



TEST DATA OF LEA75F-15 (200V INPUT)

Regulated DC Power Supply

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コーセル株式会社
COSEL CO., LTD.

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Model	LEA75F-15																																		
Item	Line Regulation 静的入力変動	Temperature	25℃																																
Object	+15V5A	Testing Circuitry	Figure A																																
1. Graph		2. Values																																	
<div><div>-----□----- Load 50%</div><div>-----△----- Load 100%</div></div> <div><div>Output Voltage</div><div>[V]</div><div><div>15.19</div><div>15.17</div><div>15.15</div><div>15.13</div><div>15.11</div><div>15.09</div><div>15.07</div><div>0</div></div><div><div>0</div><div>160</div><div>180</div><div>200</div><div>220</div><div>240</div><div>260</div><div>280</div><div>300</div></div><div><div>Input Voltage</div><div>[V]</div></div></div> <div><div>Note: Slanted line shows the range of the rated input voltage.</div><div>(注)斜線は定格入力電圧範囲を示す。</div></div>		<table><tr><th rowspan="2">Input Voltage [V]</th><th>Load 50%</th><th>Load 100%</th></tr><tr><th>Output Volt. [V]</th><th>Output Volt. [V]</th></tr><tr><td>150</td><td>15.121</td><td>15.117</td></tr><tr><td>160</td><td>15.121</td><td>15.117</td></tr><tr><td>170</td><td>15.121</td><td>15.117</td></tr><tr><td>180</td><td>15.121</td><td>15.117</td></tr><tr><td>200</td><td>15.120</td><td>15.117</td></tr><tr><td>220</td><td>15.120</td><td>15.117</td></tr><tr><td>240</td><td>15.120</td><td>15.116</td></tr><tr><td>264</td><td>15.120</td><td>15.116</td></tr><tr><td>280</td><td>15.120</td><td>15.116</td></tr></table>		Input Voltage [V]	Load 50%	Load 100%	Output Volt. [V]	Output Volt. [V]	150	15.121	15.117	160	15.121	15.117	170	15.121	15.117	180	15.121	15.117	200	15.120	15.117	220	15.120	15.117	240	15.120	15.116	264	15.120	15.116	280	15.120	15.116
Input Voltage [V]	Load 50%	Load 100%																																	
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Model	LEA75F-15	Temperature	25°C
Item	Input Current (by Load Current) 入力電流 (負荷特性)	Testing Circuitry	Figure A
Output	_____		

1. Graph

—△— Input Volt. 170V

---□--- Input Volt. 200V

---○--- Input Volt. 264V

[A]

1

0.8

0.6

0.4

0.2

0

0

2

4

6

Input Current

Load Current [A]

2. Values

Load Current [A]	Input Current [A]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.0	0.055	0.056	0.068
0.8	0.146	0.132	0.117
1.6	0.226	0.200	0.168
2.4	0.305	0.267	0.219
3.2	0.384	0.334	0.269
4.0	0.466	0.403	0.321
4.8	0.546	0.471	0.372
5.0	0.566	0.488	0.385
5.5	0.618	0.532	0.418
—	—	—	—
—	—	—	—
—	—	—	—

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。

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Model	LEA75F-15		
Item	Input Power (by Load Current) 入力電力 (負荷特性)	Temperature Testing Circuitry	25°C Figure A
Output			

1. Graph

—△— Input Volt. 170V

---□--- Input Volt. 200V

---○--- Input Volt. 264V

[W]

200

150

100

50

0

0

2

4

6

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 Power [W]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.0	5.50	5.70	7.80
0.8	20.70	20.70	20.90
1.6	34.20	34.20	34.30
2.4	47.70	47.60	47.60
3.2	61.40	61.20	61.10
4.0	75.50	75.30	74.90
4.8	89.40	89.10	88.70
5.0	93.00	92.60	92.20
5.5	101.90	101.50	101.00
—	—	—	—
—	—	—	—
—	—	—	—

