



TEST DATA OF ADA1000F

ADA1000F-30
(100V INPUT)

Regulated DC power supply
Feb. 10, 2003

Approved by : Kuniaki Nagahara
Kuniaki Nagahara Design Manager

Prepared by : Toshihisa Miura
Toshihisa Miura Design Engineer

INPUT : AC 85~132V

OUTPUT : V1:30V 26A

コーセル株式会社
COSEL CO.,LTD.

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Model		ADA1000F (ADA1000F-30)		Temperature		25°C																																	
Item		Line Regulation 静の入力変動		Testing Circuitry		Figure A																																	
Object		V1:+30V26A																																					
1. Graph				2. Values																																			
<p>Legend: ---□--- Load 50% ---△--- Load 100%</p>				<table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th colspan="2">Output Voltage [V]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr><td>75</td><td>30.060</td><td>30.042</td></tr> <tr><td>80</td><td>30.058</td><td>30.042</td></tr> <tr><td>85</td><td>30.057</td><td>30.040</td></tr> <tr><td>90</td><td>30.056</td><td>30.039</td></tr> <tr><td>100</td><td>30.055</td><td>30.039</td></tr> <tr><td>110</td><td>30.054</td><td>30.038</td></tr> <tr><td>120</td><td>30.053</td><td>30.038</td></tr> <tr><td>132</td><td>30.052</td><td>30.037</td></tr> <tr><td>140</td><td>30.051</td><td>30.036</td></tr> </tbody> </table>				Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	75	30.060	30.042	80	30.058	30.042	85	30.057	30.040	90	30.056	30.039	100	30.055	30.039	110	30.054	30.038	120	30.053	30.038	132	30.052	30.037	140	30.051	30.036
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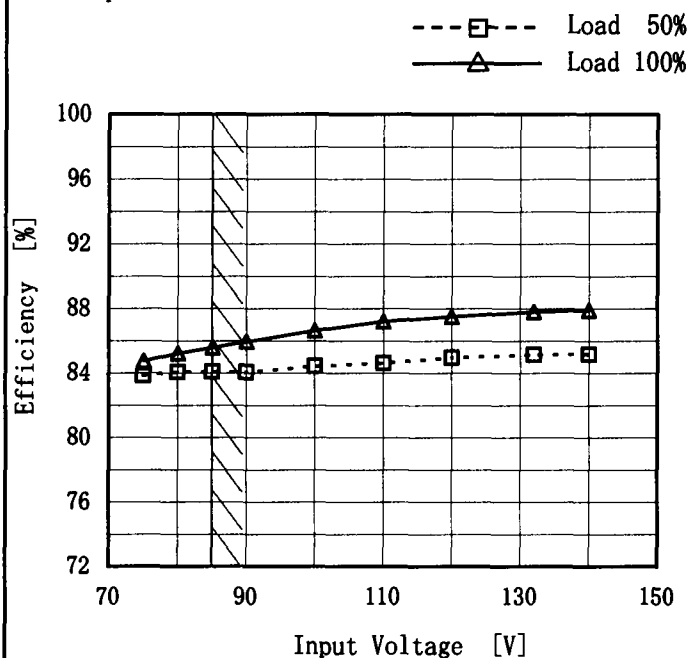
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Model	ADA1000F (ADA1000F-30)
Item	Efficiency (by Input Voltage) 効率 (入力電圧特性)
Object	_____

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	83.8	84.7
80	84.1	85.2
85	84.1	85.6
90	84.1	86.0
100	84.4	86.6
110	84.6	87.2
120	85.0	87.5
132	85.1	87.8
140	85.2	87.9



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Item		Instantaneous Interruption Compensation (by Load Power) 瞬時停電保障 (負荷電力特性)			
Object		_____			
1. Graph			—△— Input Volt. 85V	2. Values	
			- - -□- - - Input Volt. 100V		
			- · - ○ - · - Input Volt. 132V		
Instantaneous Compensation Time [mS]					
	Load Power [W]				
	<p>Note: Slanted line shows the range of the rated load power.</p>				
	<p>(注) 斜線は定格電力範囲を示す。</p>				

