



TEST DATA OF ADA750F

ADA750F-36
(100V INPUT)

Regulated DC power supply
Mar. 24, 2003

Approved by : Kuniaki Nagahara Design Manager
Kuniaki Nagahara

Prepared by : Katsumi Ishikawa Design Engineer
Katsumi Ishikawa

INPUT : AC 85~132V

OUTPUT : V1: 36V 16.5A

コーワセル株式会社
COSEL CO.,LTD.



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Model	ADA750F (ADA750F-36)																																	
Item	Line Regulation 静的入力変動	Temperature 25°C Testing Circuitry Figure A																																
Object	V1:+36V16.5A																																	
1. Graph																																		
<p>Output Voltage [V]</p> <p>Input Voltage [V]</p> <p>Legend: ---□--- Load 50% —△— Load 100%</p>																																		
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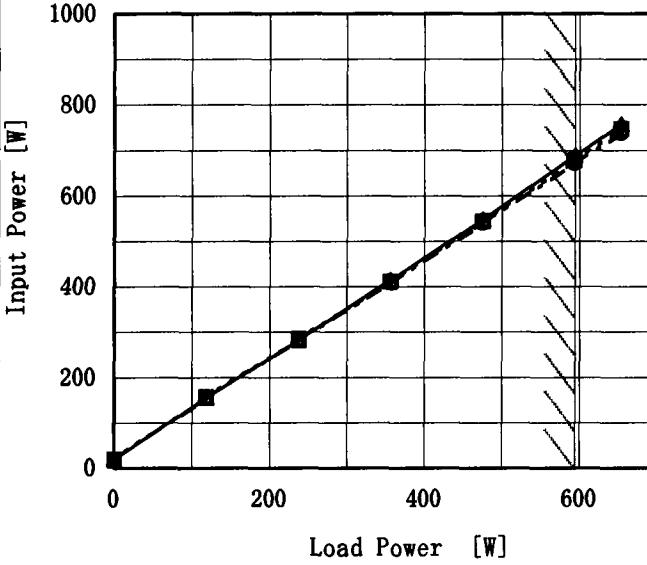
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Note: Slanted line shows the range of the rated load power.

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Model	ADA750F (ADA750F-36)	Temperature	25°C																																														
Item	Input Power (by Load Power) 入力電力 (負荷電力特性)	Testing Circuitry	Figure A																																														
Object	—	—	—																																														
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<p>—△— Input Volt. 85 V - - -□- Input Volt. 100 V - - ○- Input Volt. 132 V</p>  <p>The graph plots Input Power [W] on the Y-axis (0 to 1000) against Load Power [W] on the X-axis (0 to 600). Three curves are shown for input voltages of 85V, 100V, and 132V. A slanted line indicates the rated load power range.</p> <table border="1"> <thead> <tr> <th>Load Power [W]</th> <th>Input Power [W] (85V)</th> <th>Input Power [W] (100V)</th> <th>Input Power [W] (132V)</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>19.4</td><td>19.4</td><td>18.5</td></tr> <tr><td>118.8</td><td>155.5</td><td>156.5</td><td>154.2</td></tr> <tr><td>237.6</td><td>282.5</td><td>284.3</td><td>282.5</td></tr> <tr><td>356.4</td><td>415.0</td><td>411.0</td><td>407.9</td></tr> <tr><td>475.2</td><td>548.0</td><td>544.0</td><td>540.0</td></tr> <tr><td>594.0</td><td>688.0</td><td>678.0</td><td>671.0</td></tr> <tr><td>653.4</td><td>757.0</td><td>747.0</td><td>737.0</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> </tbody> </table>		Load Power [W]	Input Power [W] (85V)	Input Power [W] (100V)	Input Power [W] (132V)	0.0	19.4	19.4	18.5	118.8	155.5	156.5	154.2	237.6	282.5	284.3	282.5	356.4	415.0	411.0	407.9	475.2	548.0	544.0	540.0	594.0	688.0	678.0	671.0	653.4	757.0	747.0	737.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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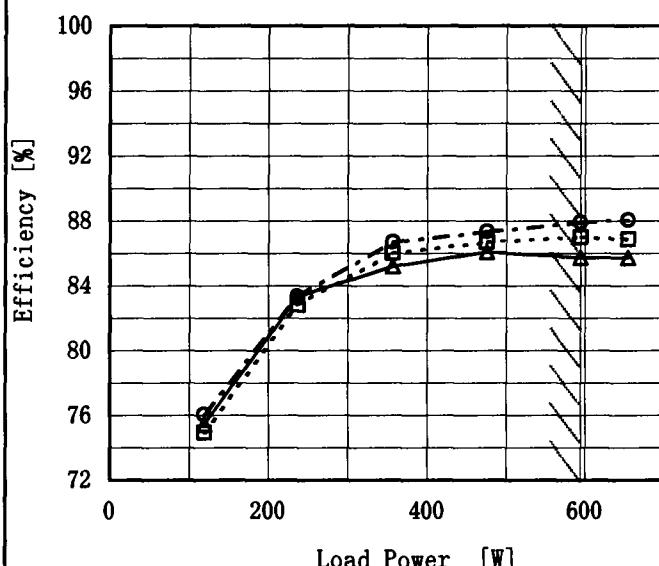
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Item	Efficiency (by Input Voltage) 効率(入力電圧特性)
Object	—
1. Graph	
<p>Efficiency [%]</p> <p>Input Voltage [V]</p> <p>---□--- Load 50%</p> <p>—△— Load 100%</p>	
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 Temperature 25°C
 Testing Circuitry Figure A

2. Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
75	84.6	84.8
80	84.2	85.5
85	84.2	85.9
90	84.7	86.3
100	84.9	87.1
110	84.8	87.5
120	85.6	87.5
132	85.6	87.9
140	85.5	88.1

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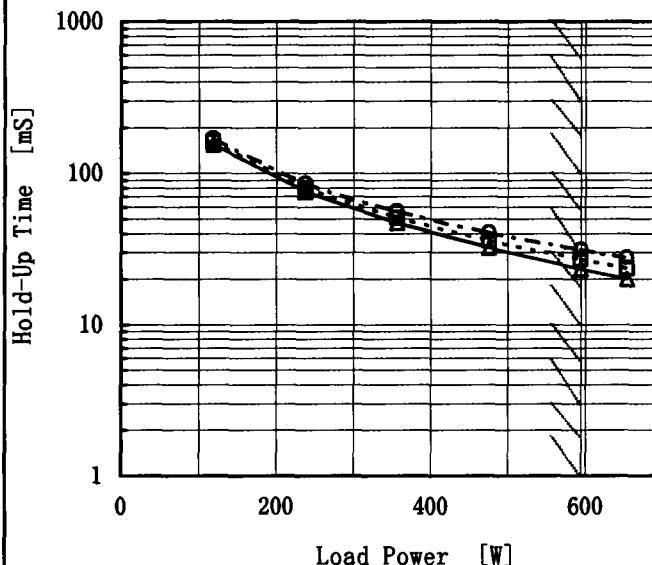
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Note: Slanted line shows the range of the rated load power.

(注) 斜線は定格電力範囲を示す。

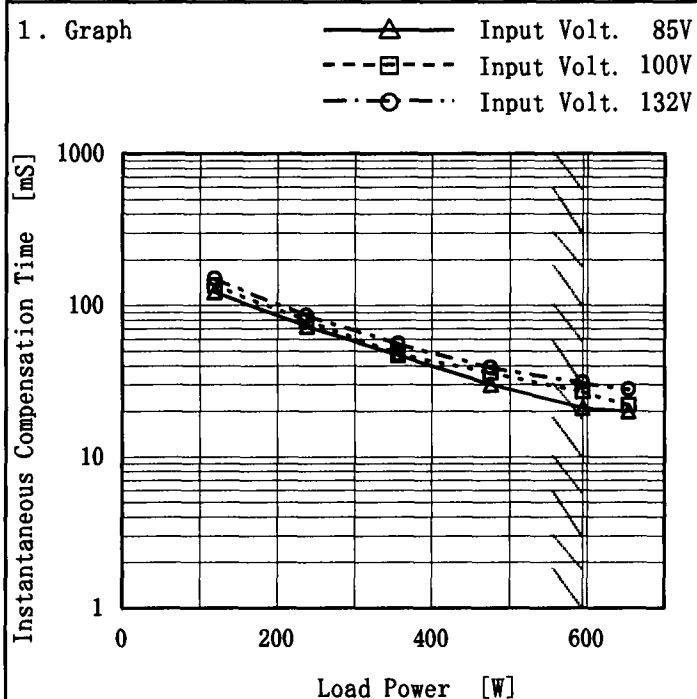
COSEL

Model	ADA750F (ADA750F-36)																																																					
Item	Hold-Up Time (by Load Power)	Temperature	25°C																																																			
出力保持時間 (負荷電力特性)			Testing Circuitry Figure A																																																			
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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. Note: Slanted line shows the range of the rated load power.</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範囲を保持しているところまでの時間。 (注) 斜線は定格電力範囲を示す。</p>																																																						

COSEL

Model	ADA750F (ADA750F-36)
Item	Instantaneous Interruption Compensation (by Load Power) 瞬時停電保障 (負荷電力特性)
Object	—

Temperature 25°C
Testing Circuitry Figure A



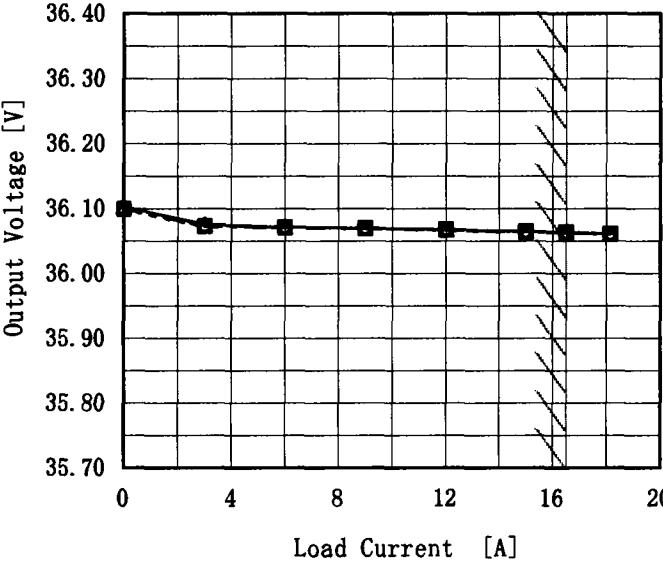
2. Values

Load Power [W]	Time [mS]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.0	—	—	—
118.8	123	136	151
237.6	73	80	86
356.4	47	48	56
475.2	30	36	39
594.0	21	27	31
653.4	20	22	28
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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