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Model		LEA75F-15	Temperature25℃ Testing CircuitryFigure A																													
Item		Efficiency (by Input Voltage) 効率 (入力電圧特性)																														
Object																																
1. Graph		<div><div><div>□</div>Load 50%</div><div><div>△</div>Load 100%</div></div> <p>Efficiency [%]</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>	2. Values																													
		<table><tr><th>Input Voltage [V]</th><th>Load 50% Efficiency [%]</th><th>Load 100% Efficiency [%]</th></tr><tr><td>150</td><td>76.2</td><td>81.1</td></tr><tr><td>160</td><td>76.4</td><td>81.3</td></tr><tr><td>170</td><td>76.4</td><td>81.5</td></tr><tr><td>180</td><td>76.5</td><td>81.7</td></tr><tr><td>200</td><td>76.6</td><td>81.8</td></tr><tr><td>220</td><td>76.7</td><td>82.0</td></tr><tr><td>240</td><td>76.7</td><td>82.2</td></tr><tr><td>264</td><td>76.7</td><td>82.3</td></tr><tr><td>280</td><td>75.8</td><td>82.3</td></tr></table>		Input Voltage [V]	Load 50% Efficiency [%]	Load 100% Efficiency [%]	150	76.2	81.1	160	76.4	81.3	170	76.4	81.5	180	76.5	81.7	200	76.6	81.8	220	76.7	82.0	240	76.7	82.2	264	76.7	82.3	280	75.8
Input Voltage [V]	Load 50% Efficiency [%]	Load 100% Efficiency [%]																														
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Model		LEA75F-15		Temperature		25℃																																																								
Item		Efficiency (by Load Current) 効率 (負荷電流特性)		Testing Circuitry		Figure A																																																								
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<div><div>—△—</div>Input Volt. 170V</div> <div><div>---□---</div>Input Volt. 200V</div> <div><div>---○---</div>Input Volt. 264V</div> <div><div>Efficiency [%]</div><div>Load Current [A]</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>				<table><tr><th rowspan="2">Load Current [A]</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>0.8</td><td>59.1</td><td>59.0</td><td>58.5</td></tr><tr><td>1.6</td><td>71.1</td><td>71.1</td><td>70.9</td></tr><tr><td>2.4</td><td>76.3</td><td>76.4</td><td>76.5</td></tr><tr><td>3.2</td><td>79.0</td><td>79.2</td><td>79.3</td></tr><tr><td>4.0</td><td>80.4</td><td>80.6</td><td>81.0</td></tr><tr><td>4.8</td><td>81.4</td><td>81.7</td><td>82.1</td></tr><tr><td>5.0</td><td>81.5</td><td>81.8</td><td>82.2</td></tr><tr><td>5.5</td><td>81.7</td><td>82.1</td><td>82.5</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></table>				Load Current [A]	Efficiency [%]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0.8	59.1	59.0	58.5	1.6	71.1	71.1	70.9	2.4	76.3	76.4	76.5	3.2	79.0	79.2	79.3	4.0	80.4	80.6	81.0	4.8	81.4	81.7	82.1	5.0	81.5	81.8	82.2	5.5	81.7	82.1	82.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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<table><tr><th>Input Voltage [V]</th><th>load 50% Power Factor</th><th>load 100% Power Factor</th></tr><tr><td>150</td><td>0.94</td><td>0.97</td></tr><tr><td>160</td><td>0.93</td><td>0.97</td></tr><tr><td>170</td><td>0.92</td><td>0.97</td></tr><tr><td>180</td><td>0.91</td><td>0.96</td></tr><tr><td>200</td><td>0.90</td><td>0.95</td></tr><tr><td>220</td><td>0.88</td><td>0.94</td></tr><tr><td>240</td><td>0.86</td><td>0.92</td></tr><tr><td>264</td><td>0.83</td><td>0.91</td></tr><tr><td>280</td><td>0.56</td><td>0.71</td></tr></table>				Input Voltage [V]	load 50% Power Factor	load 100% Power Factor	150	0.94	0.97	160	0.93	0.97	170	0.92	0.97	180	0.91	0.96	200	0.90	0.95	220	0.88	0.94	240	0.86	0.92	264	0.83	0.91	280	0.56	0.71
Input Voltage [V]	load 50% Power Factor	load 100% Power Factor																															
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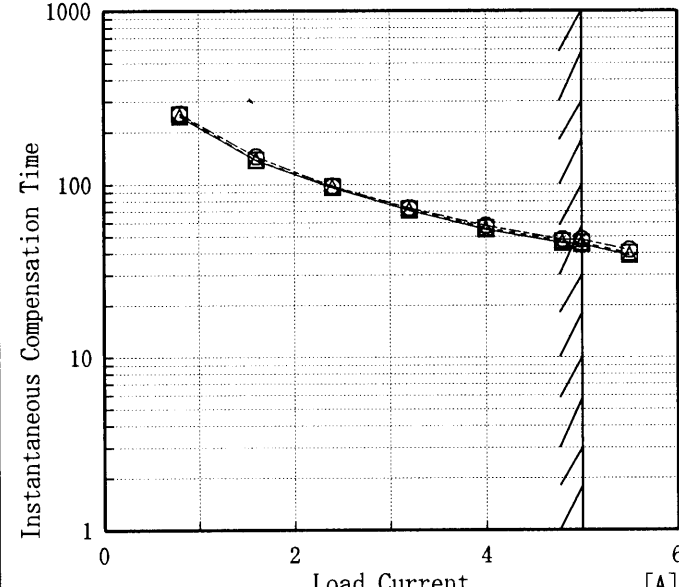
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Model		LEA75F-15	Temperature Testing Circuitry	25℃ Figure A																														
Item		Hold-Up Time 出力保持時間																																
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1. Graph		<div><div><div>—△—</div><div>Load 50%</div></div><div><div>- -□- -</div><div>Load 100%</div></div></div> <div><div>[mS]</div><div>1000</div><div>100</div><div>10</div><div>1</div><div>Hold-Up Time</div><div>0 160 180 200 220 240 260 280 300</div><div>Input Voltage [V]</div></div>	2. Values																															
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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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<div><div><div>△</div><div>—</div><div>Input Volt. 170 V</div></div><div><div>□</div><div>- - -</div><div>Input Volt. 200 V</div></div><div><div>○</div><div>· · ·</div><div>Input Volt. 264 V</div></div></div> <div><div><div>[mS]</div><div>Instantaneous Compensation Time</div></div><div><div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div><div>0</div><div>2</div><div>4</div><div>6</div></div><div>Load Current [A]</div></div></div> <div><div><div>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</div><div>Note:Slanted line shows the range of the rated load current.</div></div><div><div>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。</div><div>(注)斜線は定格負荷電流範囲を示す。</div></div></div> <table><tr><th rowspan="2">Load Current [A]</th><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr><tr><th colspan="3">Time [mS]</th></tr><tr><td>0.0</td><td>—</td><td>—</td><td>—</td></tr><tr><td>0.8</td><td>247</td><td>253</td><td>256</td></tr><tr><td>1.6</td><td>138</td><td>139</td><td>145</td></tr><tr><td>2.4</td><td>96</td><td>97</td><td>98</td></tr><tr><td>3.2</td><td>71</td><td>72</td><td>73</td></tr><tr><td>4.0</td><td>55</td><td>56</td><td>58</td></tr><tr><td>4.8</td><td>46</td><td>47</td><td>48</td></tr><tr><td>5.0</td><td>45</td><td>46</td><td>48</td></tr><tr><td>5.5</td><td>39</td><td>40</td><td>42</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. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	Time [mS]			0.0	—	—	—	0.8	247	253	256	1.6	138	139	145	2.4	96	97	98	3.2	71	72	73	4.0	55	56	58	4.8	46	47	48	5.0	45	46	48	5.5	39	40	42	—	—	—	—	—	—	—	—
Load Current [A]	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]																																																			
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COSEL

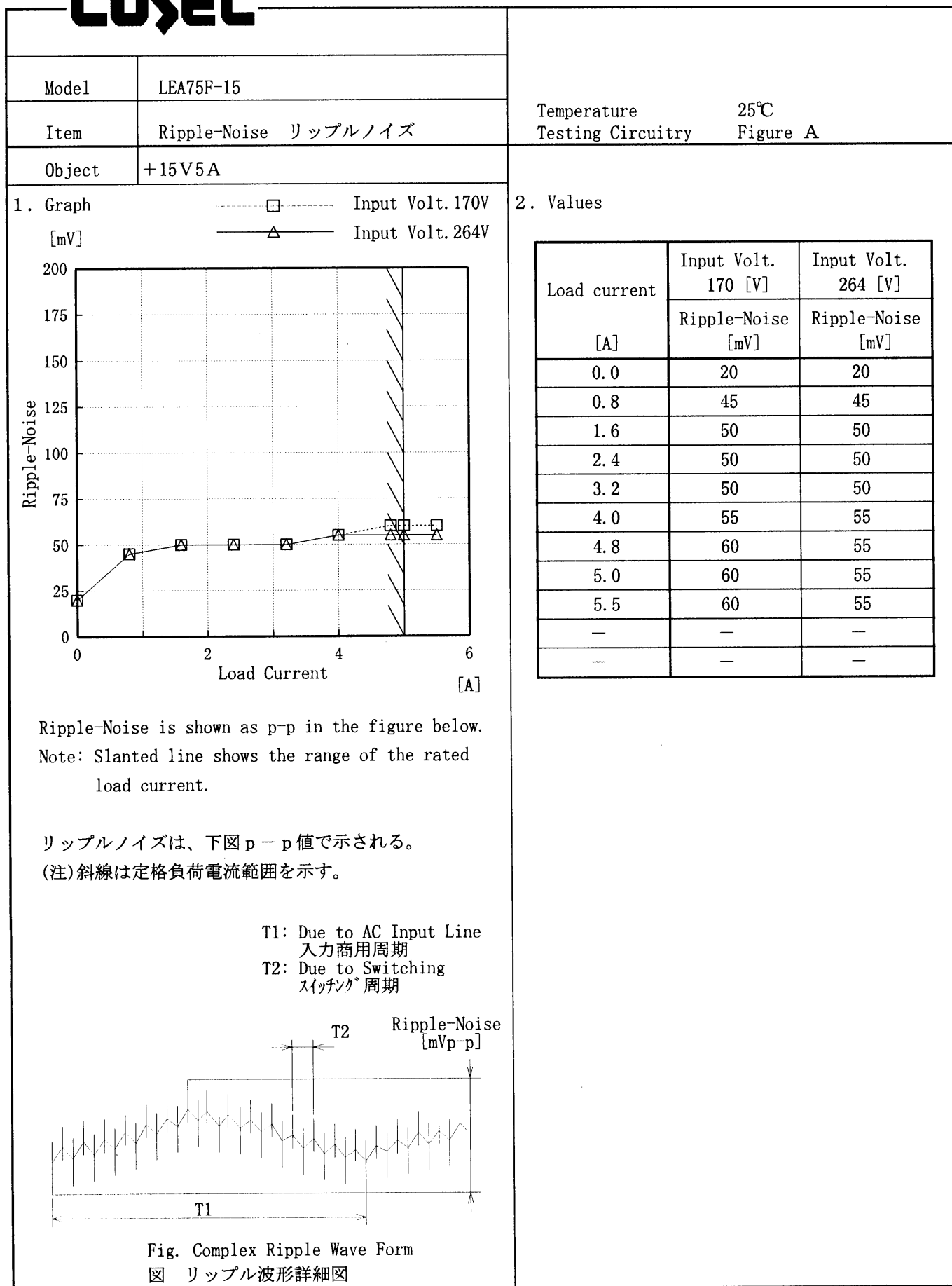
Model		LEA75F-15		Temperature		25℃																																																				
Item		Load Regulation 静的負荷変動		Testing Circuitry		Figure A																																																				
Object		+15V5A																																																								
1. Graph				2. Values																																																						
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Load Current	Input Volt.	Input Volt.	Input Volt.																																																							
	170[V]	200[V]	264[V]																																																							
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1.6	15.123	15.122	15.122																																																							
2.4	15.121	15.121	15.121																																																							
3.2	15.120	15.120	15.120																																																							
4.0	15.119	15.119	15.118																																																							
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—	—	—	—																																																							

