



TEST DATA OF LEA150F-3R3-Y (100V INPUT)

Regulated DC Power Supply
Apr. 24. 2002

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コーセル株式会社
COSEL CO.,LTD.

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(Final Page 29)

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Model		LEA150F-3R3-Y	
Item		Line Regulation 静的入力変動	
Object		+3.3V30A	

1. Graph

□

Load 50%

△

Load 100%

Output Voltage [V]

3.46

3.44

3.42

3.40

3.38

3.36

3.34

3.32

70

90

110

130

150

Input Voltage [V]

3.46

3.44

3.42

3.40

3.38

3.36

3.34

3.32

70

90

110

130

150

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。

2. Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
75	3.393	3.390
80	3.393	3.390
85	3.393	3.390
90	3.393	3.390
100	3.393	3.390
110	3.393	3.390
120	3.393	3.390
132	3.393	3.390
140	3.393	3.390

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Model		LEA150F-3R3-Y	
Item		Input Current (by Load Current) 入力電流 (負荷特性)	
Object			
1. Graph		2. Values	

—△—

Input Volt. 85V

---□---

Input Volt. 100V

---○---

Input Volt. 132V

Input Current [A]

5.0

4.0

3.0

2.0

1.0

0.0

0

10

20

30

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。

Load Current [A]	Input Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0	0.084	0.076	0.072
6	0.472	0.404	0.316
12	0.745	0.635	0.488
18	1.034	0.879	0.667
24	1.348	1.144	0.867
30	1.667	1.411	1.069
33	1.840	1.563	1.178
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Model		LEA150F-3R3-Y		Temperature		25℃																																																				
Item		Input Power (by Load Current) 入力電力（負荷特性）		Testing Circuitry		Figure A																																																				
Object																																																										
1. Graph		<div><div>—△—</div>Input Volt. 85V</div> <div><div>---□---</div>Input Volt. 100V</div> <div><div>---○---</div>Input Volt. 132V</div>		2. Values																																																						
<div><div>Input Power [W]</div><div><div>Load Current [A]</div></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</td><td>5.1</td><td>5.1</td><td>5.2</td></tr><tr><td>6</td><td>37.1</td><td>36.9</td><td>36.6</td></tr><tr><td>12</td><td>60.3</td><td>60.0</td><td>59.4</td></tr><tr><td>18</td><td>84.9</td><td>84.3</td><td>83.2</td></tr><tr><td>24</td><td>112.4</td><td>111.6</td><td>110.1</td></tr><tr><td>30</td><td>139.9</td><td>138.7</td><td>137.0</td></tr><tr><td>33</td><td>154.8</td><td>154.0</td><td>151.8</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]	Input Power [W]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0	5.1	5.1	5.2	6	37.1	36.9	36.6	12	60.3	60.0	59.4	18	84.9	84.3	83.2	24	112.4	111.6	110.1	30	139.9	138.7	137.0	33	154.8	154.0	151.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Load Current [A]	Input Power [W]																																																									
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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。																																																										

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Model

LEA150F-3R3-Y

Item

Efficiency (by Input Voltage)
効率 (入力電圧特性)

Object

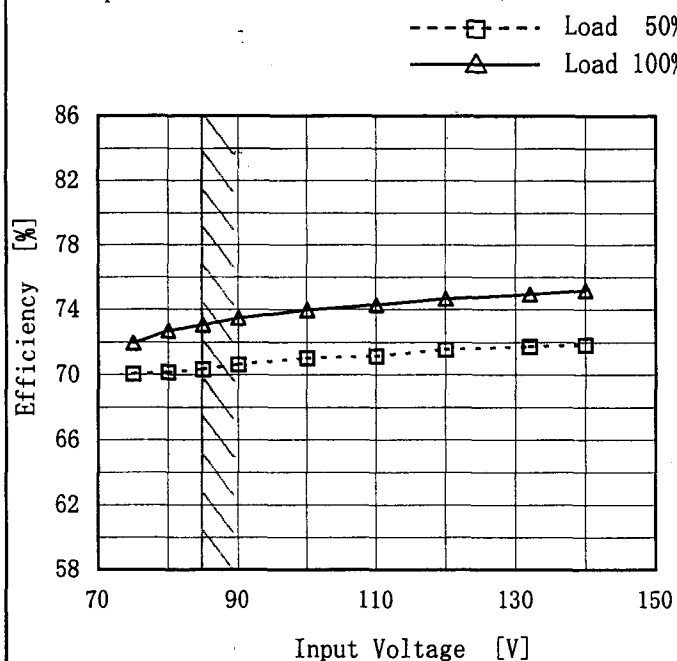
Temperature

25°C

Testing Circuitry

Figure A

1. Graph



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。

2. Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
75	70.0	72.0
80	70.1	72.7
85	70.3	73.1
90	70.6	73.5
100	71.0	74.0
110	71.1	74.3
120	71.5	74.7
132	71.7	75.0
140	71.8	75.2

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Model		LEA150F-3R3-Y	
Item		Efficiency (by Load Current) 効率 (負荷特性)	
Object			

1. Graph

—△—

Input Volt. 85V

---□---

Input Volt. 100V

---○---

Input Volt. 132V

Efficiency [%]

86

78

70

62

54

46

38

30

Load Current [A]	85V [%]	100V [%]	132V [%]
0	—	—	—
6	55.2	55.5	55.9
12	67.9	68.2	69.0
18	72.3	72.8	73.8
24	72.8	73.3	74.4
30	73.2	73.8	74.7
33	72.8	73.2	74.2
--	—	—	—
--	—	—	—
--	—	—	—
--	—	—	—

0102030

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。

Load Current [A]	Efficiency [%]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0	—	—	—
6	55.2	55.5	55.9
12	67.9	68.2	69.0
18	72.3	72.8	73.8
24	72.8	73.3	74.4
30	73.2	73.8	74.7
33	72.8	73.2	74.2
--	—	—	—
--	—	—	—
--	—	—	—
--	—	—	—