Load Power [W]	Time [mS]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0	—	—	—
156	124	144	170
312	55	58	64
468	42	49	52
624	38	39	46
780	33	37	40
858	30	31	37
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—



Model		ADA1000F (ADA1000F-30)		Temperature 25°C																																																				
Item		Load Regulation 静的負荷変動		Testing Circuitry Figure A																																																				
Object		V1:+30V26A																																																						
1. Graph		—△— Input Volt. 85 V - - - □ - - - Input Volt. 100 V ···○··· Input Volt. 132 V		2. Values																																																				
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<p>Model ADA1000F (ADA1000F-30)</p>		<p>Temperature 25°C</p>																																							
<p>Item Ripple Voltage (by Load Current) リップル電圧 (負荷特性)</p>		<p>Testing Circuitry Figure A</p>																																							
<p>Object V1:+30V26A</p>																																									
<p>1. Graph</p> <p> —△— Input Volt. 85 V - - ○ - - - Input Volt. 132 V </p> <p>Ripple Voltage is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p> <p>リップル電圧は、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> <p>Fig. Complex Ripple Wave Form 図 リップル波形詳細図</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="2">Ripple Output Voltage [mV]</th> </tr> <tr> <th>Input Volt. 85[V]</th> <th>Input Volt. 132[V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>15</td><td>15</td></tr> <tr><td>4.0</td><td>20</td><td>20</td></tr> <tr><td>8.0</td><td>20</td><td>20</td></tr> <tr><td>12.0</td><td>20</td><td>20</td></tr> <tr><td>16.0</td><td>25</td><td>25</td></tr> <tr><td>20.0</td><td>30</td><td>30</td></tr> <tr><td>24.0</td><td>35</td><td>35</td></tr> <tr><td>26.0</td><td>40</td><td>40</td></tr> <tr><td>28.6</td><td>45</td><td>45</td></tr> <tr><td>--</td><td>--</td><td>--</td></tr> <tr><td>--</td><td>--</td><td>--</td></tr> </tbody> </table>		Load Current [A]	Ripple Output Voltage [mV]		Input Volt. 85[V]	Input Volt. 132[V]	0.0	15	15	4.0	20	20	8.0	20	20	12.0	20	20	16.0	25	25	20.0	30	30	24.0	35	35	26.0	40	40	28.6	45	45	--	--	--	--	--	--
Load Current [A]	Ripple Output Voltage [mV]																																								
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Model		ADA1000F (ADA1000F-30)		Temperature		25°C																																							
Item		Ripple-Noise リップルノイズ		Testing Circuitry		Figure A																																							
Object		V1:+30V26A																																											
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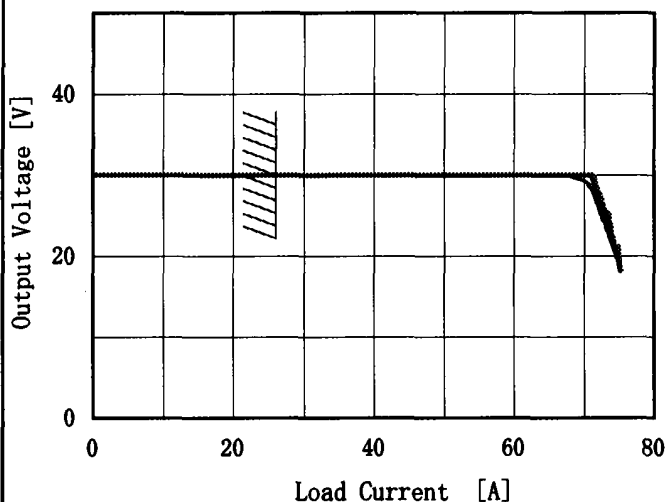


Model	ADA1000F (ADA1000F-30)
Item	Overcurrent Protection 過電流保護
Object	V1:+30V26A

Temperature 25°C
Testing Circuitry Figure A

1. Graph

_____ Input Volt. 85 V
 _____ Input Volt. 100 V
 _____ Input Volt. 132 V



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。

Intermittent operation occurs when the output voltage is from 18V to 0V.