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。

BC-3181

COSEL



2. Values

Load current [A]	Input Volt. 170 [V]	Input Volt. 264 [V]
	Ripple-Noise [mV]	Ripple-Noise [mV]
0.0	20	20
0.8	45	45
1.6	50	50
2.4	50	50
3.2	50	50
4.0	55	55
4.8	60	55
5.0	60	55
5.5	60	55
—	—	—
—	—	—

COSEL

Model		LEA75F-15	Temperature 25°C Testing Circuitry Figure A																																																											
Item		Overcurrent Protection 過電流保護																																																												
Object		+15V5A																																																												
1. Graph		<div> <div>Input Volt. 170 V</div> <div>Input Volt. 200 V</div> <div>Input Volt. 264 V</div> </div> <p>Output Voltage [V]</p> <p>Load Current [A]</p>	2. Values																																																											
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Output Voltage [V]	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]																																																											
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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。
9V以下は間欠状態。

COSEL

Model		LEA75F-15	
Item		Overvoltage Protection 過電圧保護	
Object		+15V5A	

1. Graph

—△—

—□—

—○—

Input Volt. 170 V

Input Volt. 200 V

Input Volt. 264 V

[V]

Operating Point

22.33

21.33

20.33

19.33

18.33

17.33

16.33

0

—30—

—10—

10

30

50

70

Ambient Temperature

[°C]

Load 0%

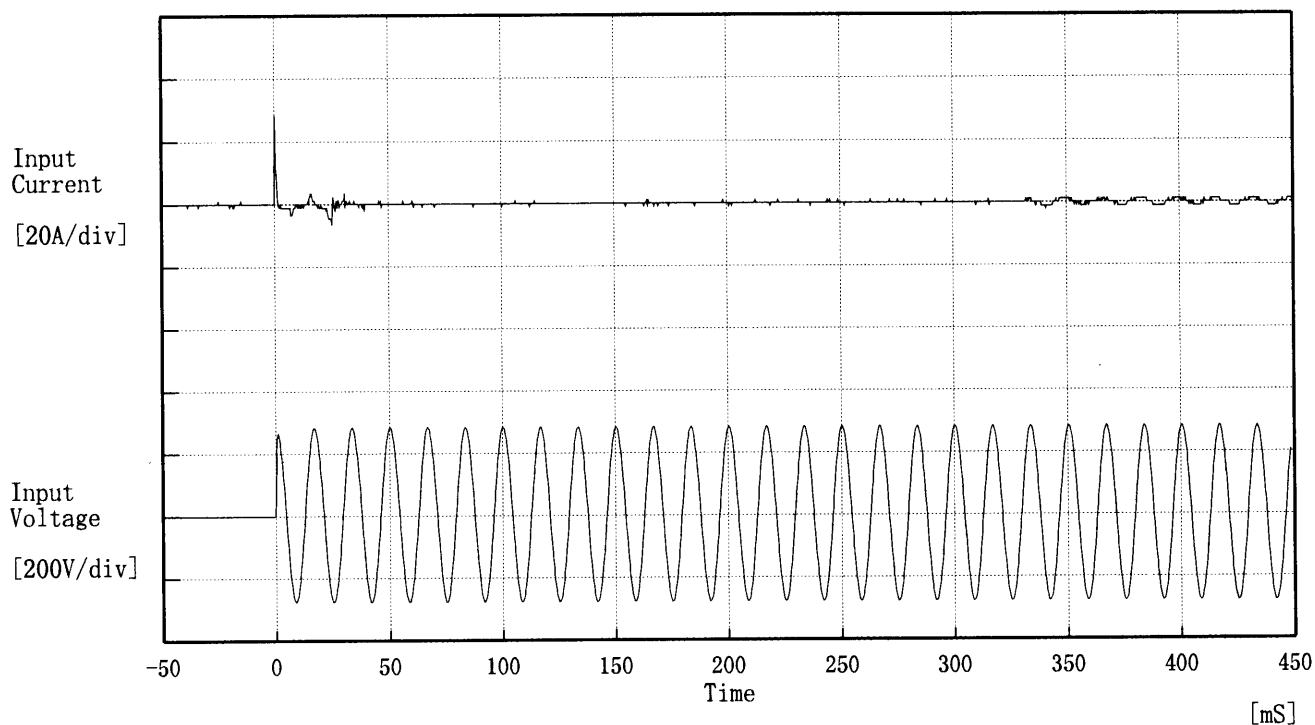
Note: Slanted line shows the range of the rated ambient temperature.

(注)斜線は定格周囲温度範囲を示す。

Ambient Temp. [°C]	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
	Operating Point [V]		
-20	18.3	18.3	18.3
-10	18.4	18.4	18.4
0	18.6	18.6	18.6
10	18.7	18.7	18.7
20	18.8	18.8	18.8
25	18.9	18.9	18.9
30	19.0	18.9	18.9
40	19.1	19.1	19.1
50	19.2	19.2	19.2
60	19.3	19.3	19.3
—	—	—	—

COSEL

Model	LEA75F-15	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current 突入電流	
Object		



Input Voltage 200 V

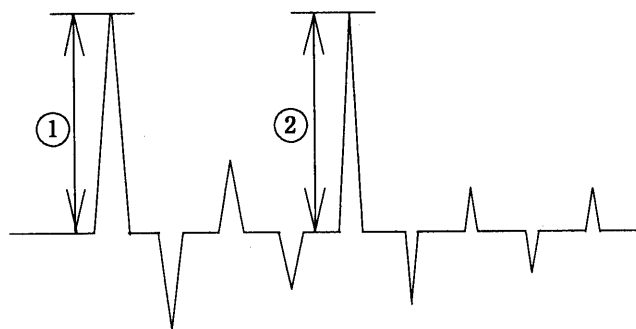
Frequency 60 Hz

Load 100 %

Inrush Current

① 28.04 [A]

② 2.25 [A]