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Model		LEA150F-3R3-Y		Temperature Testing Circuitry	25℃ Figure A																																
Item		Power Factor (by Input Voltage) 力率 (入力電圧特性)																																			
Object																																					
1. Graph				2. Values																																	
<div><div>Power Factor</div><div><div><div>1.0</div><div>0.9</div><div>0.8</div><div>0.7</div><div>0.6</div><div>0.5</div><div>0.4</div></div><div><div>70</div><div>90</div><div>110</div><div>130</div><div>150</div></div><div>Input Voltage [V]</div></div><div><div>---□--- Load 50%</div><div>—△— Load 100%</div></div></div>				<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Power Factor</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>75</td><td>0.964</td><td>0.989</td></tr><tr><td>80</td><td>0.957</td><td>0.986</td></tr><tr><td>85</td><td>0.962</td><td>0.985</td></tr><tr><td>90</td><td>0.956</td><td>0.980</td></tr><tr><td>100</td><td>0.955</td><td>0.979</td></tr><tr><td>110</td><td>0.947</td><td>0.976</td></tr><tr><td>120</td><td>0.941</td><td>0.971</td></tr><tr><td>132</td><td>0.933</td><td>0.968</td></tr><tr><td>140</td><td>0.926</td><td>0.965</td></tr></table>		Input Voltage [V]	Power Factor		Load 50%	Load 100%	75	0.964	0.989	80	0.957	0.986	85	0.962	0.985	90	0.956	0.980	100	0.955	0.979	110	0.947	0.976	120	0.941	0.971	132	0.933	0.968	140	0.926	0.965
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Model		LEA150F-3R3-Y	
Item	Power Factor (by Load Current) 力率 (負荷特性)		Temperature 25℃ Testing Circuitry Figure A
Object			

1. Graph

—△—

Input Volt. 85V

---□---

Input Volt. 100V

---○---

Input Volt. 132V

Power Factor

1.0

0.9

0.8

0.7

0.6

0.5

0.4

0102030

Load Current [A]

2. Values

Load Current [A]	Power Factor		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0	0.710	0.666	0.542
6	0.919	0.909	0.875
12	0.948	0.941	0.918
18	0.962	0.956	0.941
24	0.977	0.972	0.959
30	0.984	0.980	0.968
33	0.987	0.983	0.974
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Note: Slanted line shows the range of the rated load current.

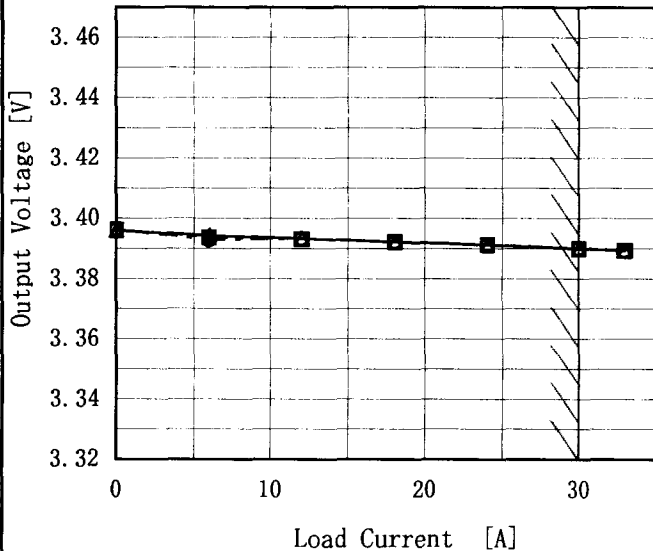
(注) 斜線は定格負荷電流範囲を示す。

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Model		LEA150F-3R3-Y		Temperature		25℃																																																				
Item		Instantaneous Interruption Compensation 瞬時停電保障		Testing Circuitry		Figure A																																																				
Object		+3.3V30A																																																								
1. Graph				2. Values																																																						
<div><div>—△—</div>Input Volt. 85V</div> <div><div>---□---</div>Input Volt. 100V</div> <div><div>---○---</div>Input Volt. 132V</div> <p>Instantaneous Compensation Time [mS]</p> <p>Load Current [A]</p>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [mS]</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</td><td>—</td><td>—</td><td>—</td></tr><tr><td>6</td><td>195</td><td>200</td><td>223</td></tr><tr><td>12</td><td>112</td><td>114</td><td>122</td></tr><tr><td>18</td><td>64</td><td>73</td><td>70</td></tr><tr><td>24</td><td>37</td><td>48</td><td>56</td></tr><tr><td>30</td><td>31</td><td>38</td><td>39</td></tr><tr><td>33</td><td>29</td><td>37</td><td>39</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]	Time [mS]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0	—	—	—	6	195	200	223	12	112	114	122	18	64	73	70	24	37	48	56	30	31	38	39	33	29	37	39	--	—	—	—	--	—	—	—	--	—	—	—	--	—	—	—
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Model		LEA150F-3R3-Y		Temperature		25℃																																																
Item		Load Regulation 静的負荷変動		Testing Circuitry		Figure A																																																
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Load Current [A]	Output Voltage [V]																																																					
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Model	LEA150F-3R3-Y	Temperature	25°C
Item	Ripple Voltage (by Load Current) リップル電圧 (負荷特性)	Testing Circuitry	Figure A
Object	+3.3V30A		

1. Graph

—△— Input Volt. 85V
 - - - ○ - - - Input Volt. 132V

Ripple Voltage [mV]

Load Current [A]

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

Ripple [mVp-p]

