



TEST DATA OF LDA75F-9

(100V INPUT)

Regulated DC Power Supply

May 22, 2002

Approved by : I. Ushibashi
Design Manager

Prepared by : T. Mizukawa
Design Engineer

コーセル株式会社

COSEL CO., LTD.



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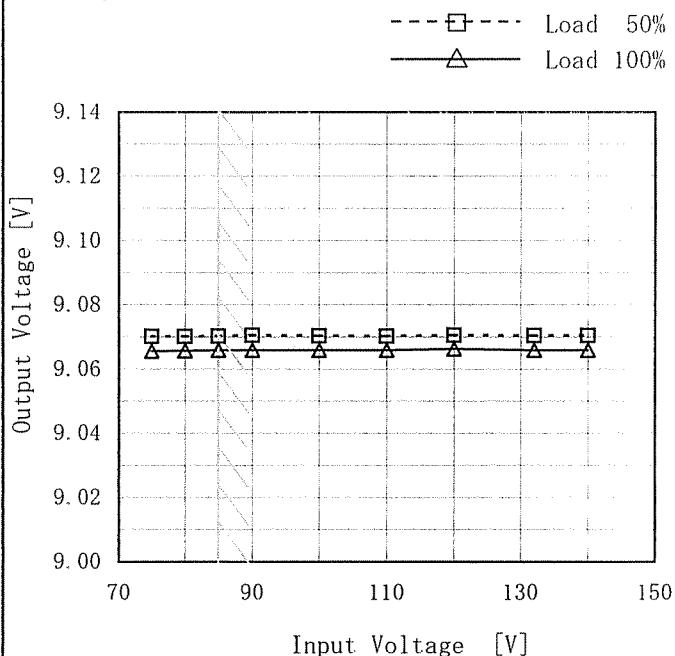
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Model	LDA75F-9
Item	Line Regulation 静的の入力変動
Object	+9V8.5A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



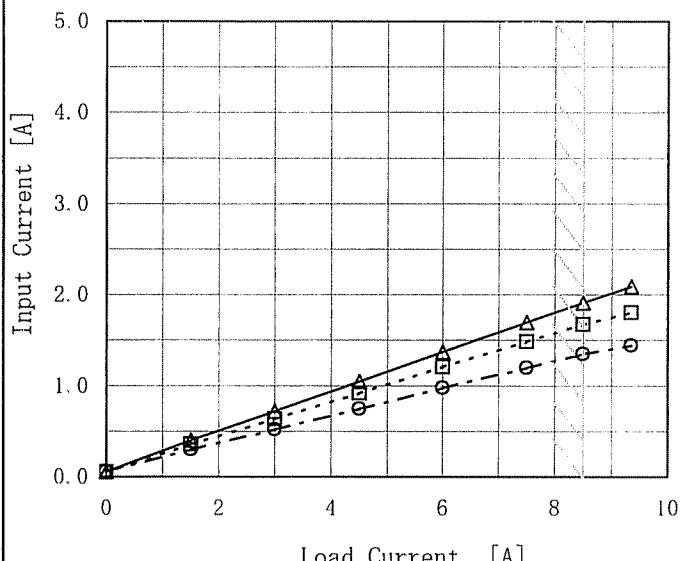
2. Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
75	9.070	9.066
80	9.070	9.066
85	9.070	9.066
90	9.071	9.066
100	9.070	9.066
110	9.070	9.066
120	9.071	9.066
132	9.071	9.066
140	9.071	9.066

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	LDA75F-9																																																					
Item	Input Current (by Load Current) 入力電流 (負荷特性)	Temperature Testing Circuitry	25°C Figure A																																																			
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1. Graph	<p>—△— Input Volt. 85V - - -□--- Input Volt. 100V - - ○--- Input Volt. 132V</p>  <p>The graph shows three curves representing different input voltages. The 85V curve (triangles) has the highest current values, followed by 100V (squares), and 132V (circles). All curves show a linear increase in current with load current, with a slight change in slope around 8A. A diagonal line from approximately (2A, 0.5A) to (9A, 2.2A) indicates the rated load current range.</p>																																																					
2. Values	<table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="3">Input Current [A]</th> </tr> <tr> <th>Input Volt. 85[V]</th> <th>Input Volt. 100[V]</th> <th>Input Volt. 132[V]</th> </tr> </thead> <tbody> <tr> <td>0.00</td> <td>0.053</td> <td>0.054</td> <td>0.056</td> </tr> <tr> <td>1.50</td> <td>0.398</td> <td>0.356</td> <td>0.299</td> </tr> <tr> <td>3.00</td> <td>0.720</td> <td>0.637</td> <td>0.522</td> </tr> <tr> <td>4.50</td> <td>1.046</td> <td>0.922</td> <td>0.748</td> </tr> <tr> <td>6.00</td> <td>1.372</td> <td>1.207</td> <td>0.974</td> </tr> <tr> <td>7.50</td> <td>1.694</td> <td>1.488</td> <td>1.199</td> </tr> <tr> <td>8.50</td> <td>1.910</td> <td>1.675</td> <td>1.348</td> </tr> <tr> <td>9.35</td> <td>2.091</td> <td>1.809</td> <td>1.447</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> </tbody> </table>			Load Current [A]	Input Current [A]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.00	0.053	0.054	0.056	1.50	0.398	0.356	0.299	3.00	0.720	0.637	0.522	4.50	1.046	0.922	0.748	6.00	1.372	1.207	0.974	7.50	1.694	1.488	1.199	8.50	1.910	1.675	1.348	9.35	2.091	1.809	1.447	---	—	—	—	---	—	—	—	---	—	—	—
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Note: Slanted line shows the range of the rated load current.