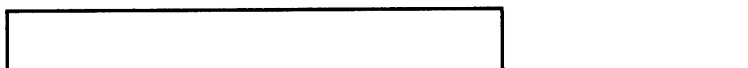
COSEL

Model	LEA75F-15	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	+15V5A	

Input Volt. 200 V

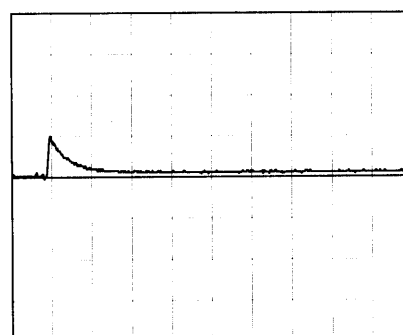
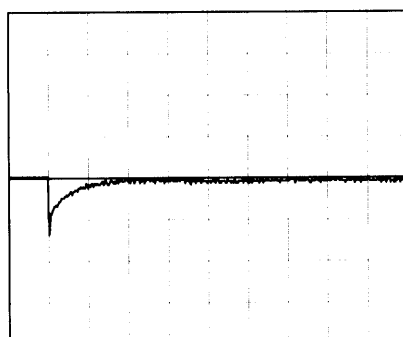
Cycle 1000 mS

Load Current



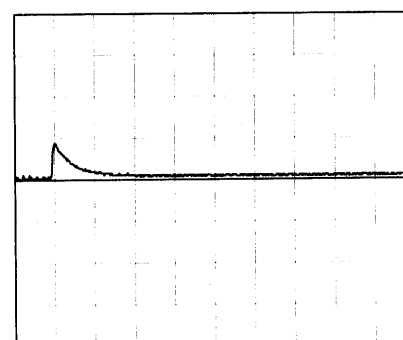
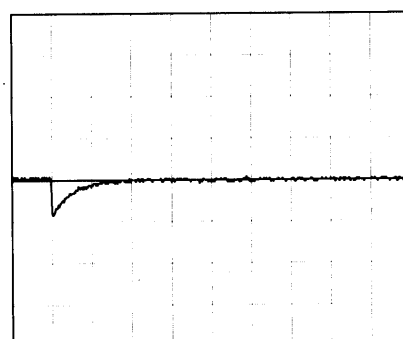
Min. Load ↔

Load 100 %



Min. Load ↔

Load 50 %



100 mV/div

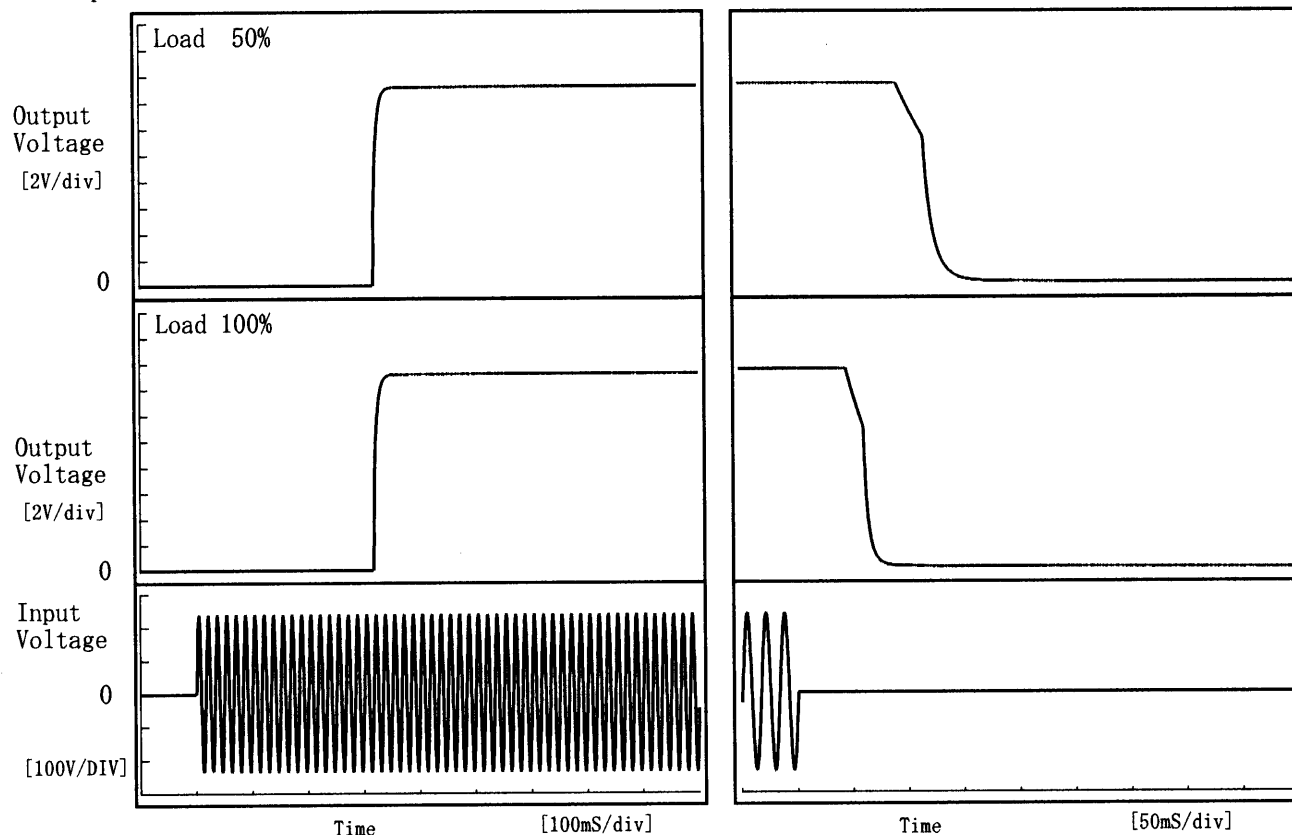
10 ms/div

COSEL

Model	LEA75F-15	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+15V5A		

1. Graph

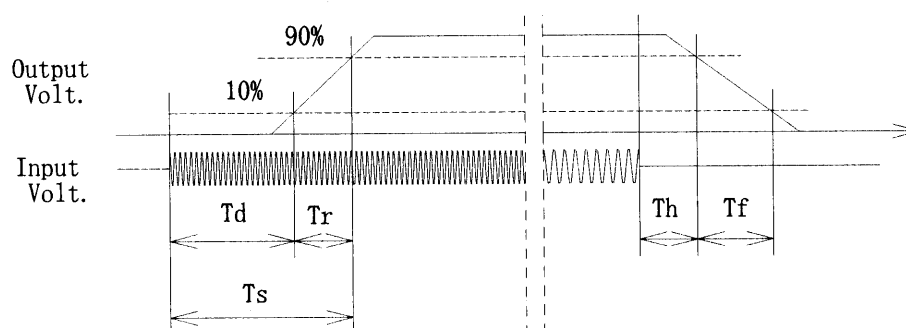
Input Volt. 170 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	318.0	10.5	328.5	101.3	33.3
100 %	318.0	10.0	328.0	51.5	19.3