T1

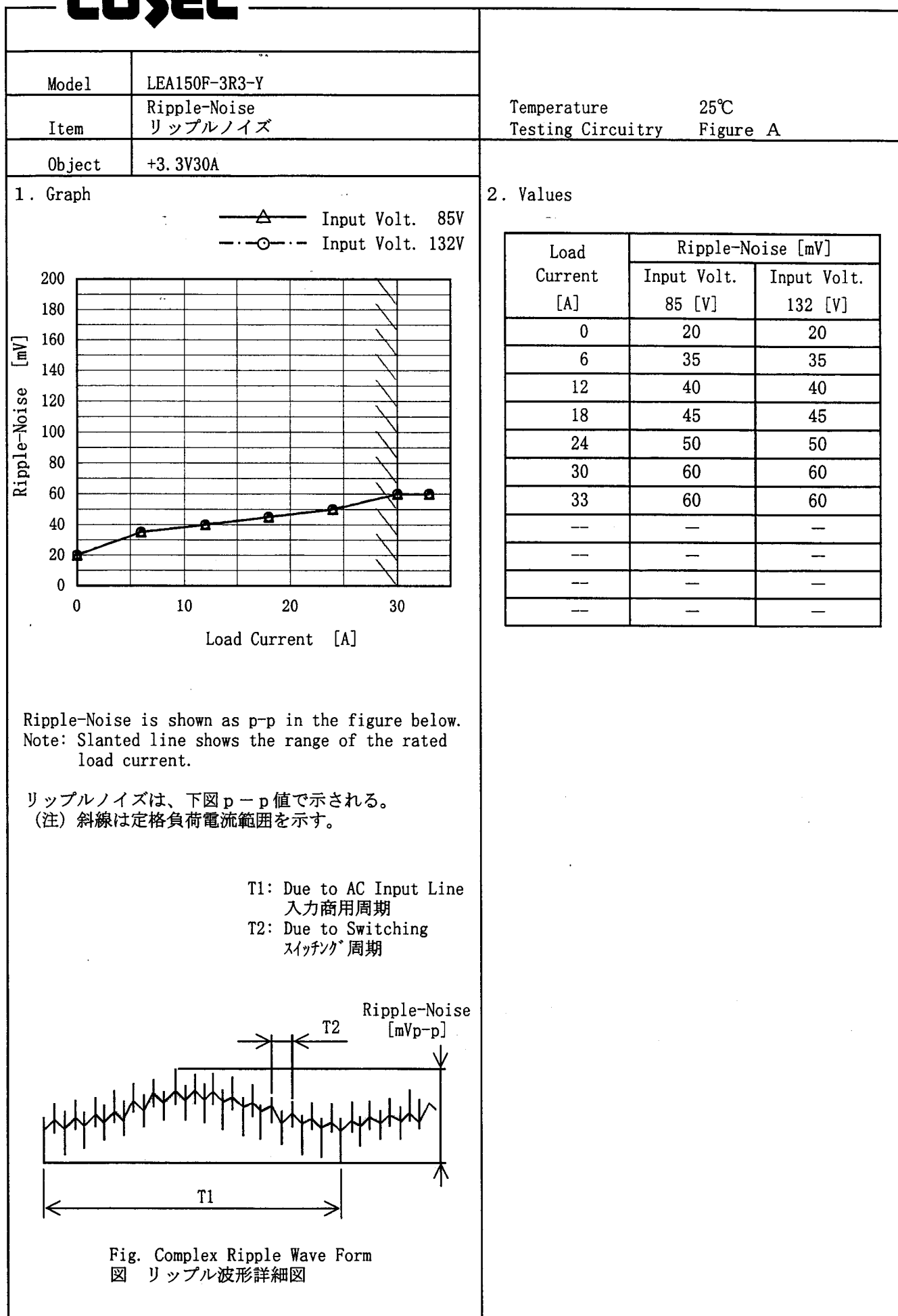
T2

Fig. Complex Ripple Wave Form
図 リップル波形詳細図

2. Values

Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0	15	15
6	20	20
12	25	25
18	30	30
24	35	35
30	35	35
33	35	35
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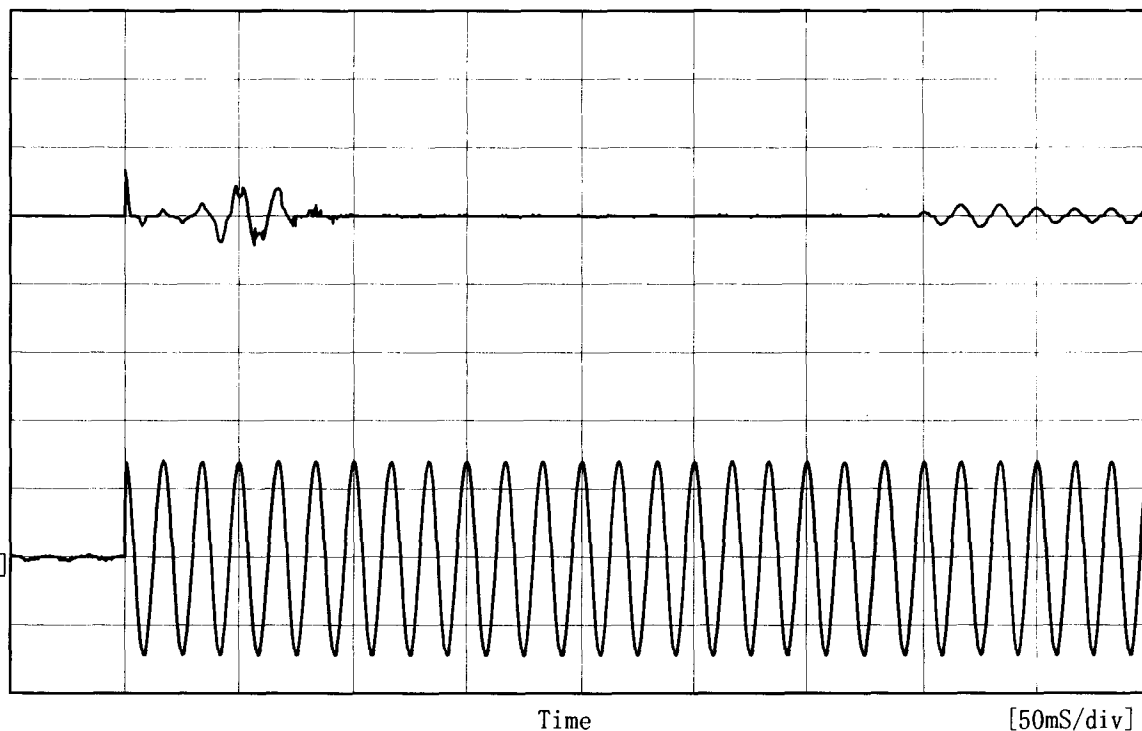
Model		LEA150F-3R3-Y		Testing Circuitry Figure A	
Item		Overvoltage Protection 過電圧保護			
Object		+3.3V30A			
1. Graph				2. Values	
<div><div><div>—△—</div><div>Input Volt. 85V</div></div><div><div>---□---</div><div>Input Volt. 100V</div></div><div><div>---○---</div><div>Input Volt. 132V</div></div></div> <div><div><div><div>Operating Point [V]</div><div>7.0</div><div>6.0</div><div>5.0</div><div>4.0</div><div>3.0</div><div>2.0</div><div>1.0</div><div>0.0</div></div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><d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iv><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div></div></div></div></div>					

COSEL

Model	LEA150F-3R3-Y	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current 突入電流	
Object		