(注) 斜線は定格電力範囲を示す。

COSEL

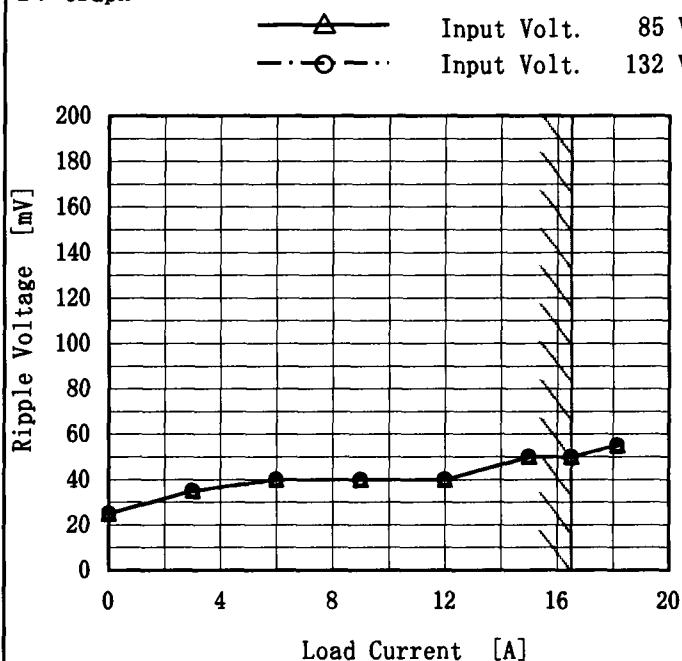
Model	ADA750F (ADA750F-36)																																																					
Item	Load Regulation 静的負荷変動																																																					
Object	V1:+36V16.5A																																																					
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COSEL

Model	ADA750F (ADA750F-36)
Item	Ripple Voltage (by Load Current) リップル電圧 (負荷特性)
Object	V1:+36V16.5A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Load Current [A]	Ripple Output Voltage [mV]	
	Input Volt. 85[V]	Input Volt. 132[V]
0.000	25	25
3.000	35	35
6.000	40	40
9.000	40	40
12.000	40	40
15.000	50	50
16.500	50	50
18.150	55	55
--	--	--
--	--	--
--	--	--

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

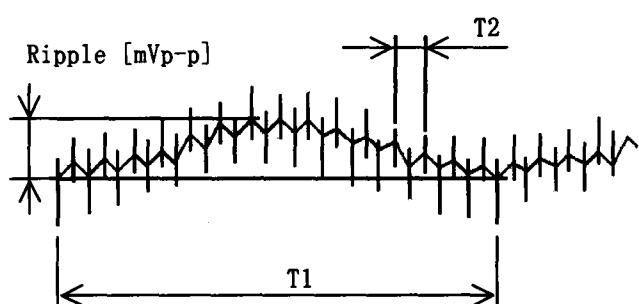


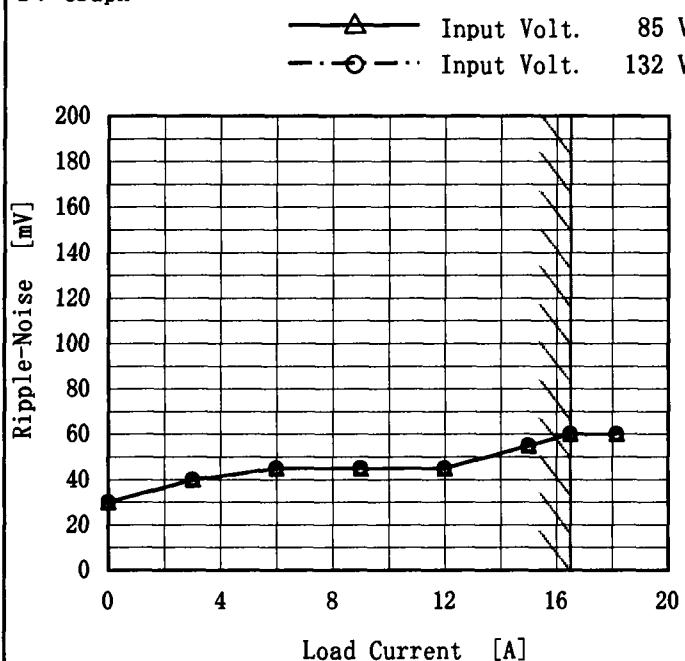
Fig. Complex Ripple Wave Form
図 リップル波形詳細図

COSEL

Model	ADA750F (ADA750F-36)
Item	Ripple-Noise リップルノイズ
Object	V1:+36V16.5A

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]
0.000	30	30
3.000	40	40
6.000	45	45
9.000	45	45
12.000	45	45
15.000	55	55
16.500	60	60
18.150	60	60
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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。