COSEL

COSEL																																																							
Model	LEA75F-15																																																						
Item	Ambient Temperature Drift 周囲温度変動		Testing Circuitry Figure A																																																				
Object	+15V5A																																																						
1. Graph	<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> <p>(注) 斜線は定格周囲温度範囲を示す。</p>		2. Values																																																				
		<table><tr><td>Temperature</td><td>Input Volt. 170[V]</td><td>Input Volt. 200[V]</td><td>Input Volt. 264[V]</td></tr><tr><td>[°C]</td><td>Output Volt. [V]</td><td>Output Volt. [V]</td><td>Output Volt. [V]</td></tr><tr><td>-20</td><td>15.108</td><td>15.108</td><td>15.108</td></tr><tr><td>-10</td><td>15.110</td><td>15.110</td><td>15.110</td></tr><tr><td>0</td><td>15.112</td><td>15.112</td><td>15.112</td></tr><tr><td>10</td><td>15.113</td><td>15.113</td><td>15.113</td></tr><tr><td>20</td><td>15.115</td><td>15.115</td><td>15.115</td></tr><tr><td>25</td><td>15.115</td><td>15.115</td><td>15.115</td></tr><tr><td>30</td><td>15.116</td><td>15.116</td><td>15.115</td></tr><tr><td>40</td><td>15.112</td><td>15.112</td><td>15.112</td></tr><tr><td>50</td><td>15.106</td><td>15.106</td><td>15.106</td></tr><tr><td>60</td><td>15.097</td><td>15.097</td><td>15.097</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>	Temperature	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	[°C]	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]	-20	15.108	15.108	15.108	-10	15.110	15.110	15.110	0	15.112	15.112	15.112	10	15.113	15.113	15.113	20	15.115	15.115	15.115	25	15.115	15.115	15.115	30	15.116	15.116	15.115	40	15.112	15.112	15.112	50	15.106	15.106	15.106	60	15.097	15.097	15.097	—	—	—	—	
Temperature	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]																																																				
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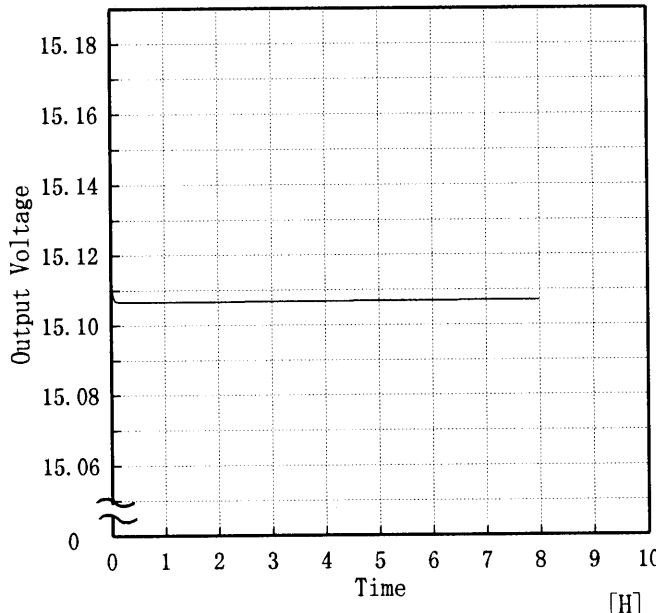
COSEL

Model		LEA75F-15																																				
Item		Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧																																				
Object		+15V5A																																				
1. Graph		<div> <div> <div>□</div> <div>Load 50%</div> </div> <div> <div>△</div> <div>Load 100%</div> </div> </div> <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>																																				
2. Values		<table border="1"> <thead> <tr> <th>Ambient Temp. [°C]</th><th>Load 50% Input Volt. [V]</th><th>Load 100% Input Volt. [V]</th></tr> </thead> <tbody> <tr><td>-20</td><td>72</td><td>73</td></tr> <tr><td>-10</td><td>72</td><td>73</td></tr> <tr><td>0</td><td>72</td><td>73</td></tr> <tr><td>10</td><td>72</td><td>73</td></tr> <tr><td>20</td><td>72</td><td>73</td></tr> <tr><td>25</td><td>72</td><td>73</td></tr> <tr><td>30</td><td>72</td><td>73</td></tr> <tr><td>40</td><td>72</td><td>73</td></tr> <tr><td>50</td><td>72</td><td>73</td></tr> <tr><td>60</td><td>72</td><td>73</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>	Ambient Temp. [°C]	Load 50% Input Volt. [V]	Load 100% Input Volt. [V]	-20	72	73	-10	72	73	0	72	73	10	72	73	20	72	73	25	72	73	30	72	73	40	72	73	50	72	73	60	72	73	—	—	—
Ambient Temp. [°C]	Load 50% Input Volt. [V]	Load 100% Input Volt. [V]																																				
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-10	72	73																																				
0	72	73																																				
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20	72	73																																				
25	72	73																																				
30	72	73																																				
40	72	73																																				
50	72	73																																				
60	72	73																																				
—	—	—																																				

COSEL

Model		LEA75F-15																																						
Item		Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)																																						
Object		+15V5A																																						
1. Graph		<div> <div> <div>-----□-----</div> <div>Load 50%</div> </div> <div> <div>-----△-----</div> <div>Load 100%</div> </div> </div> <div> <div> <div>[mV]</div> <div>150</div> <div>125</div> <div>100</div> <div>75</div> <div>50</div> <div>25</div> <div>0</div> </div> <div> <div>Ripple Voltage</div> <div>[-30 -10 10 30 50 70]</div> <div>Ambient Temperature [°C]</div> </div> </div> <div> <div>Input Volt. 200 V</div> <div>Note: Slanted line shows the range of the rated ambient temperature.</div> <div>(注)斜線は定格周囲温度範囲を示す。</div> </div>																																						
2. Values		<table> <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> <tr><td>-20</td><td>85</td><td>85</td></tr> <tr><td>-10</td><td>65</td><td>65</td></tr> <tr><td>0</td><td>55</td><td>55</td></tr> <tr><td>10</td><td>45</td><td>45</td></tr> <tr><td>20</td><td>40</td><td>40</td></tr> <tr><td>25</td><td>40</td><td>40</td></tr> <tr><td>30</td><td>35</td><td>35</td></tr> <tr><td>40</td><td>30</td><td>30</td></tr> <tr><td>50</td><td>30</td><td>30</td></tr> <tr><td>60</td><td>25</td><td>25</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </table>	Ambient Temp. [°C]	Load 50%	Load 100%	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]	-20	85	85	-10	65	65	0	55	55	10	45	45	20	40	40	25	40	40	30	35	35	40	30	30	50	30	30	60	25	25	—	—	—
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COSEL

COSEL																									
Model	LEA75F-15																								
Item	Time Lapse Drift 経時ドリフト	Temperature	25 ℃																						
		Testing Circuitry	Figure A																						
Object	+15V5A																								
1. Graph		2.Values																							
<div>[V]</div> <div></div> <div>Output Voltage [V]</div> <div>Time [H]</div> <div>Input Volt. 200V</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>15.113</td></tr><tr><td>0.5</td><td>15.107</td></tr><tr><td>1.0</td><td>15.107</td></tr><tr><td>2.0</td><td>15.107</td></tr><tr><td>3.0</td><td>15.107</td></tr><tr><td>4.0</td><td>15.107</td></tr><tr><td>5.0</td><td>15.107</td></tr><tr><td>6.0</td><td>15.107</td></tr><tr><td>7.0</td><td>15.107</td></tr><tr><td>8.0</td><td>15.107</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	15.113	0.5	15.107	1.0	15.107	2.0	15.107	3.0	15.107	4.0	15.107	5.0	15.107	6.0	15.107	7.0	15.107	8.0	15.107
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8.0	15.107																								

COSEL

Model	LEA75F-15	Testing Circuitry Figure A
Item	Output Voltage Accuracy 定電圧精度	
Object	+15V5A	