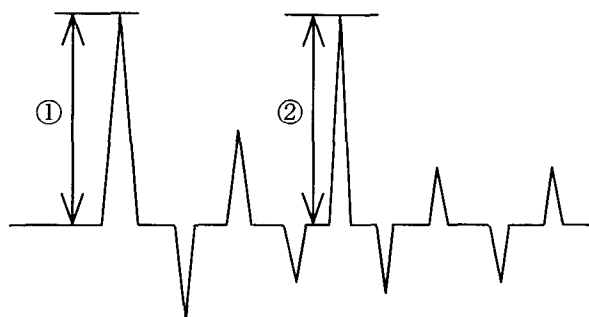
Input
Current
[20A/div]

Input
Voltage
[100V/div]



Input Voltage 100 V
Frequency 60 Hz
Load 100 %
Inrush Current

- ① 13.2 [A]
② 8.4 [A]



COSEL

Model	LEA150F-3R3-Y	Temperature	25°C
Item	Dynamic Load Response 動的負荷変動	Testing Circuitry	Figure A
Object	+3.3V30A		

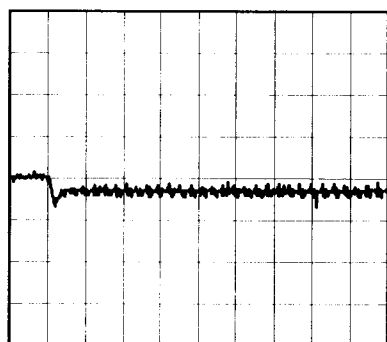
Input Volt. 100 V
Cycle 1000 ms

Load Current

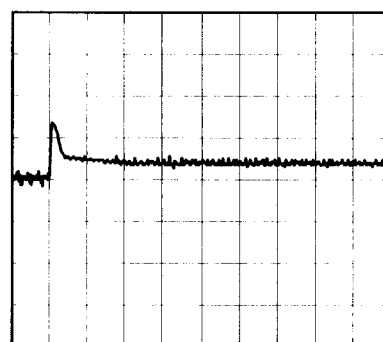
Min. Load (0A) ←→

Load 100% (30A)

100 mV/div



200 μ s/div

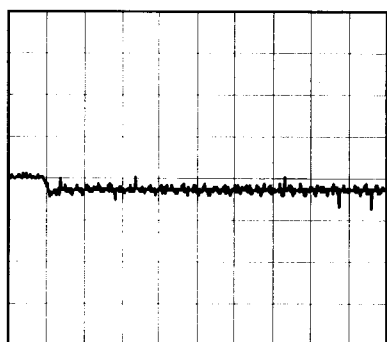


200 μ s/div

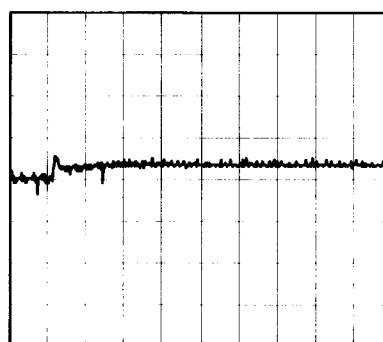
Min. Load (0A) ←→

Load 50% (15A)

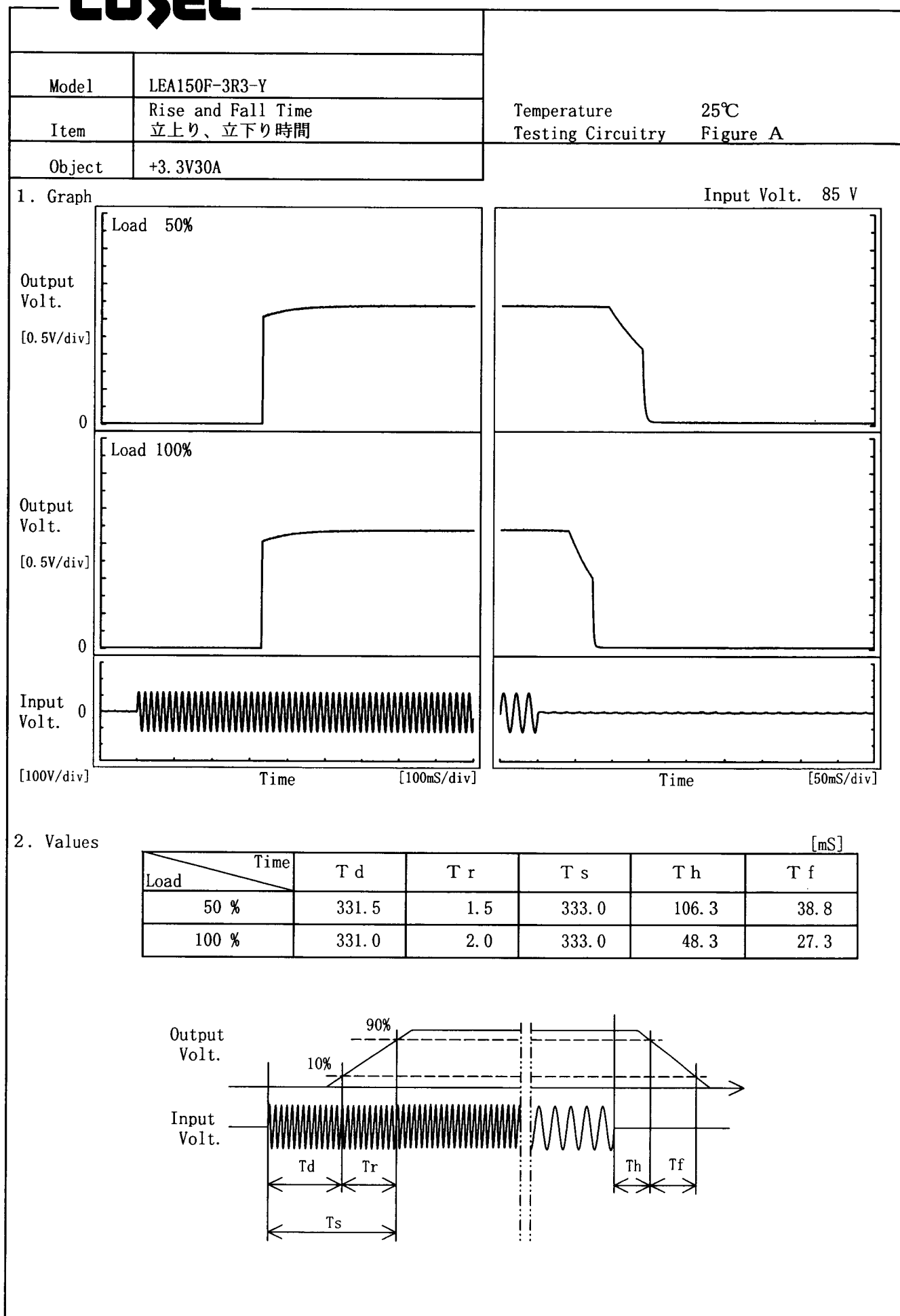
100 mV/div



200 μ s/div



200 μ s/div

COSEL

COSEL

Model		LEA150F-3R3-Y	
Item		Ambient Temperature Drift 周囲温度変動	
Object		+3.3V30A	

1. Graph

—△—

Input Volt. 85V

---□---

Input Volt. 100V

---○---

Input Volt. 132V

Output Voltage [V]