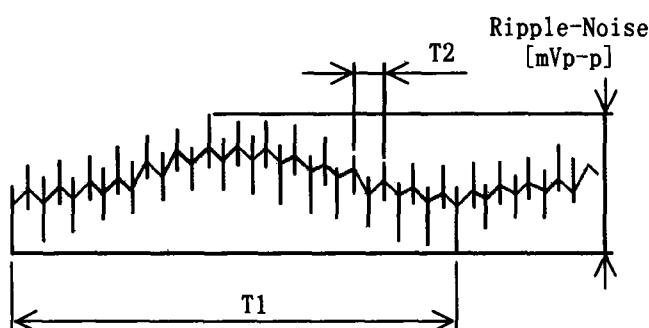
T1: Due to AC Input Line
入力商用周期T2: Due to Switching
スイッチング周期

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

COSEL

Model	ADA750F (ADA750F-36)																																																									
Item	Overcurrent Protection 過電流保護																																																									
Object	V1:+36V16.5A																																																									
1. Graph	<p>Output Voltage [V]</p> <p>Load Current [A]</p> <p>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。</p>																																																									
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COSEL

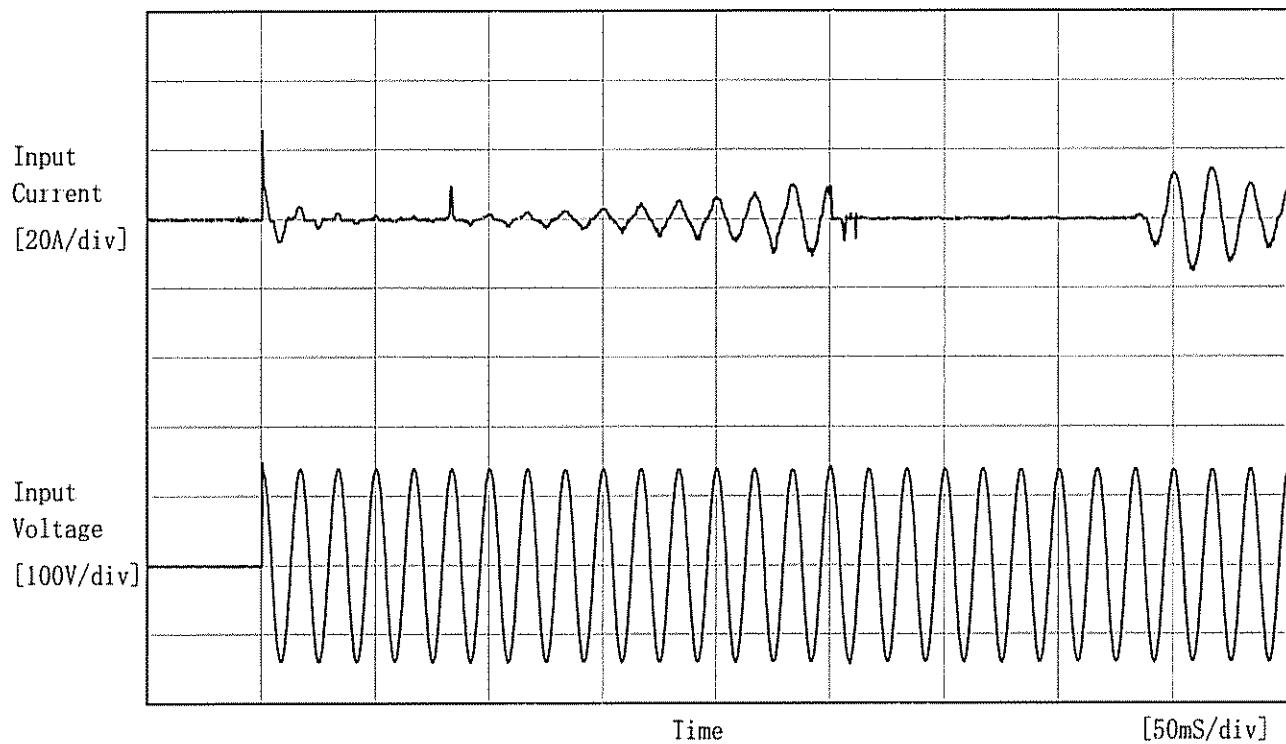
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Note: Slanted line shows the range of the rated ambient temperature.

(注) 斜線は定格周囲温度範囲を示す。

COSEL

Model	ADA750F (ADA750F-36)	Temperature Testing Circuitry	25°C Figure A
Item	Inrush Current 突入電流		
Object	<hr/>		



Input Voltage 100 V

Frequency 60 Hz

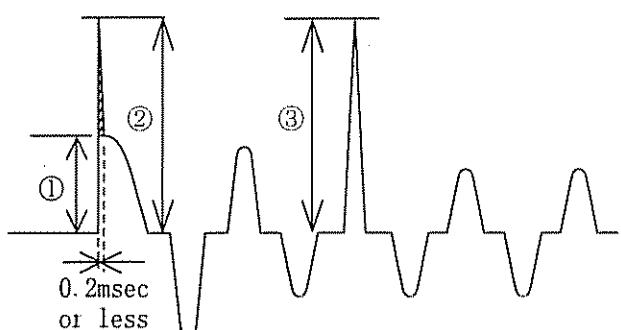
Load 100 %

Inrush Current

① 11.1 [A]

② 25.6 [A] (0.2msec or less)*1

③ 9.3 [A]



*1 The specification of the inrush current (primary surge) means that the surge current to a built-in noise filter (0.2msec or less : waveform ②) is excluded.