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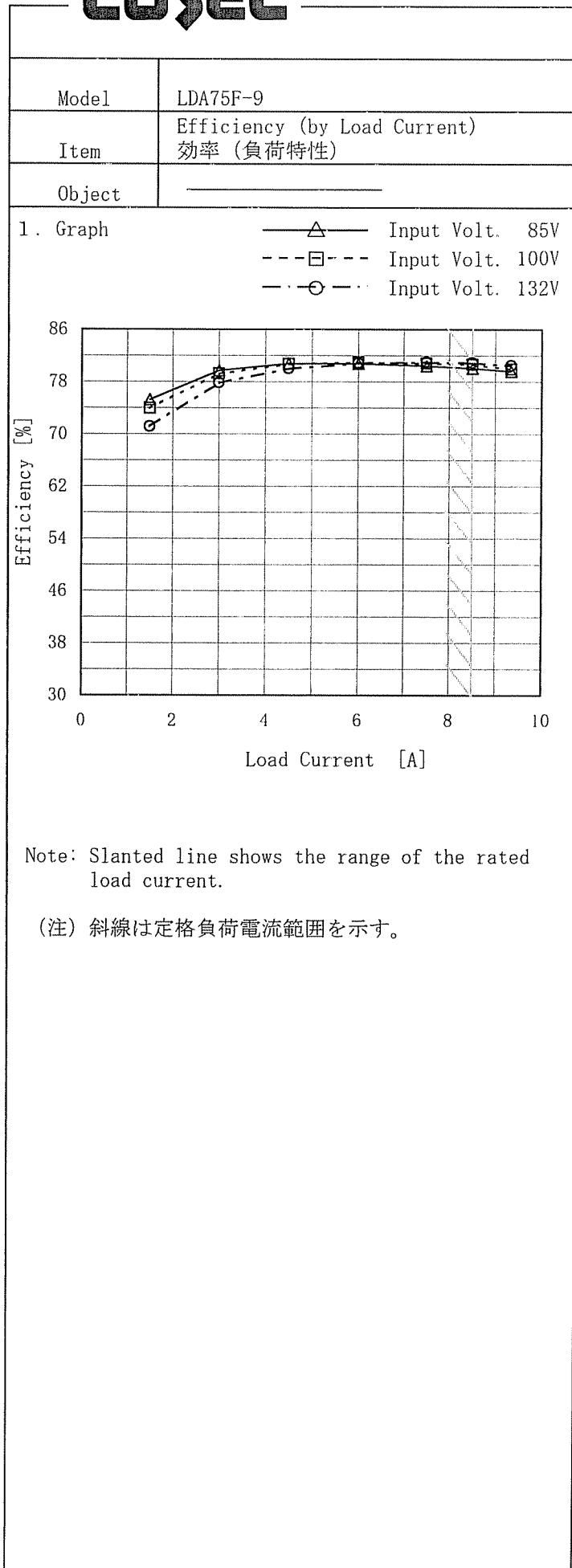
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Note: Slanted line shows the range of the rated load current.

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Model	LDA75F-9																																	
Item	Efficiency (by Input Voltage) 効率 (入力電圧特性)	Temperature 25°C Testing Circuitry Figure A																																
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<p>Efficiency [%]</p> <p>Input Voltage [V]</p> <p>Legend: Load 50% (dashed line with squares), Load 100% (solid line with triangles)</p>																																		
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Temperature 25°C
Testing Circuitry Figure A

2. Values

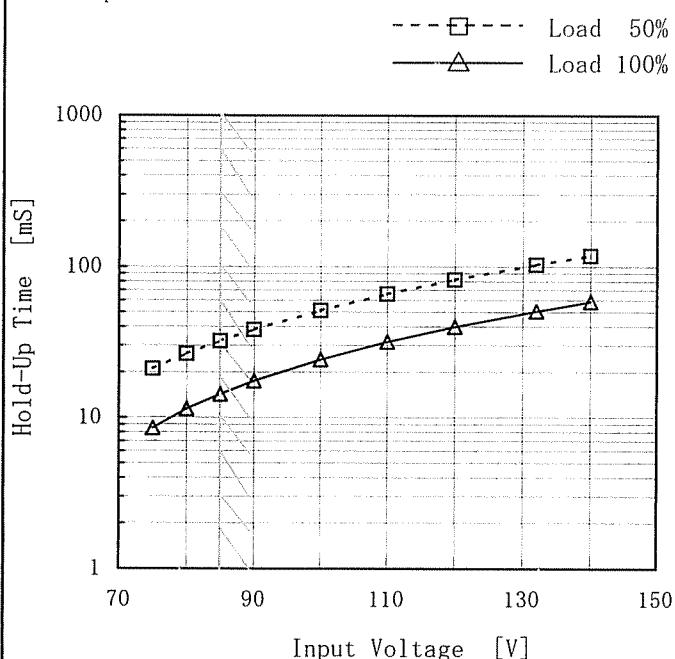
Load Current [A]	Efficiency [%]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.00	—	—	—
1.50	75.2	74.0	71.1
3.00	79.7	79.3	77.8
4.50	80.8	80.7	80.0
6.00	80.8	81.0	80.8
7.50	80.4	80.8	81.0
8.50	80.1	80.6	80.9
9.35	79.6	80.0	80.5
---	—	—	—
---	—	—	—
---	—	—	—

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Model	LDA75F-9
Item	Hold-Up Time 出力保持時間
Object	+9V8.5A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