</

COSEL

Model		LEA150F-3R3-Y	
Item		Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧	
Object		+3.3V30A	
1. Graph		2. Values	

---□--- Load 50%

—△— Load 100%

Input Voltage [V]

Ambient Temperature [°C]

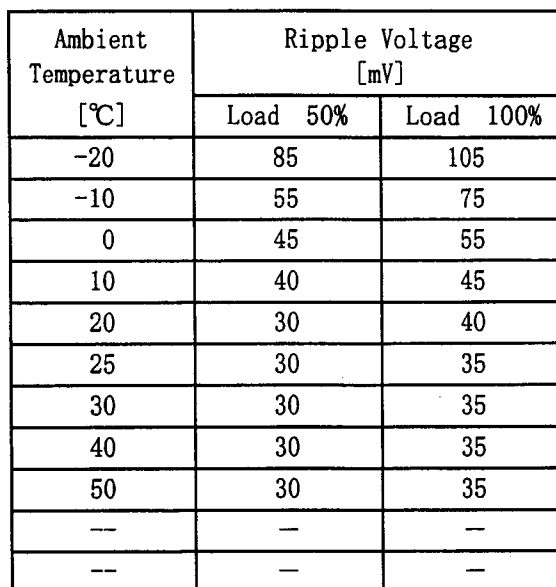
Note: Slanted line shows the range of the rated ambient temperature.

(注) 斜線は定格周囲温度範囲を示す。

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-30	72	73
-20	72	73
-10	72	73
0	72	73
10	72	73
25	72	73
30	72	73
40	72	73
55	72	73
60	72	73
--	—	—

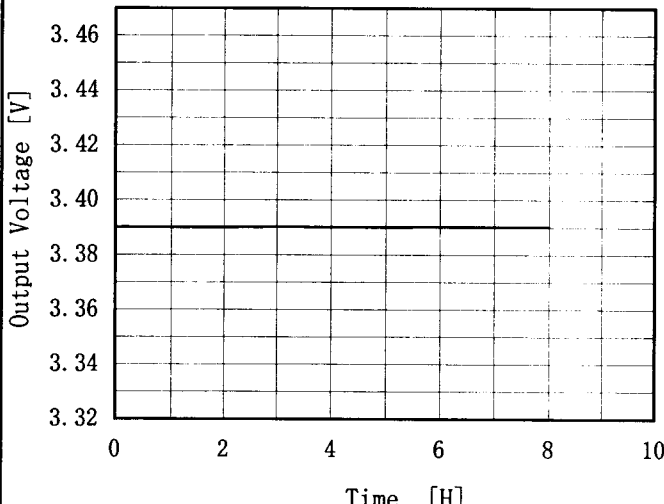
Testing Circuitry Figure A

2. Values



(注) 斜線は定格周囲温度範囲を示す。

COSEL

Model	LEA150F-3R3-Y																								
Item	Time Lapse Drift 経時ドリフト	Temperature	25℃																						
Object	+3.3V30A	Testing Circuitry	Figure A																						
1. Graph		2. Values																							
<div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 100V</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>3.390</td></tr><tr><td>0.5</td><td>3.390</td></tr><tr><td>1.0</td><td>3.390</td></tr><tr><td>2.0</td><td>3.390</td></tr><tr><td>3.0</td><td>3.390</td></tr><tr><td>4.0</td><td>3.390</td></tr><tr><td>5.0</td><td>3.390</td></tr><tr><td>6.0</td><td>3.390</td></tr><tr><td>7.0</td><td>3.390</td></tr><tr><td>8.0</td><td>3.390</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	3.390	0.5	3.390	1.0	3.390	2.0	3.390	3.0	3.390	4.0	3.390	5.0	3.390	6.0	3.390	7.0	3.390	8.0	3.390
Time since start [H]	Output Voltage [V]																								
0.0	3.390																								
0.5	3.390																								
1.0	3.390																								
2.0	3.390																								
3.0	3.390																								
4.0	3.390																								
5.0	3.390																								
6.0	3.390																								
7.0	3.390																								
8.0	3.390																								

COSEL

Model	LEA150F-3R3-Y	Testing Circuitry Figure A
Item	Output Voltage Accuracy 定電圧精度	
Object	+3.3V30A	

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 : -10 ~ 40°C

Input Voltage : 85 ~ 132V

Load Current : 0 ~ 30A

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

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

1. 定電圧精度

周囲温度、入力電圧、負荷電流を下記仕様内で、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 ~ 40°C

入力電圧 : 85 ~ 132V

負荷電流 : 0 ~ 30A

* 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) = $\frac{\text{変動値}}{\text{定格出力電圧}} \times 100$

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	40	85	0	3.395	±4	±0.1
Minimum Voltage	-10	100	30	3.388		

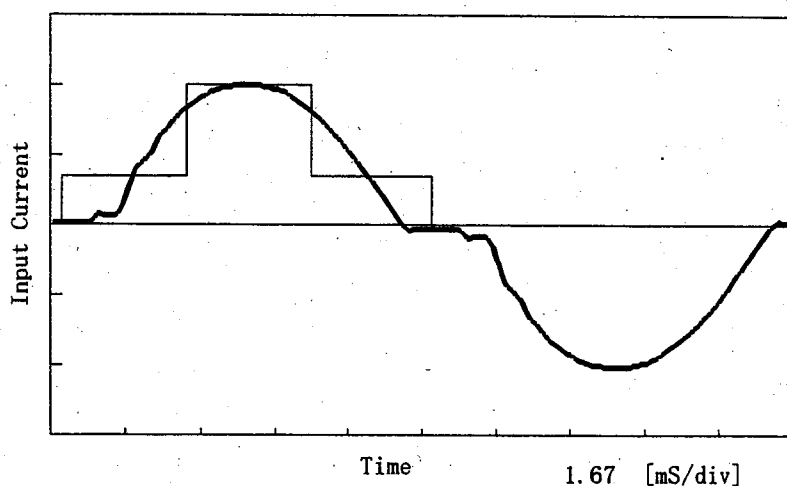
COSEL

Model	LEA150F-3R3-Y	Temperature	25°C
Item	Harmonic Current 高調波電流	Testing Circuitry	Figure E
Object			