本製品の突入電流(1次サージ)の仕様は、内蔵ノイズフィルタへの
サージ電流(0.2msec以下:波形②)を除きます。

COSEL

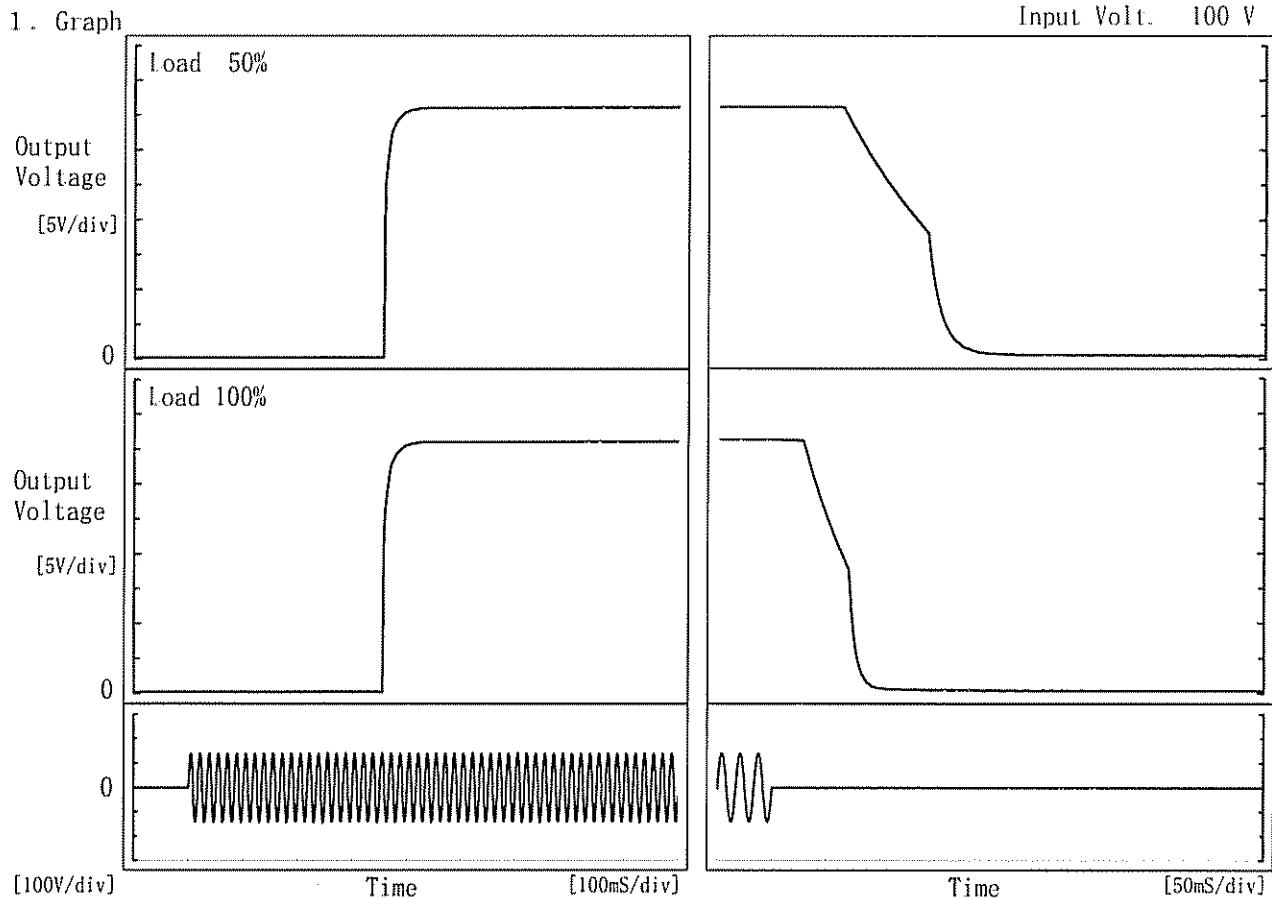
Model ADA750F (ADA750F-36)