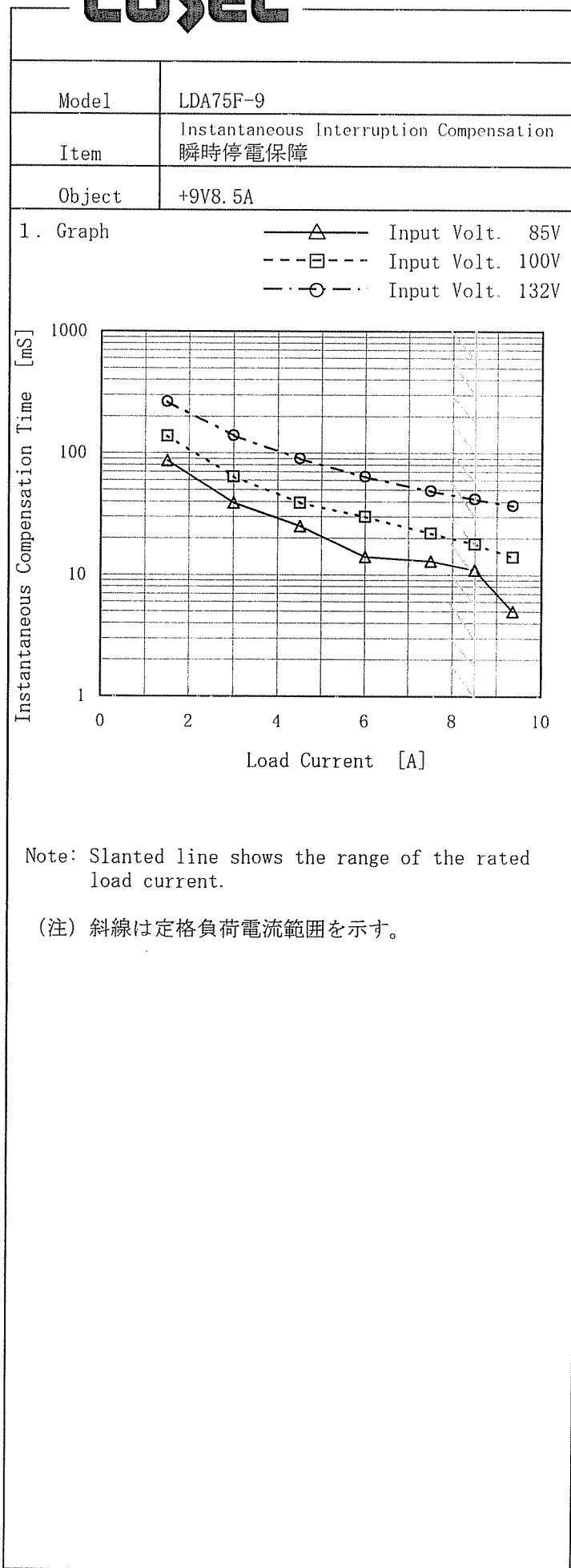
2. Values

Input Voltage [V]	Hold-Up Time [mS]	
	Load 50%	Load 100%
75	21	9
80	27	11
85	32	14
90	38	18
100	51	24
110	66	32
120	82	40
132	103	51
140	118	59

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 input voltage.

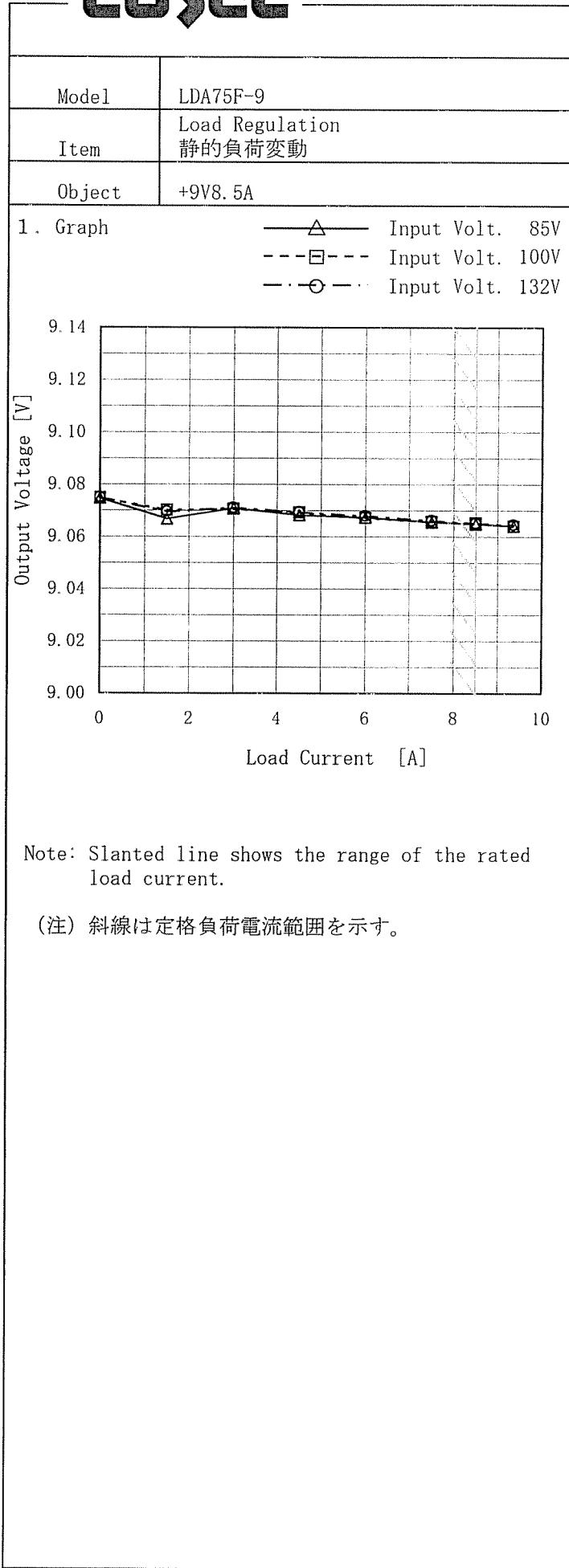
出力保持時間とは、入力電圧断続から出力電圧が定電圧精度の範囲を保持しているところまでの時間。
(注) 斜線は定格入力電圧範囲を示す。

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Temperature 25°C
Testing Circuitry Figure A

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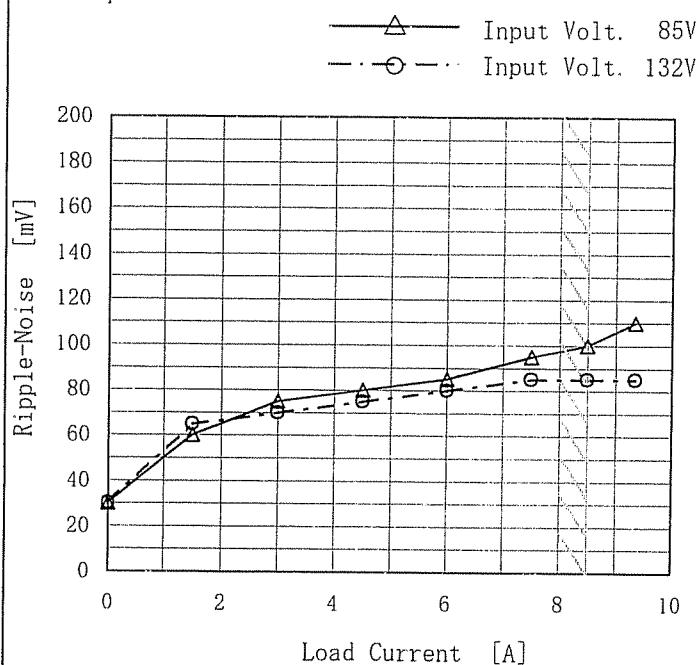
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<p>Ripple Voltage is shown as p-p in the figure below.</p> <p>Note: Slanted line shows the range of the rated load current.</p> <p>リップル電圧は、下図 p-p 値で示される。 (注) 斜線は定格負荷電流範囲を示す。</p> <p>T1: Due to AC Input Line 入力商用周期 T2: Due to Switching スイッチング周期</p>				Fig. Complex Ripple Wave Form 図 リップル波形詳細図																																					

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Model	LDA75F-9
Item	Ripple-Noise リップルノイズ
Object	+9V8.5A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0.00	30	30
1.50	60	65
3.00	75	70
4.50	80	75
6.00	85	80
7.50	95	85
8.50	100	85
9.35	110	85
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Ripple-Noise is shown as p-p in the figure below.
Note: Slanted line shows the range of the rated load current.