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 : 170~264 V

Load Current : 0.00~5 A

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

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

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 : 170~264 V

負荷電流 : 0.00~5 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 (Ratio) [%]
Maximum Voltage	25	264	0.00	15.126	±11	±0.1
Minimum Voltage	50	264	5.00	15.106		

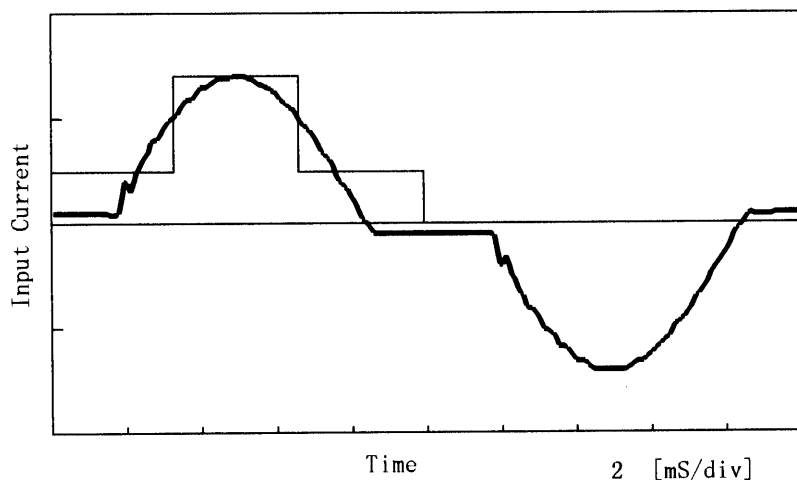
COSEL

Model	LEA75F-15	Temperature	25°C
Item	Harmonic Current 高調波電流	Testing Circuitry	Figure E
Object			

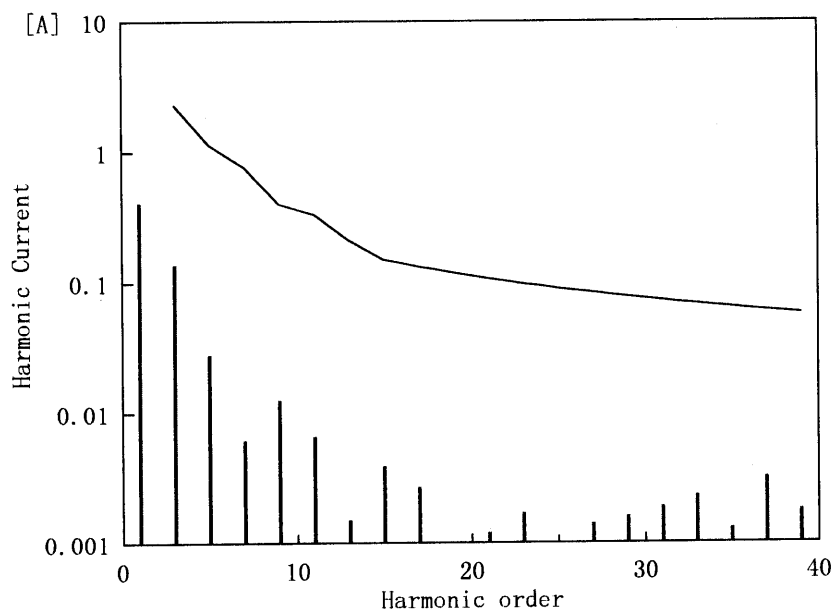
1. Input Current Waveform

— Input Current
 — Envelope of the input current to classify equipment as Class D
 クラスDの機器を決定するための入力電流包絡線

0.5 A/div



2. Harmonic Current



— Harmonic Current
 高調波電流
 — Limits for Class A equipment
 クラスAの機器に対する限度値

Conditions	Values
Input Voltage [V]	230.4
Input Current [A]	0.435
Active Power [W]	93.4
Apparent Power [VA]	100.3
Frequency [Hz]	50
Power Factor	0.931
Output Power [W]	75

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	0.41130
2	—	0.00030
3	2.29601	0.13780
4	—	0.00000
5	1.13802	0.02800
6	—	0.00000
7	0.76866	0.00620
8	—	0.00000
9	0.39931	0.01260
10	—	0.00010
11	0.32943	0.00660
12	—	0.00010
13	0.20964	0.00150
14	—	0.00010
15	0.14974	0.00390
16	—	0.00000
17	0.13212	0.00270
18	—	0.00000
19	0.11822	0.00010
20	—	0.00010
21	0.10696	0.00120
22	—	0.00010
23	0.09766	0.00170
24	—	0.00010
25	0.08984	0.00100
26	—	0.00010
27	0.08319	0.00140
28	—	0.00000
29	0.07745	0.00160
30	—	0.00010
31	0.07245	0.00190
32	—	0.00010
33	0.06806	0.00230
34	—	0.00000
35	0.06417	0.00130
36	—	0.00010
37	0.06071	0.00320
38	—	0.00010
39	0.05759	0.00180
40	—	0.00010

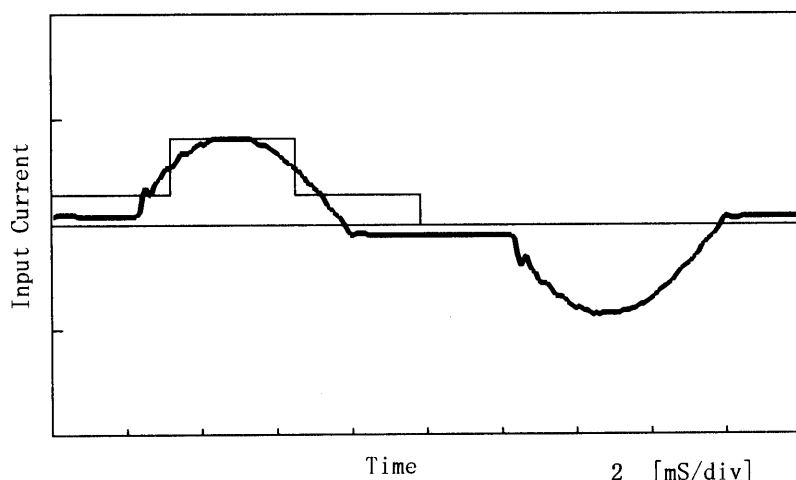
COSEL

Model	LEA75F-15	Temperature	25°C
Item	Harmonic Current 高調波電流	Testing Circuitry	Figure E
Object			

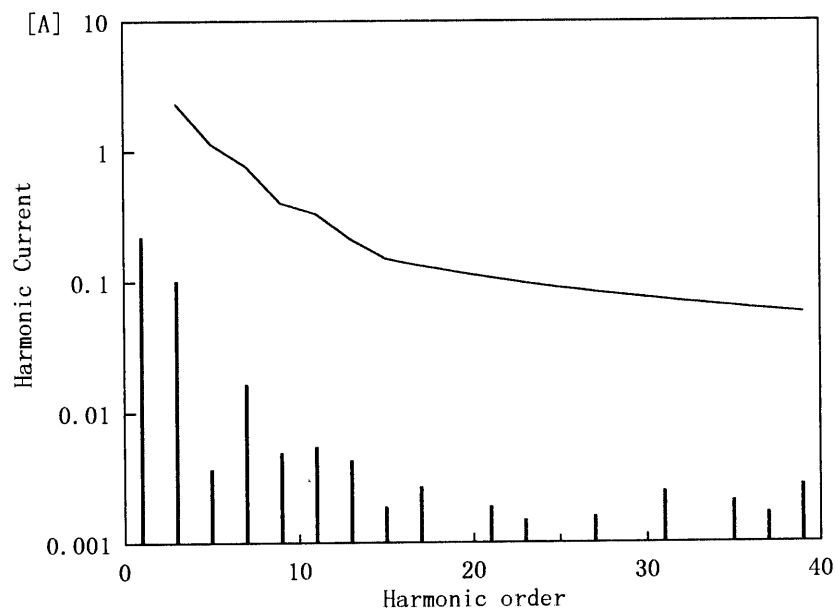
1. Input Current Waveform

— Input Current
 — Envelope of the input current to classify equipment as Class D
 クラスDの機器を決定するための入力電流包絡線