Item Rise and Fall Time
立上り、立下り時間

Object V1:+36V16.5A

Temperature 25°C
Testing Circuitry Figure A

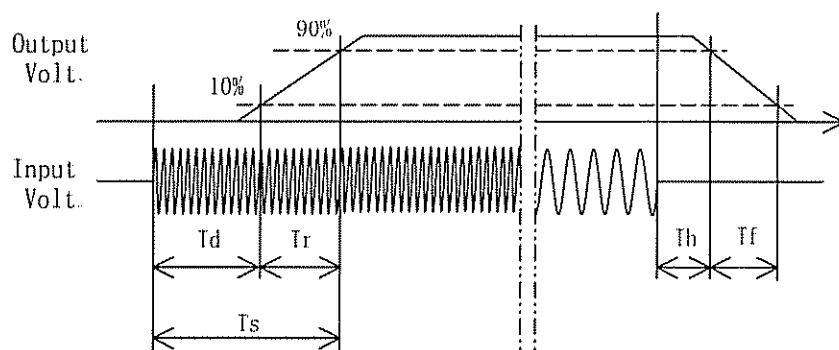
1. Graph



2. Values

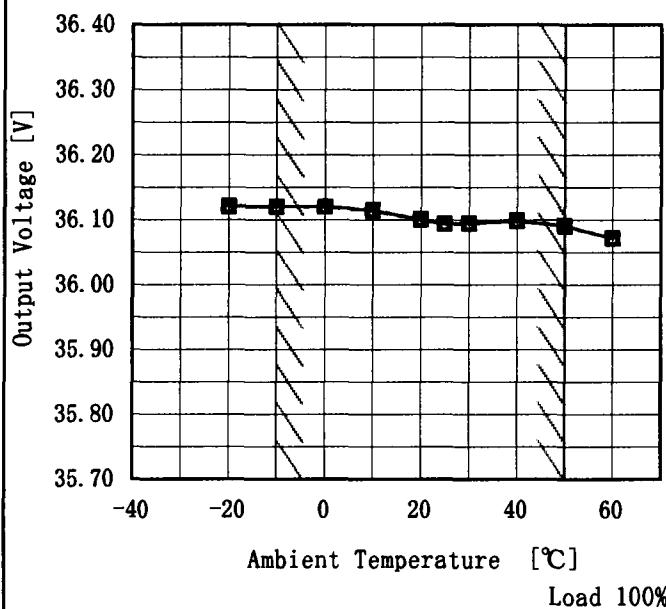
Load	Time	T _d	T _r	T _s	T _h	T _f
50 %		356.0	15.5	371.5	76.3	86.0
100 %		355.5	15.0	370.5	34.8	45.5

[mS]



COSEL

<p>Model ADA750F (ADA750F-36)</p> <p>Item Ambient Temperature Drift 周囲温度変動</p> <p>Object V1:+36V16.5A</p>	Testing Circuitry Figure A		
	2. Values		
Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 85 V	Input Volt. 100 V	Input Volt. 132 V
-20	36.121	36.122	36.121
-10	36.120	36.121	36.120
0	36.120	36.120	36.121
10	36.114	36.115	36.115
20	36.101	36.101	36.101
25	36.094	36.094	36.094
30	36.095	36.095	36.095
40	36.098	36.099	36.099
50	36.091	36.092	36.092
60	36.072	36.072	36.072
--	--	--	--



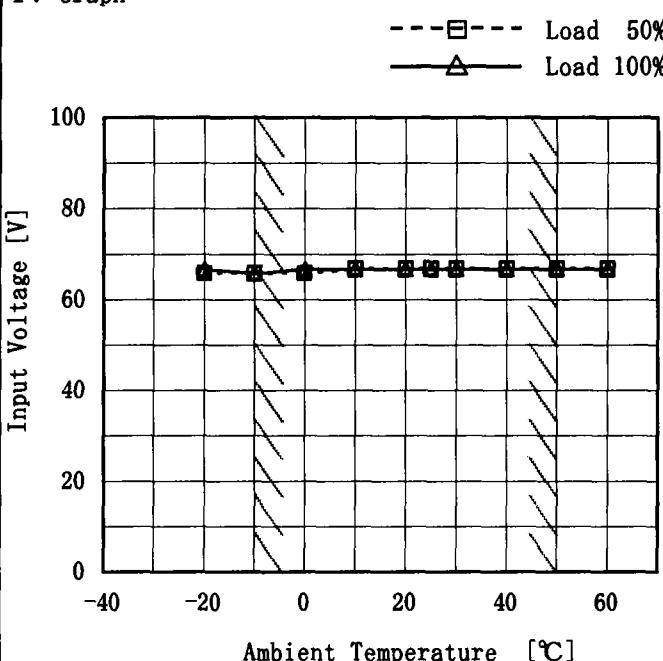
Note: Slanted line shows the range of the rated ambient temperature.

(注) 斜線は定格周囲温度範囲を示す。

COSEL

Model	ADA750F (ADA750F-36)
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	V1:+36V16.5A

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

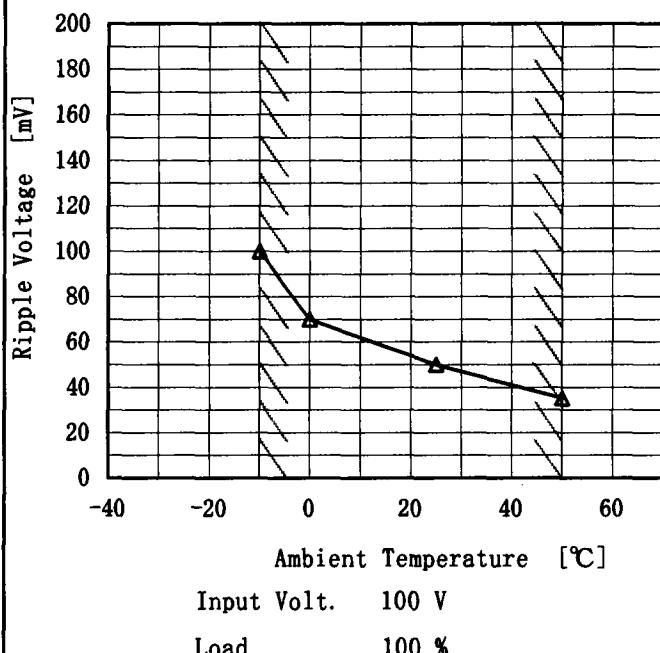
2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	66	67
-10	66	66
0	66	67
10	67	67
20	67	67
25	67	67
30	67	67
40	67	67
50	67	67
60	67	67
—	—	—