18V~0V間は、間欠モードとなる。

2. Values

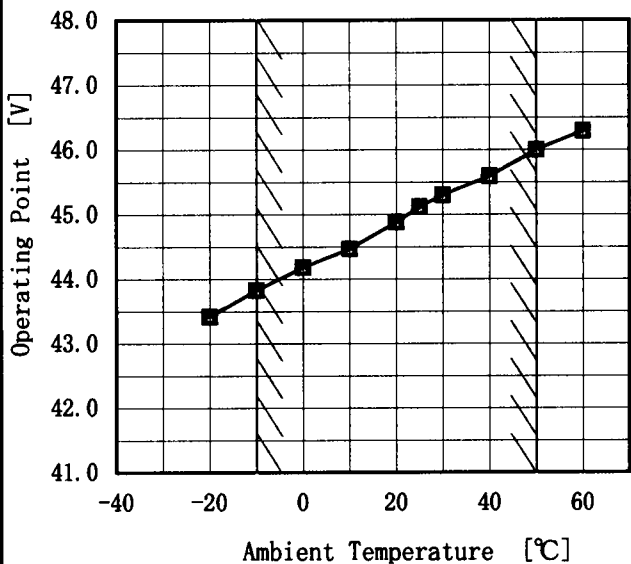
Output Voltage [V]	Load Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
30.0	67.43	70.91	71.27
28.5	71.00	71.45	71.85
27.0	71.62	72.02	72.44
24.0	72.99	73.26	73.65
21.0	74.12	74.31	74.44
18.0	75.13	75.16	75.27
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—