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。

T1: Due to AC Input Line
入力商用周期

T2: Due to Switching
スイッチング周期

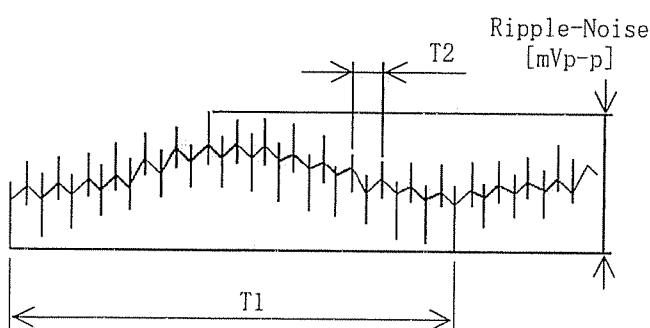


Fig. Complex Ripple Wave Form
図 リップル波形詳細図

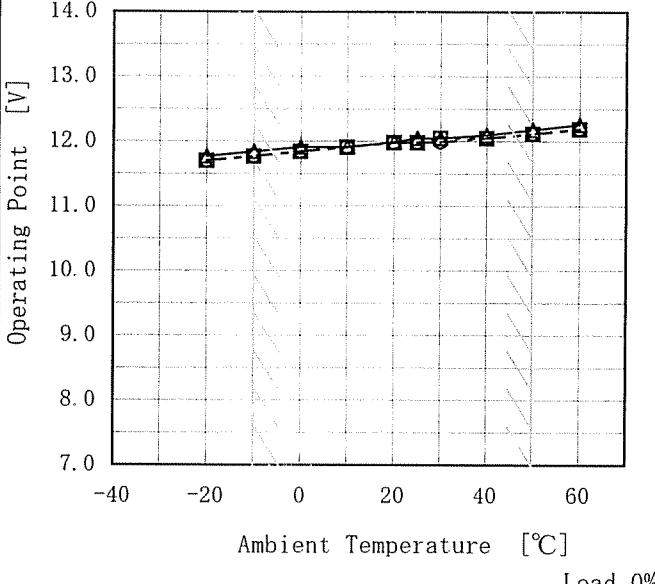
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Model	LDA75F-9	Temperature	25°C																																																							
Item	Overcurrent Protection 過電流保護	Testing Circuitry	Figure A																																																							
Object	+9V8.5A																																																									
1. Graph	<p>— Input Volt. 85V - - - Input Volt. 100V Input Volt. 132V</p>																																																									
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0.900	11.04	10.95	10.79																																																							
0.000	10.67	10.43	9.99																																																							

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。

COSEL

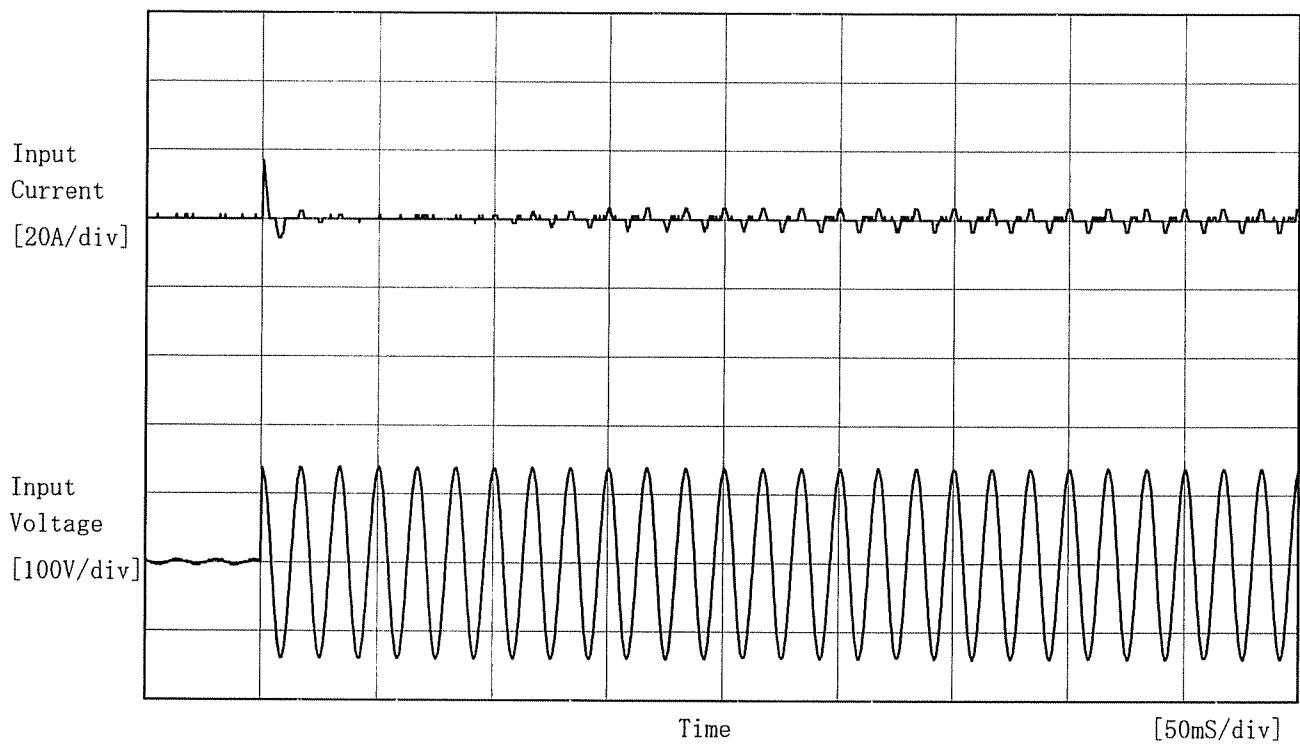
Model	LDA75F-9	Testing Circuitry Figure A		
Item	Overvoltage Protection 過電圧保護			
Object	+9V8.5A			
1. Graph				
		—△— Input Volt. 85V - - -□--- Input Volt. 100V - - ○--- Input Volt. 132V		
				
2. Values				
Ambient Temperature [°C]	Operating Point [V]			
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	
-20	11.77	11.70	11.70	
-10	11.84	11.77	11.77	
0	11.91	11.84	11.84	
10	11.91	11.91	11.91	
20	11.99	11.98	11.98	
25	12.05	11.98	11.98	
30	12.05	12.05	11.99	
40	12.10	12.05	12.05	
50	12.18	12.12	12.12	
60	12.26	12.19	12.19	
--	--	--	--	