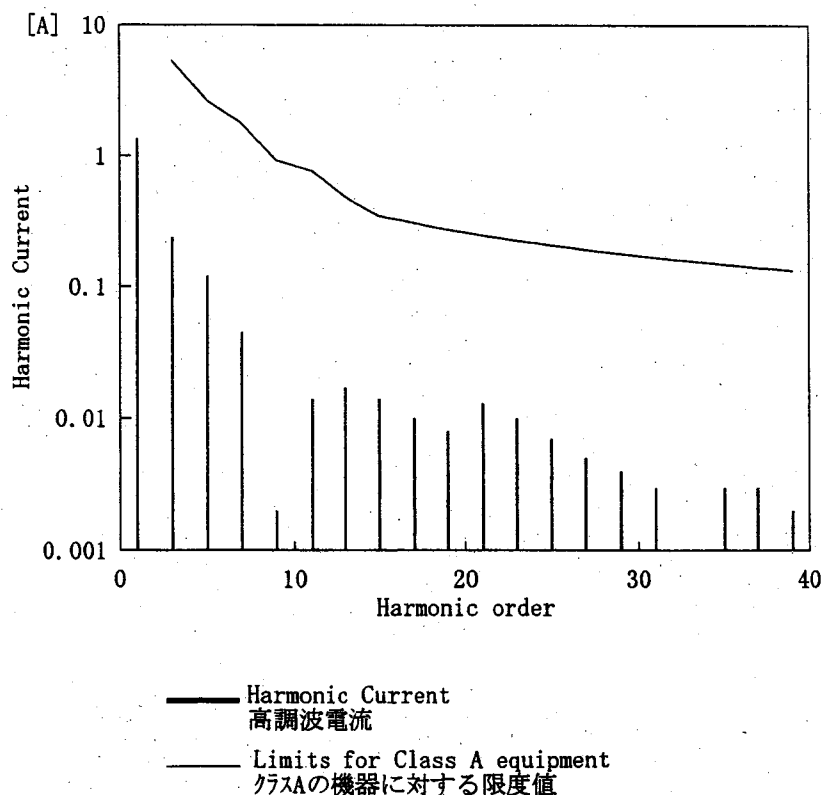
1. Input Current Waveform

— 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

1 A/div



2. Harmonic Current



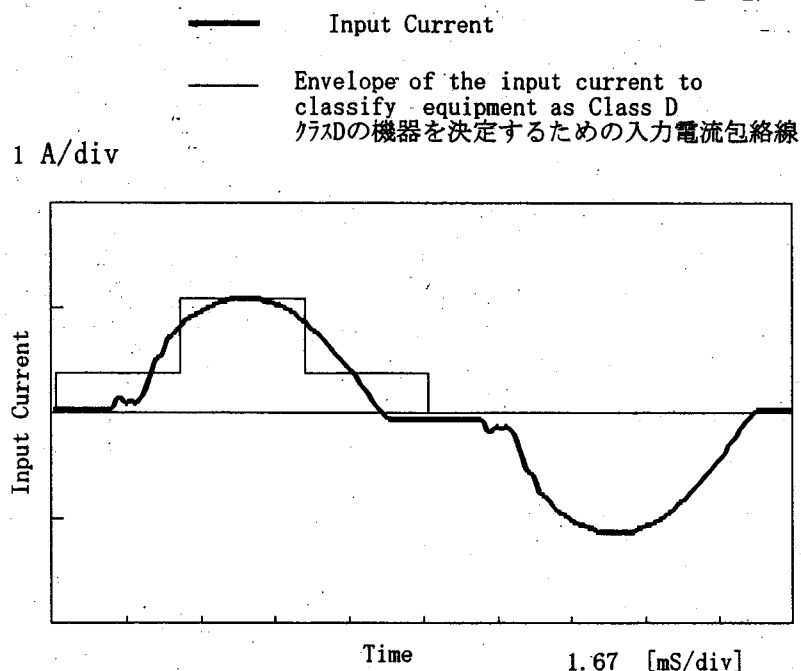
Conditions	Values
Input Voltage [V]	99.8
Input Current [A]	1.375
Active Power [W]	134.5
Apparent Power [VA]	137.3
Frequency [Hz]	60
Power Factor	0.980
Output Power [W]	99

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	1.34700
2	—	0.00100
3	5.30060	0.23800
4	—	0.00100
5	2.62725	0.12100
6	—	0.00000
7	1.77455	0.04500
8	—	0.00000
9	0.92184	0.00200
10	—	0.00000
11	0.76052	0.01400
12	—	0.00000
13	0.48397	0.01700
14	—	0.00000
15	0.34569	0.01400
16	—	0.00000
17	0.30502	0.01000
18	—	0.00000
19	0.27291	0.00800
20	—	0.00000
21	0.24692	0.01300
22	—	0.00000
23	0.22545	0.01000
24	—	0.00000
25	0.20741	0.00700
26	—	0.00000
27	0.19205	0.00500
28	—	0.00000
29	0.17881	0.00400
30	—	0.00000
31	0.16727	0.00300
32	—	0.00000
33	0.15713	0.00100
34	—	0.00000
35	0.14815	0.00300
36	—	0.00000
37	0.14015	0.00300
38	—	0.00000
39	0.13296	0.00200
40	—	0.00000