0.5 A/div



2. Harmonic Current



— Harmonic Current
 高調波電流
 — Limits for Class A equipment
 クラスAの機器に対する限度値

Conditions	Values
Input Voltage [V]	230.5
Input Current [A]	0.246
Active Power [W]	49.6
Apparent Power[VA]	56.7
Frequency [Hz]	50
Power Factor	0.875
Output Power [W]	37.5

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	0.22260
2	—	0.00030
3	2.29501	0.10230
4	—	0.00000
5	1.13753	0.00370
6	—	0.00000
7	0.76833	0.01660
8	—	0.00010
9	0.39913	0.00490
10	—	0.00010
11	0.32928	0.00550
12	—	0.00000
13	0.20954	0.00430
14	—	0.00000
15	0.14967	0.00190
16	—	0.00010
17	0.13207	0.00270
18	—	0.00010
19	0.11816	0.00080
20	—	0.00000
21	0.10691	0.00190
22	—	0.00010
23	0.09761	0.00150
24	—	0.00010
25	0.08980	0.00090
26	—	0.00010
27	0.08315	0.00160
28	—	0.00000
29	0.07742	0.00100
30	—	0.00010
31	0.07242	0.00250
32	—	0.00000
33	0.06803	0.00080
34	—	0.00000
35	0.06415	0.00210
36	—	0.00010
37	0.06068	0.00170
38	—	0.00000
39	0.05757	0.00280
40	—	0.00010

COSEL

COSEL

		Testing Circuitry Figure A
Model	LEA75F-15	
Item	Condensation 結露特性	
Object	+15V5A	

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]	15.117	Input Volt.: 200V, Load Current:5A
Line Regulation [mV]	1	Input Volt.: 170～264V, Load Current:5A
Load Regulation [mV]	9	Input Volt.: 200V, Load Current:0～5A

COSEL

Model	LEA75F-15	Temperature	25℃
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	—	—	—
(B) IEC60950	—	—	—

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 230 [V]	Input Volt. 264 [V]
(B) IEC60950	0.32	0.44	0.52

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	LEA75F-15	Temperature Testing Circuitry	25°C Figure C
Item	Line Noise Tolerance 入力雑音耐量		
Object	+15V5A		

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 :200 V
 Pulse Voltage :2000 V
 Pulse Cycle :10 mS
 Pulse Input Duration:1 min. or more
 Load :100 %

COSEL

Model	LEA75F-15	Temperature	25°C
Item	Conducted Emission 雑音端子電圧	Testing Circuitry	Figure D
Object			