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。

COSEL

Model	LDA75F-9
Item	Inrush Current 突入電流
Object	_____

Temperature 25°C
Testing Circuitry Figure A

Input Voltage 100 V

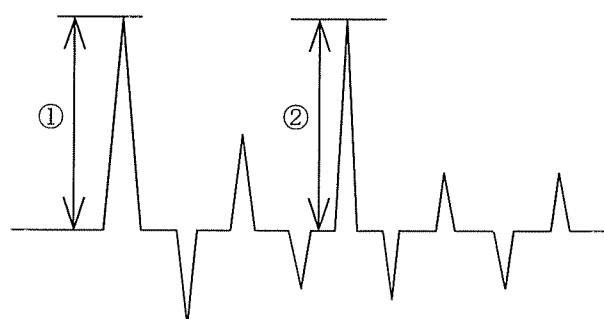
Frequency 60 Hz

Load 100 %

Inrush Current

① 16.8 [A]

② 3.4 [A]

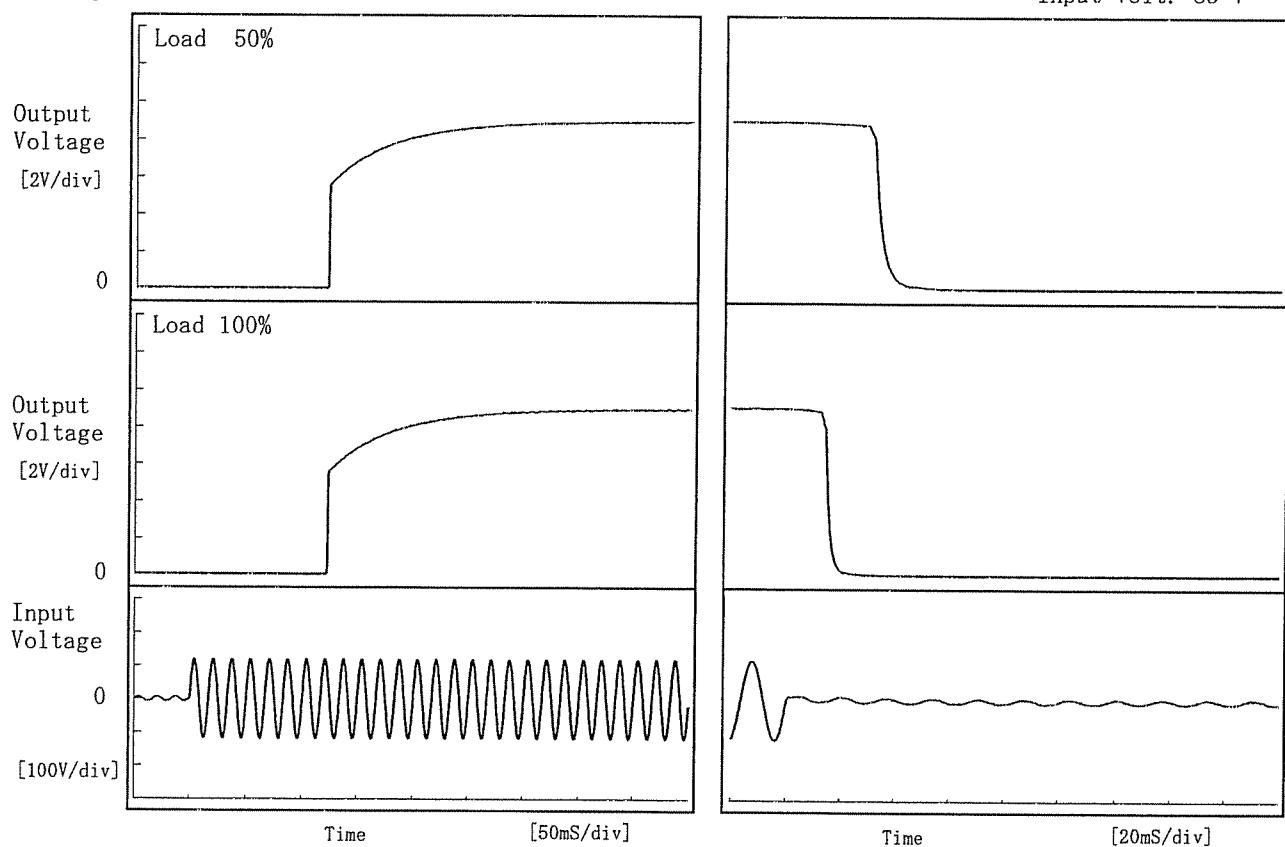


COSEL

Model	LDA75F-9
Item	Rise and Fall Time 立ち上り、立下り時間
Object	+9.0V 8.5A

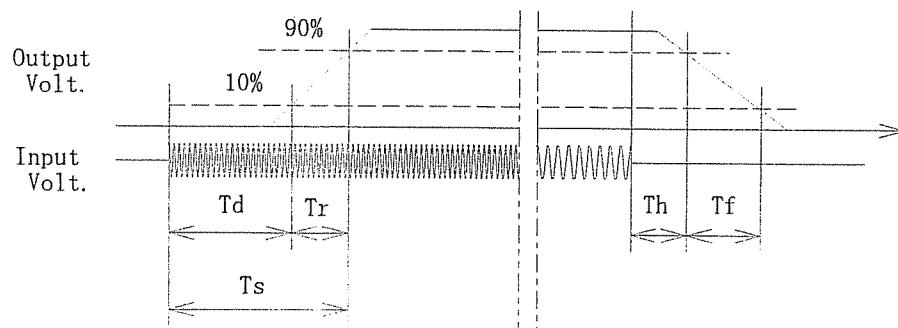
Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Load	Time	T _d	T _r	T _s	T _h	T _f	[mS]
50 %		122.3	82.3	204.5	31.9	6.5	
100 %		122.3	83.3	205.5	14.2	3.9	