Model	ADA1000F (ADA1000F-30)
Item	Overvoltage Protection 過電圧保護
Object	V1:+30V26A

Testing Circuitry Figure A

1. Graph
- △— Input Volt. 85 V
 - Input Volt. 100 V
 - Input Volt. 132 V



Load 0%

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

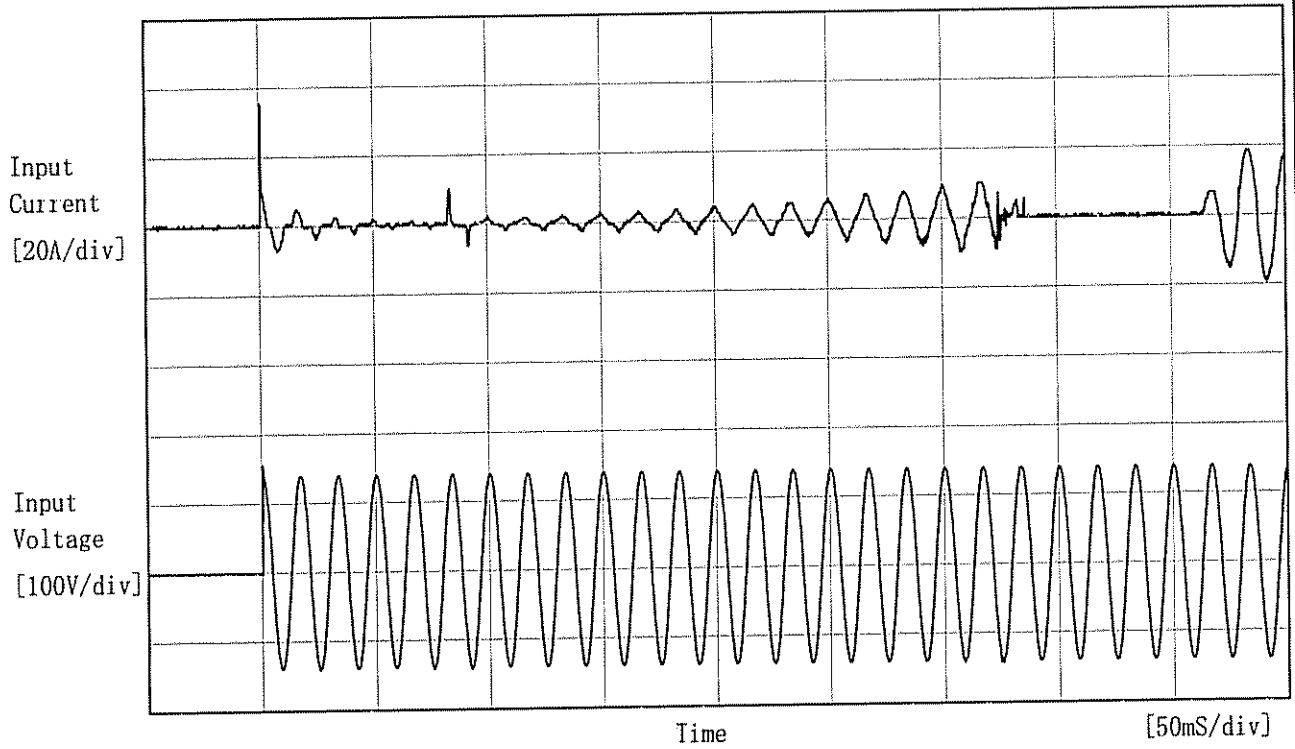
(注) 斜線は定格周囲温度範囲を示す。

2. Values

Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	43.42	43.42	43.43
-10	43.83	43.83	43.83
0	44.18	44.18	44.18
10	44.47	44.47	44.47
20	44.88	44.88	44.88
25	45.12	45.12	45.12
30	45.30	45.30	45.30
40	45.59	45.59	45.59
50	46.00	46.00	46.00
60	46.29	46.29	46.29
—	—	—	—

COSEL

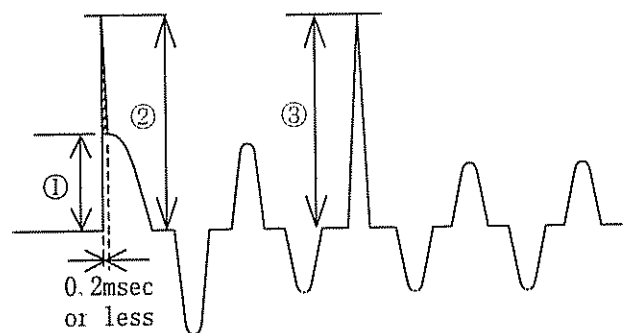
Model	ADA1000F (ADA1000F-30)	Temperature	25°C
Item	Inrush Current 突入電流	Testing Circuitry	Figure A
Object	_____		



Input Voltage 100 V
 Frequency 60 Hz
 Load 100 %

Inrush Current

- ① 10.8 [A]
- ② 35.4 [A] (0.2msec or less)*1
- ③ 10.2 [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.