COSEL

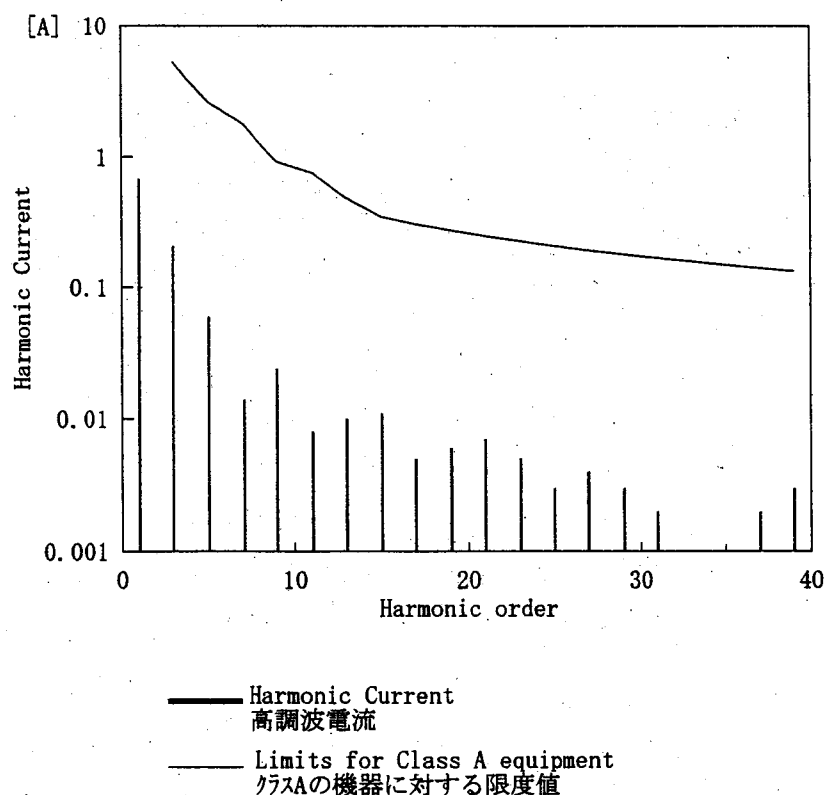
Model	LEA150F-3R3-Y	Temperature	25°C
Item	Harmonic Current 高調波電流	Testing Circuitry	Figure E
Object			

1. Input Current Waveform



Conditions	Values
Input Voltage [V]	100.1
Input Current [A]	0.714
Active Power [W]	67.9
Apparent Power [VA]	71.5
Frequency [Hz]	60
Power Factor	0.950
Output Power [W]	49.5

2. Harmonic Current



Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	0.67900
2	—	0.00100
3	5.28472	0.20700
4	—	0.00000
5	2.61938	0.06000
6	—	0.00000
7	1.76923	0.01400
8	—	0.00000
9	0.91908	0.02400
10	—	0.00000
11	0.75824	0.00800
12	—	0.00000
13	0.48252	0.01000
14	—	0.00000
15	0.34466	0.01100
16	—	0.00000
17	0.30411	0.00500
18	—	0.00000
19	0.27210	0.00600
20	—	0.00000
21	0.24618	0.00700
22	—	0.00000
23	0.22478	0.00500
24	—	0.00000
25	0.20679	0.00300
26	—	0.00000
27	0.19148	0.00400
28	—	0.00000
29	0.17827	0.00300
30	—	0.00000
31	0.16677	0.00200
32	—	0.00000
33	0.15666	0.00100
34	—	0.00000
35	0.14771	0.00000
36	—	0.00000
37	0.13973	0.00200
38	—	0.00000
39	0.13256	0.00300
40	—	0.00000

COSEL

Model	LEA150F-3R3-Y	Temperature	25℃
Item	Leakage Current 漏洩電流	Testing Circuitry	Figure B
Object	_____		

1. Results

Standards	Leakage Current [mA]		
	Input Volt.	Input Volt.	Input Volt.
	85 [V]	100 [V]	132 [V]
(A) DEN-AN	0.15	0.18	0.24
(B) IEC60950	0.15	0.18	0.24

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

2. Condition

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

交流入力の一相について測定し、その大きい方を漏洩電流測定値とする。

COSEL

Model	LEA150F-3R3-Y		
Item	Line Noise Tolerance 入力雑音耐量	Temperature	25℃
		Testing Circuitry	Figure C
Object	+3.3V30A		

1. Conditions

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

2. Results

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

COSEL

Model	LEA150F-3R3-Y	Temperature	25°C
Item	Conducted Emission 雑音端子電圧	Testing Circuitry	Figure D
Object			

1. Graph

Remarks

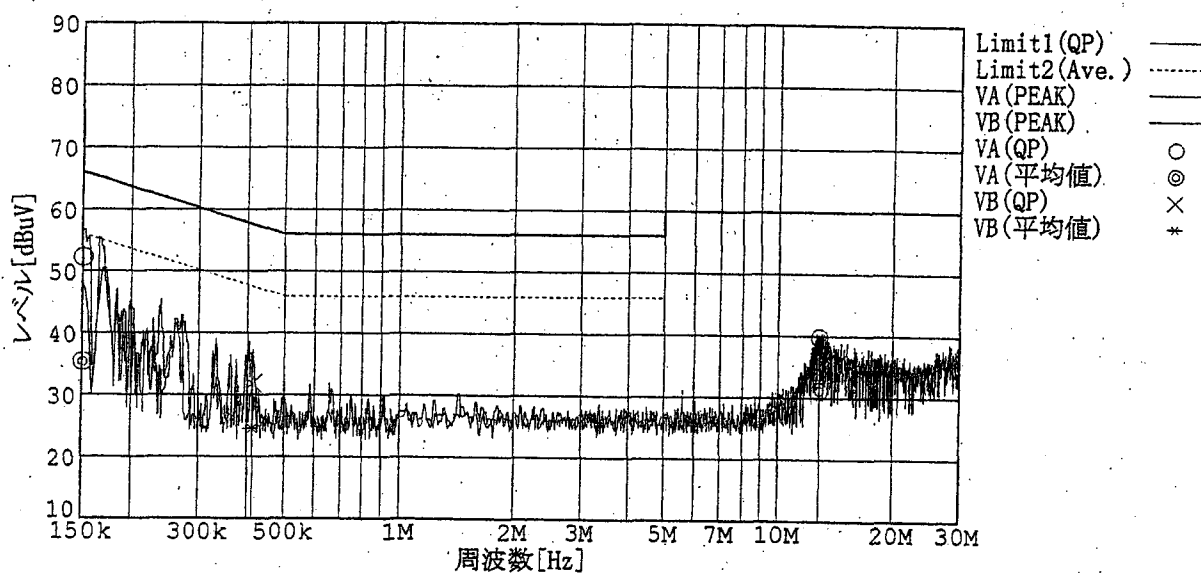
Input Volt. 100V (VCCI Class B)