COSEL

Model	LDA75F-9	Testing Circuitry Figure A																																																					
Item	Ambient Temperature Drift 周囲温度変動																																																						
Object	+9V8.5A																																																						
1. Graph																																																							
<p>—△— Input Volt. 85V - - -□--- Input Volt. 100V - - -○--- Input Volt. 132V</p> <p>Output Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</p>																																																							
2. Values																																																							
<table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th> <th colspan="3">Output Voltage [V]</th> </tr> <tr> <th>Input Volt. 85[V]</th> <th>Input Volt. 100[V]</th> <th>Input Volt. 132[V]</th> </tr> </thead> <tbody> <tr> <td>-20</td> <td>9.068</td> <td>9.069</td> <td>9.069</td> </tr> <tr> <td>-10</td> <td>9.070</td> <td>9.071</td> <td>9.071</td> </tr> <tr> <td>0</td> <td>9.070</td> <td>9.070</td> <td>9.070</td> </tr> <tr> <td>10</td> <td>9.069</td> <td>9.069</td> <td>9.069</td> </tr> <tr> <td>20</td> <td>9.069</td> <td>9.070</td> <td>9.070</td> </tr> <tr> <td>25</td> <td>9.071</td> <td>9.071</td> <td>9.071</td> </tr> <tr> <td>30</td> <td>9.071</td> <td>9.072</td> <td>9.072</td> </tr> <tr> <td>40</td> <td>9.070</td> <td>9.070</td> <td>9.070</td> </tr> <tr> <td>50</td> <td>9.066</td> <td>9.066</td> <td>9.066</td> </tr> <tr> <td>60</td> <td>9.063</td> <td>9.063</td> <td>9.063</td> </tr> <tr> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </tbody> </table>					Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	-20	9.068	9.069	9.069	-10	9.070	9.071	9.071	0	9.070	9.070	9.070	10	9.069	9.069	9.069	20	9.069	9.070	9.070	25	9.071	9.071	9.071	30	9.071	9.072	9.072	40	9.070	9.070	9.070	50	9.066	9.066	9.066	60	9.063	9.063	9.063	—	—	—	—
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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。

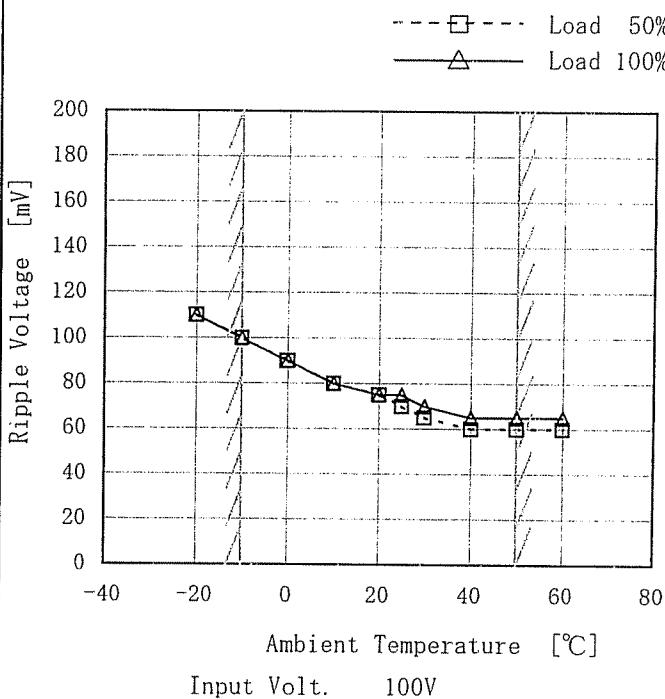
COSEL

Model	LDA75F-9	Testing Circuitry Figure A																																							
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧																																								
Object	+9V8.5A																																								
1. Graph	<p style="text-align: center;">--- □ --- Load 50% — △ — Load 100%</p>																																								
2. Values	<table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th> <th colspan="2">Input Voltage [V]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr> <td>-20</td><td>56</td><td>63</td></tr> <tr> <td>-10</td><td>55</td><td>62</td></tr> <tr> <td>0</td><td>55</td><td>62</td></tr> <tr> <td>10</td><td>55</td><td>62</td></tr> <tr> <td>20</td><td>54</td><td>62</td></tr> <tr> <td>25</td><td>54</td><td>61</td></tr> <tr> <td>30</td><td>54</td><td>61</td></tr> <tr> <td>40</td><td>54</td><td>61</td></tr> <tr> <td>50</td><td>54</td><td>61</td></tr> <tr> <td>60</td><td>53</td><td>61</td></tr> <tr> <td>--</td><td>—</td><td>—</td></tr> </tbody> </table>			Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-20	56	63	-10	55	62	0	55	62	10	55	62	20	54	62	25	54	61	30	54	61	40	54	61	50	54	61	60	53	61	--	—	—
Ambient Temperature [°C]	Input Voltage [V]																																								
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COSEL

Model	LDA75F-9
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)
Object	+9V8.5A

1. Graph



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。

Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-20	110	110
-10	100	100
0	90	90
10	80	80
20	75	75
25	70	75
30	65	70
40	60	65
50	60	65
60	60	65
—	—	—

COSSEL

Model	LDA75F-9	Testing Circuitry Figure A
Item	Output Voltage Accuracy 定電圧精度	
Object	+9V 8.5A	

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 ~ 50°C

Input Voltage : 85 ~ 132V

Load Current : 0 ~ 8.5A

* Output Voltage Accuracy = ±(Maximum of Output Voltage - Minimum of Output Voltage) / 2

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

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 ~ 50°C

入力電圧 : 85 ~ 132V

負荷電流 : 0 ~ 8.5A

* 定電圧精度(変動値) = ±(出力電圧の最高値 - 出力電圧の最低値) / 2

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

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	25	132	0	9.080	±8	±0.1
Minimum Voltage	50	132	8.5	9.065		



Model	LDA75F-9	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) DEN-AN	0.14	0.17	0.22
(B) IEC60950	0.14	0.16	0.20

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.

交流入力の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	LDA75F-9	Temperature	25°C
Item	Line Noise Tolerance 入力雑音耐量	Testing Circuitry	Figure C
Object	+9V8.5A		

1. Conditions

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

2. Results

Pulse Width [nS]	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
		POLARITY		
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	LDA75F-9	Temperature	25°C
Item	Conducted Emission 雜音端子電圧	Testing Circuitry	Figure D
Object	_____		

