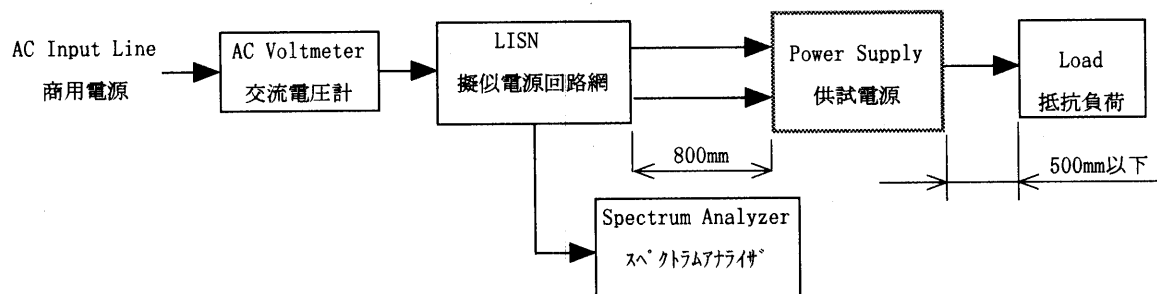


Figure D

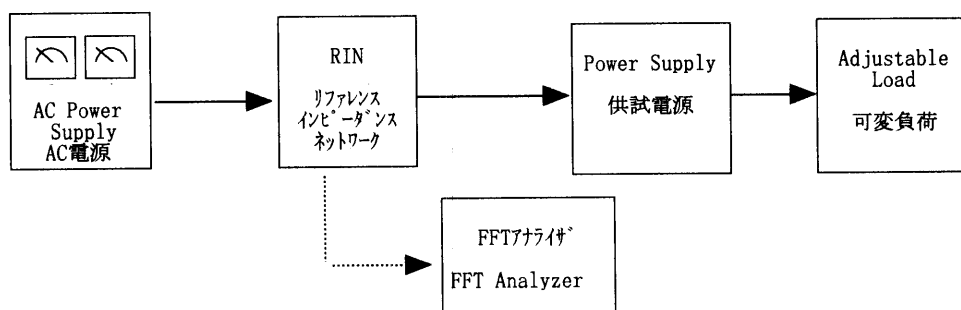


Figure E