COSEL

Model	ADA750F (ADA750F-36)
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)
Object	V1:+36V16.5A

1. Graph



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

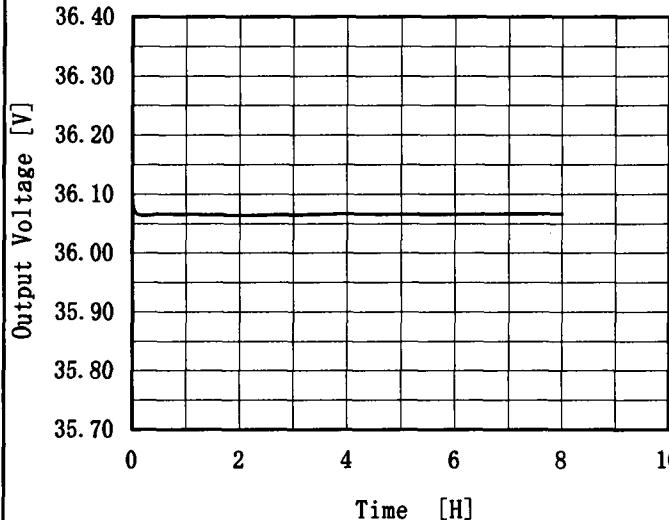
(注) 斜線は定格周囲温度範囲を示す。

Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]
-10	100
0	70
25	50
50	35
—	—
—	—
—	—
—	—
—	—
—	—
—	—
—	—

COSEL

Model	ADA750F (ADA750F-36)	Temperature	25°C																						
Item	Time Lapse Drift 経時ドリフト	Testing Circuitry	Figure A																						
Object	V1:+36V16.5A																								
1. Graph			2. Values																						
 <p>Output Voltage [V]</p> <p>Time [H]</p> <p>Input Volt. 100V</p> <p>Load 100%</p>			<table border="1"> <thead> <tr> <th>Time since start [H]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>36.093</td></tr> <tr><td>0.5</td><td>36.066</td></tr> <tr><td>1.0</td><td>36.066</td></tr> <tr><td>2.0</td><td>36.065</td></tr> <tr><td>3.0</td><td>36.065</td></tr> <tr><td>4.0</td><td>36.067</td></tr> <tr><td>5.0</td><td>36.066</td></tr> <tr><td>6.0</td><td>36.066</td></tr> <tr><td>7.0</td><td>36.066</td></tr> <tr><td>8.0</td><td>36.066</td></tr> </tbody> </table>	Time since start [H]	Output Voltage [V]	0.0	36.093	0.5	36.066	1.0	36.066	2.0	36.065	3.0	36.065	4.0	36.067	5.0	36.066	6.0	36.066	7.0	36.066	8.0	36.066
Time since start [H]	Output Voltage [V]																								
0.0	36.093																								
0.5	36.066																								
1.0	36.066																								
2.0	36.065																								
3.0	36.065																								
4.0	36.067																								
5.0	36.066																								
6.0	36.066																								
7.0	36.066																								
8.0	36.066																								

COSEL

Model	ADA750F (ADA750F-36)	Testing Circuitry Figure A
Item	Output Voltage Accuracy 定電圧精度	
Object	V1:+36V16.5A	

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 ~ 16.5A

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

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

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 ~ 16.5A

* 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	-10	85	0	36.138	±28	±0.1
Minimum Voltage	50	85	20.5	36.082		



Model	ADA750F (ADA750F-36)	Temperature	25°C
Item	Leakage Current 漏洩電流	Testing Circuitry	Figure B
Object	<hr/>		

1. Results

Standards	Leakage Current [mA]		
	Input Volt.	Input Volt.	Input Volt.
85 [V]	100 [V]	132 [V]	
(A) DEN-AN	0.19	0.22	0.28
(B) IEC60950	0.19	0.22	0.28

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 each phases of AC input and by choosing the larger one.