1. Graph

Remarks

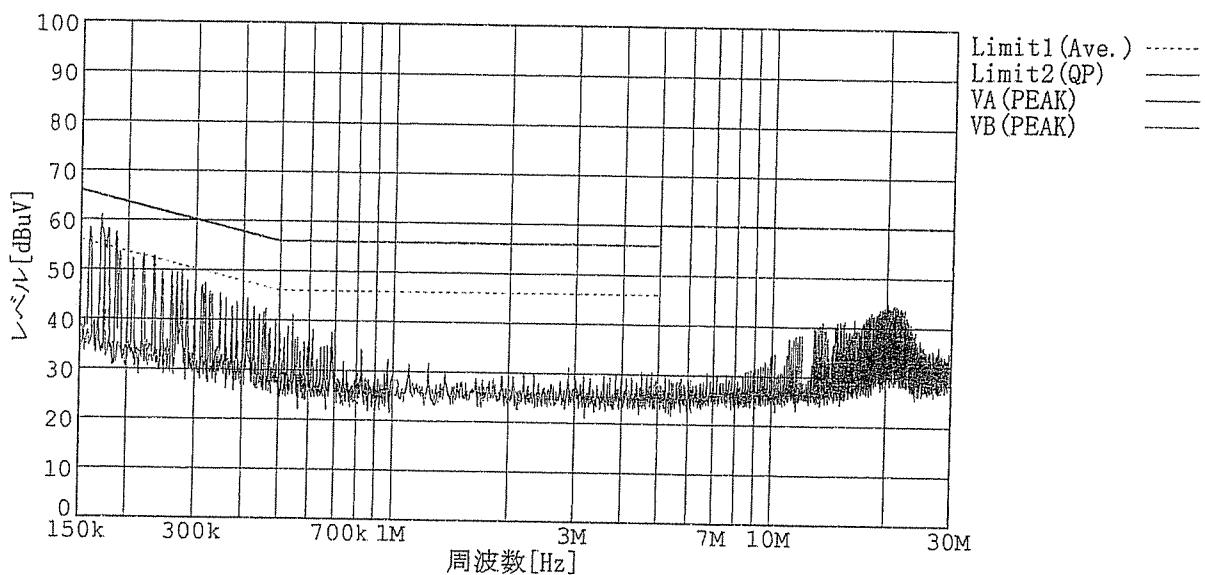
Input Volt. 100V (VCCI Class B)

120V (FCC Class B)

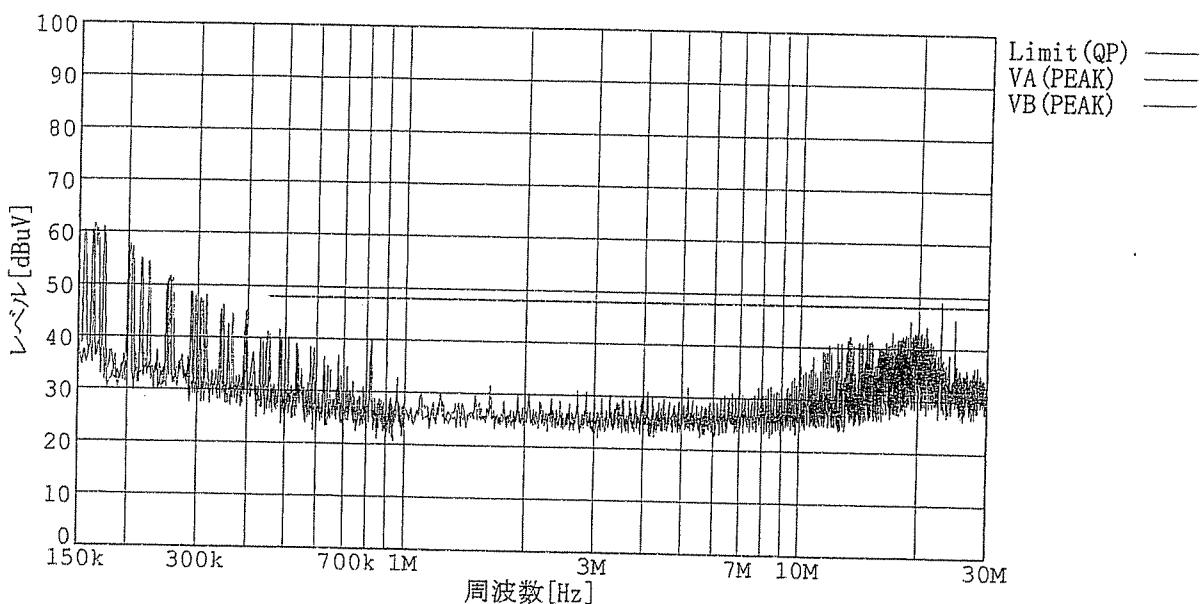
Load 100%

規格 1 : [VCCI] Class B(平均値)

規格 2 : [VCCI] Class B(QP)



規格: [FCC Part15] Class B



COSEL

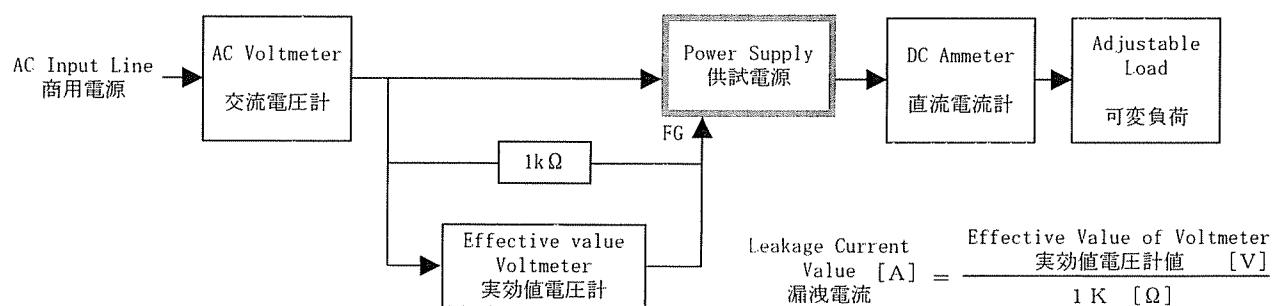
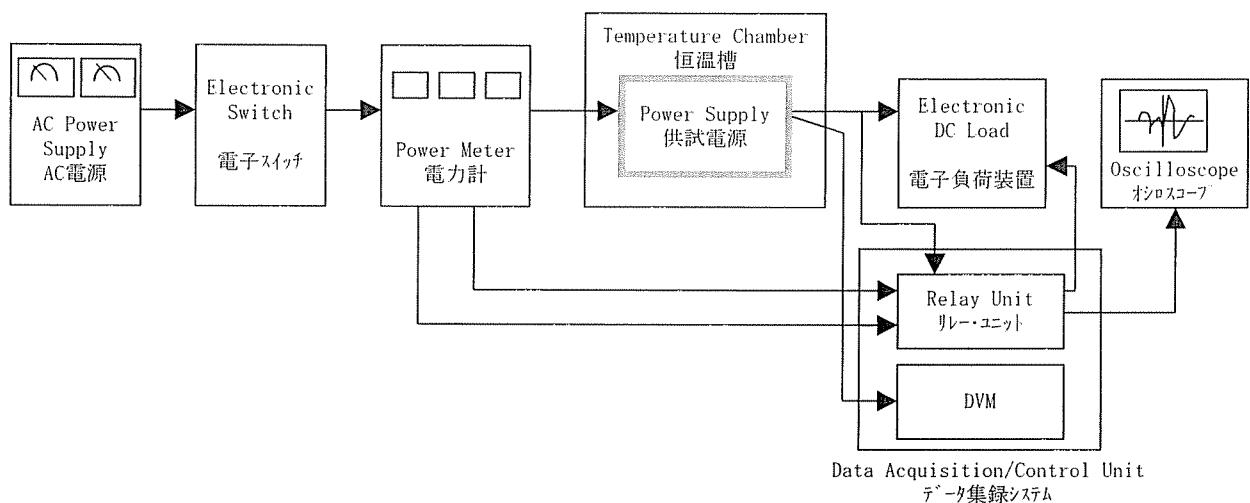