120V (FCC Class B)

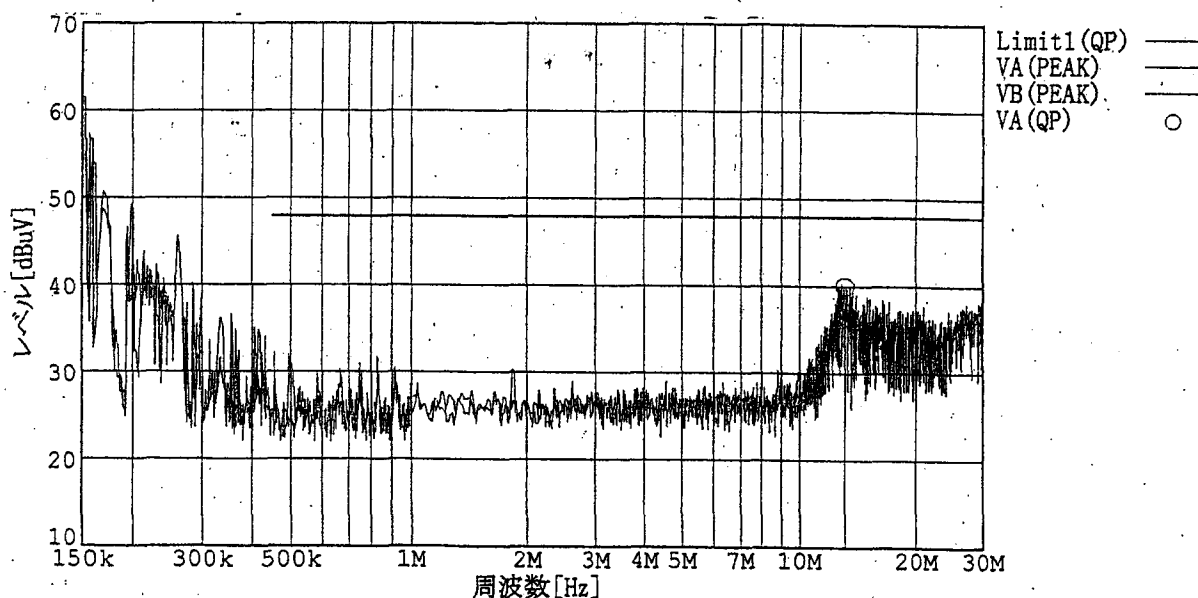
Load 100%

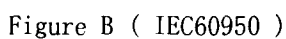
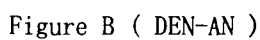
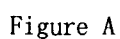
規格1 : [VCCI] Class B(QP)

規格2 : [VCCI] Class B(平均値)



規格1 : [FCC Part15] Class B





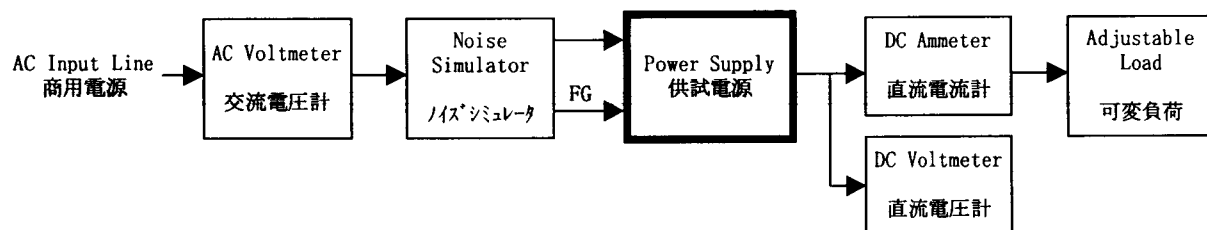


Figure C

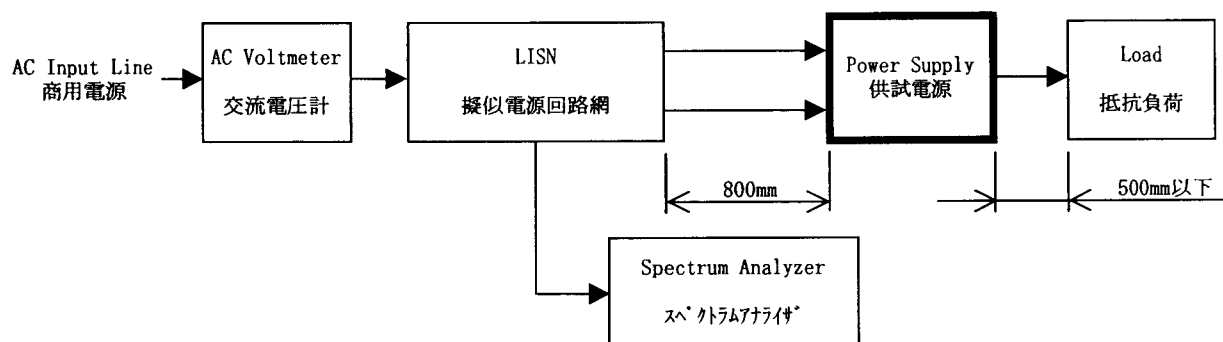


Figure D

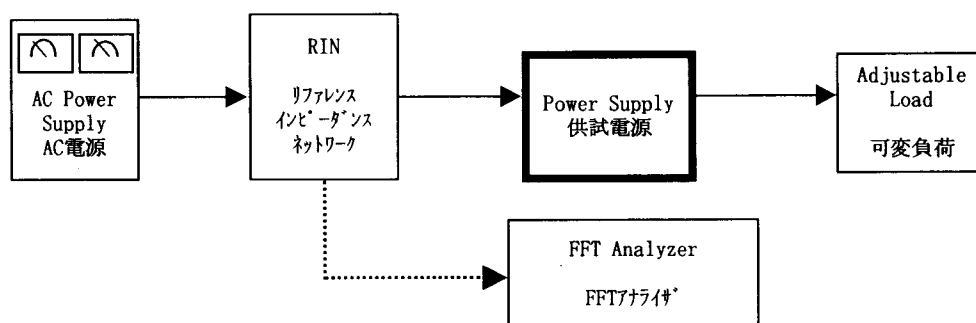


Figure E