交流入力の各相について測定し、その大きい方を漏洩電流測定値とする。

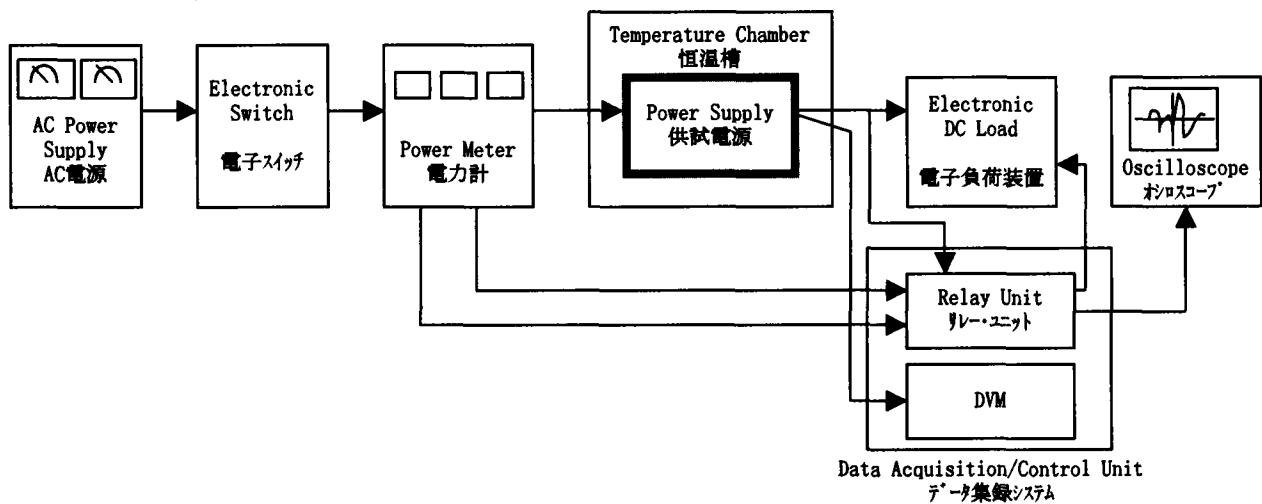


Figure A

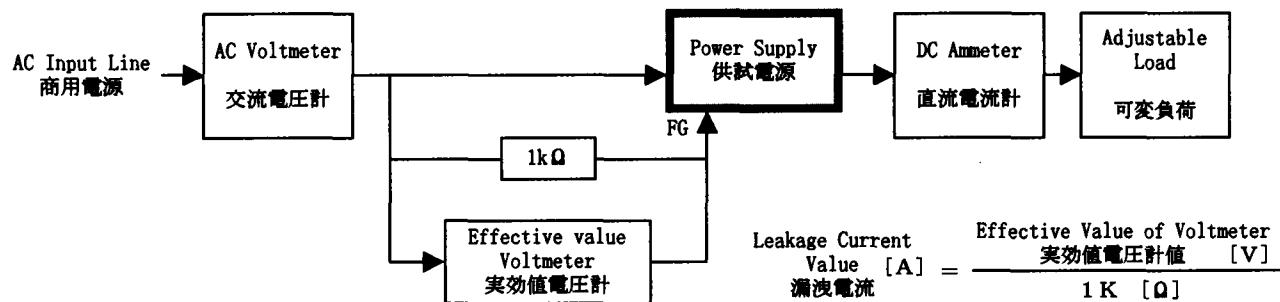


Figure B (DEN-AN)

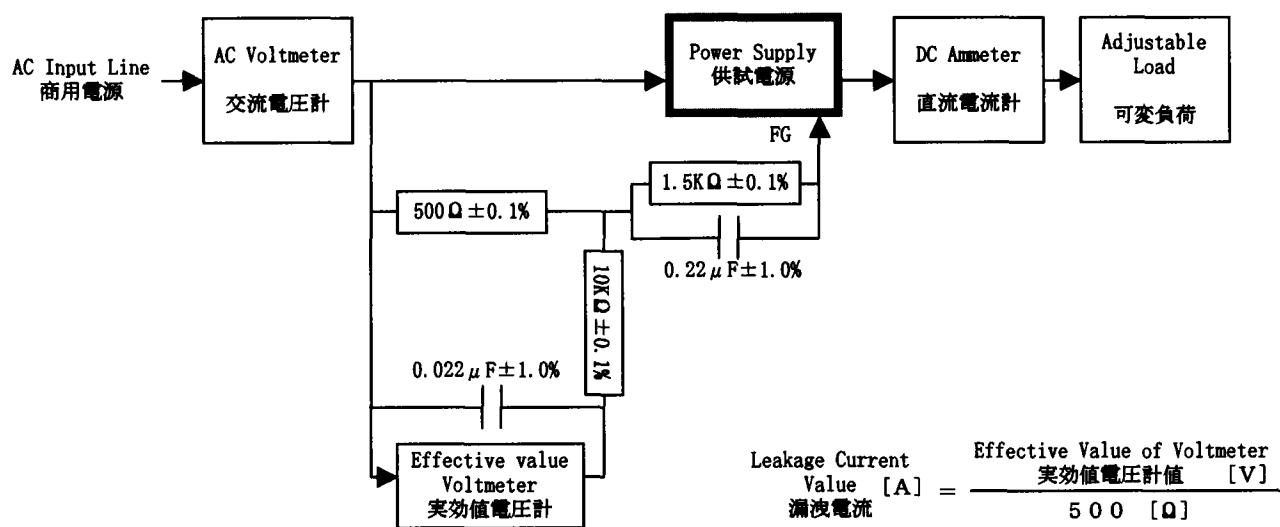


Figure B (IEC60950)