1. Graph

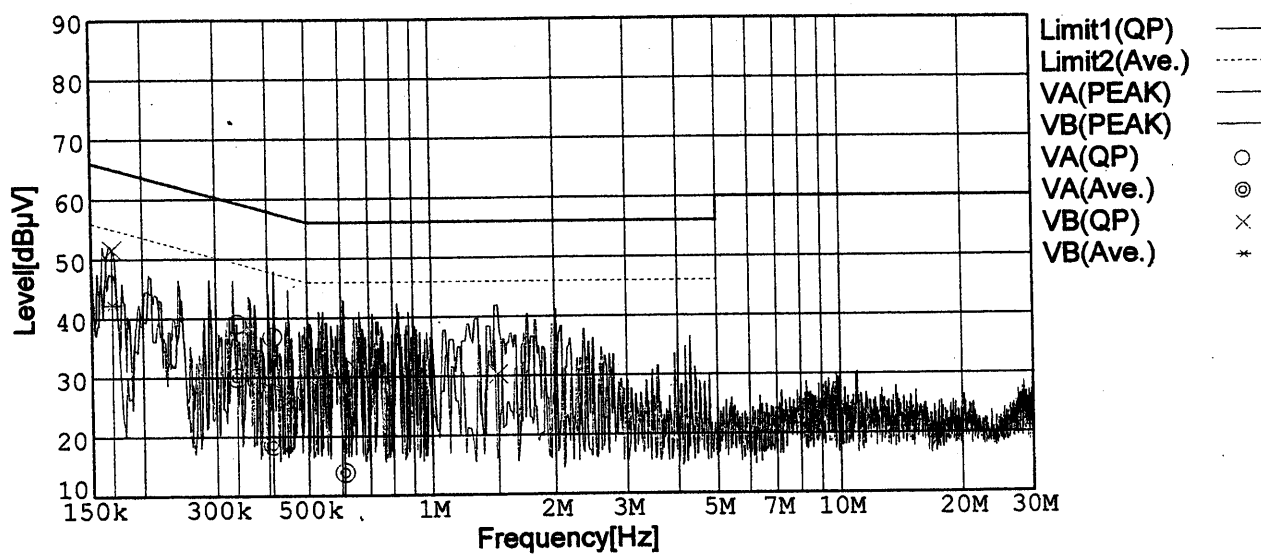
Remarks

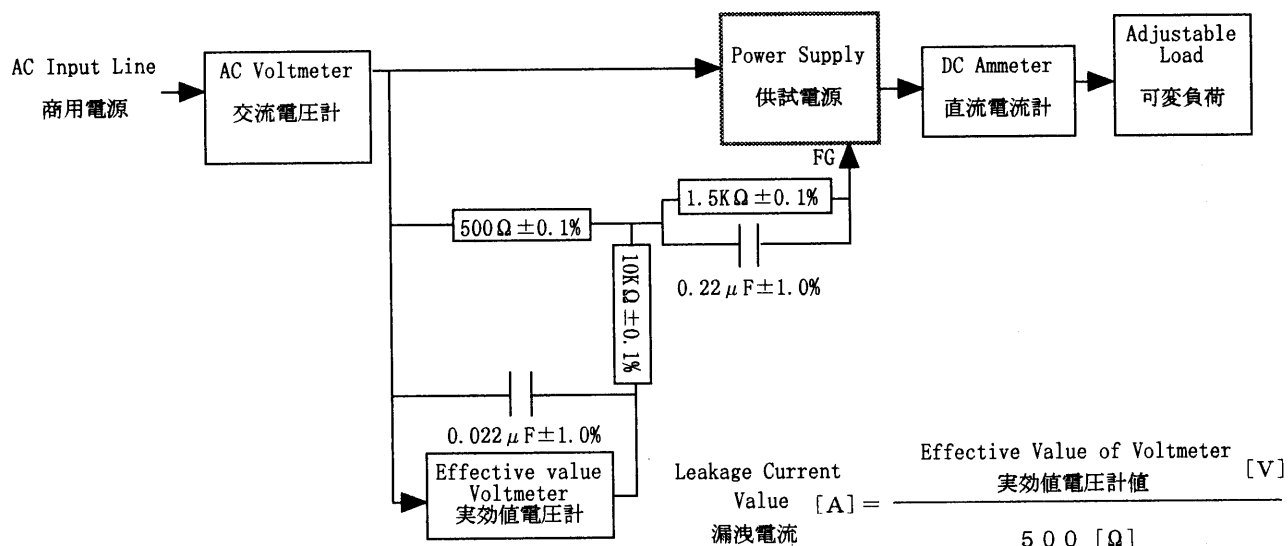
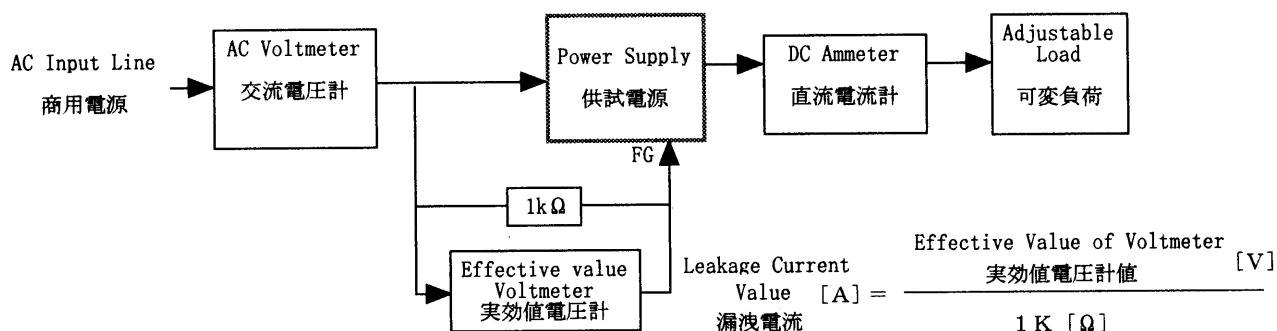
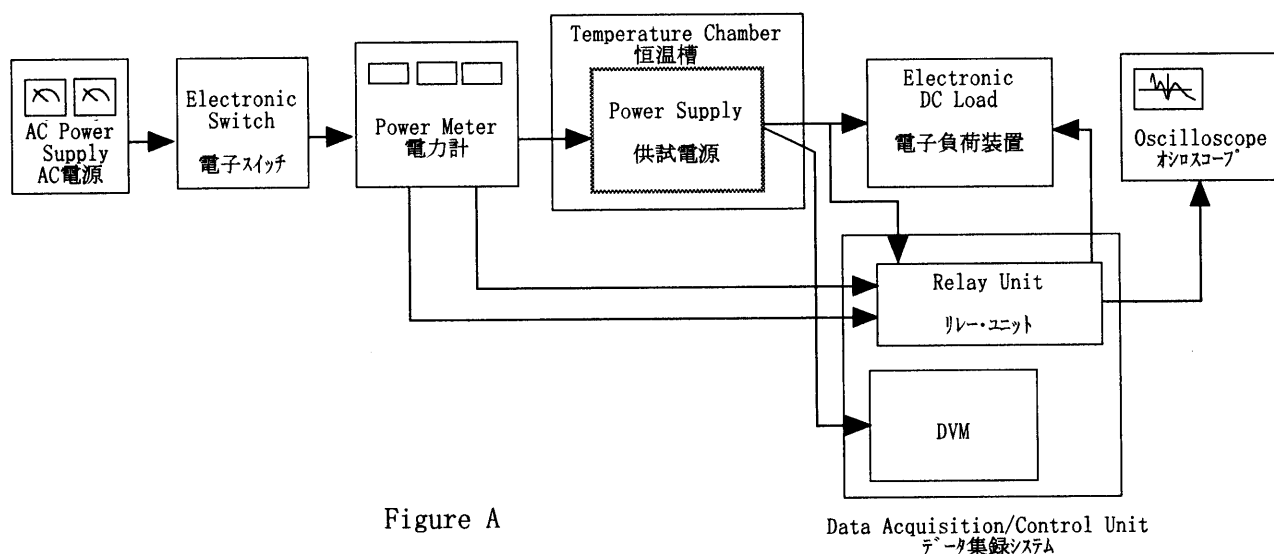
Input Volt. 230V (CISPR Pub22 Class B)

Load 100 %

Limit1: [CISPR Pub22] Class B(QP)

Limit2: [CISPR Pub22] Class B(Ave.)





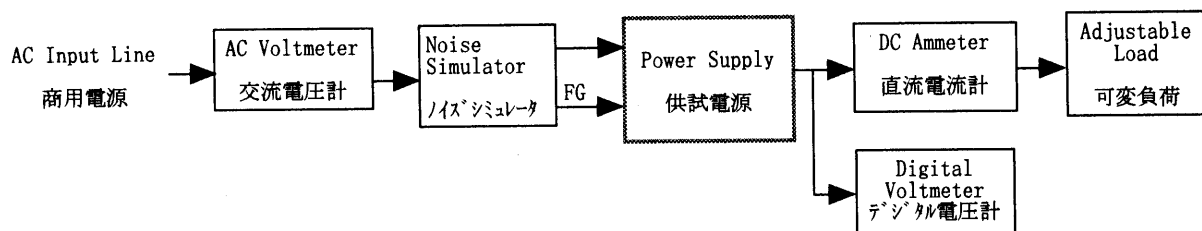


Figure C

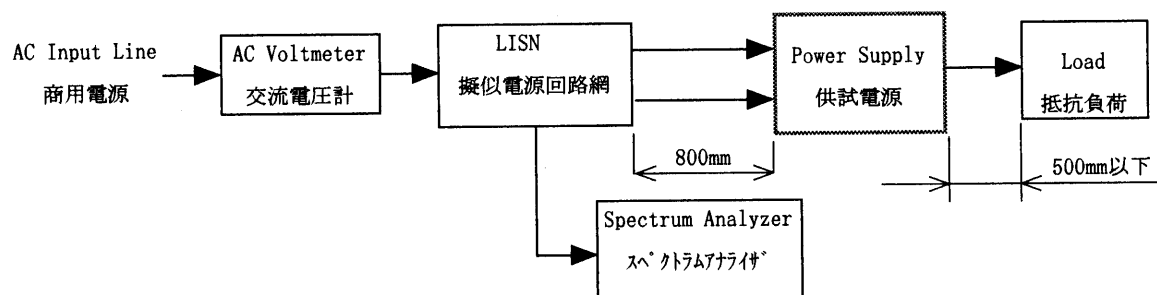


Figure D

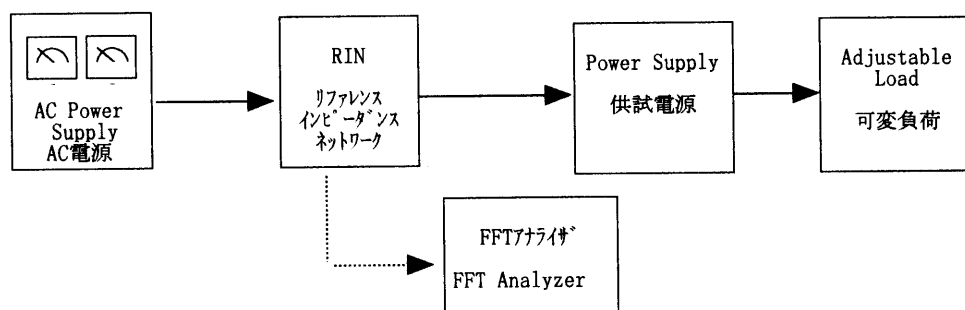


Figure E