Figure B (DEN-AN)

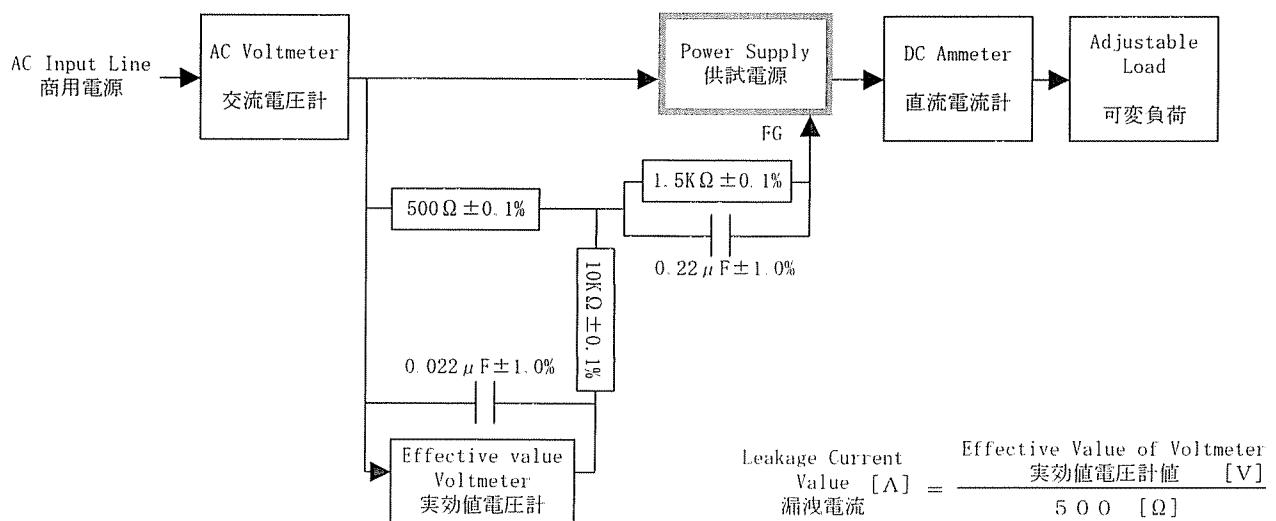


Figure B (IEC60950)

COSEL

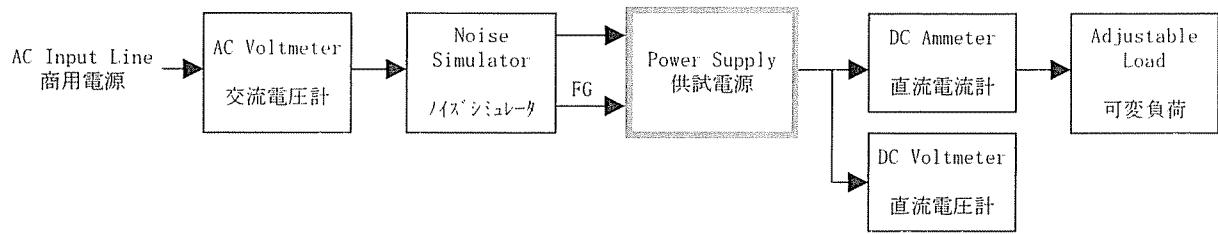


Figure C

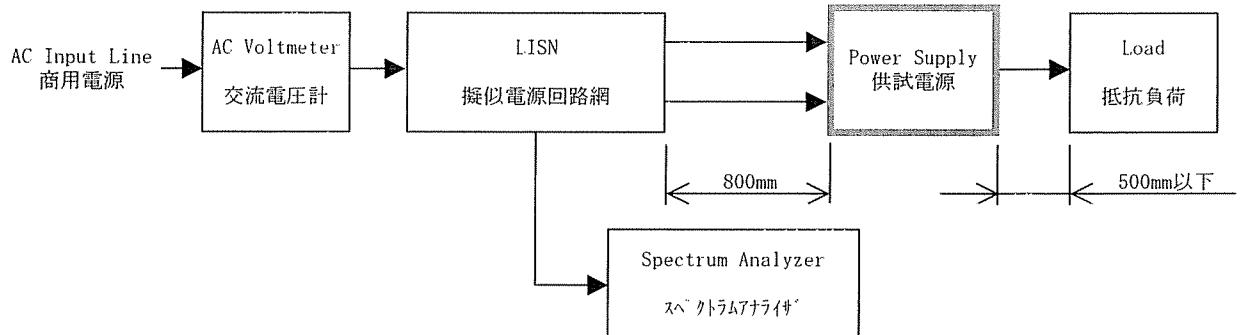


Figure D

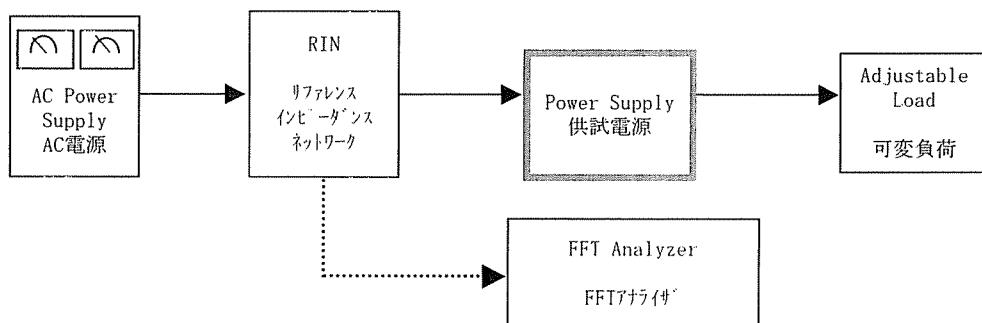


Figure E