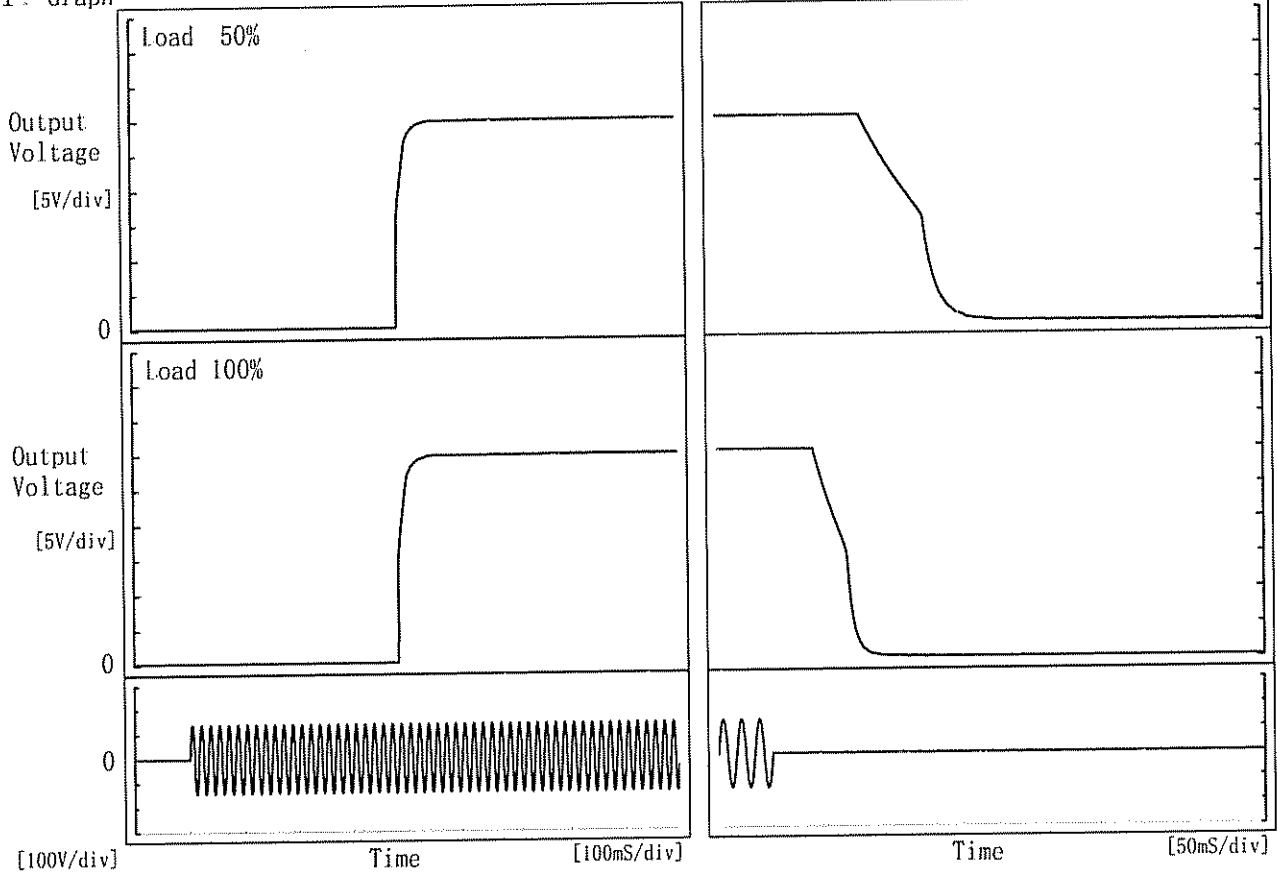
本製品の突入電流(1次サージ)の仕様は、内蔵ノイズフィルタ部へのサージ電流(0.2msec以下:波形②)を除きます。



Model	ADA1000F (ADA1000F-30)	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	VI:+30V26A		

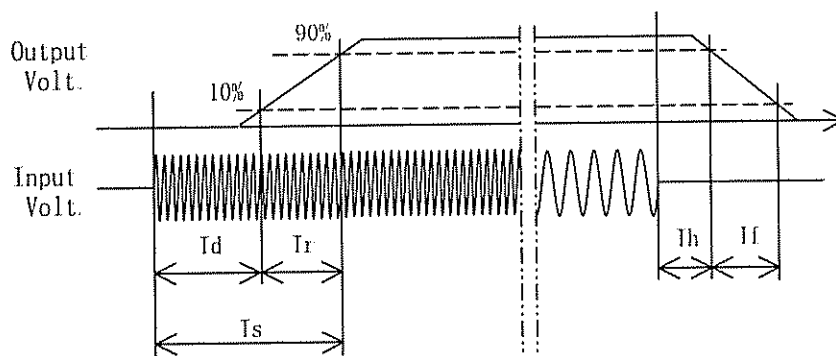
1. Graph

Input Volt. 100 V



2. Values

		[mS]				
Load	Time	T _d	T _r	T _s	T _h	T _f
	50 %		385.0	18.5	403.5	91.3
100 %		384.5	18.5	403.0	43.0	36.0

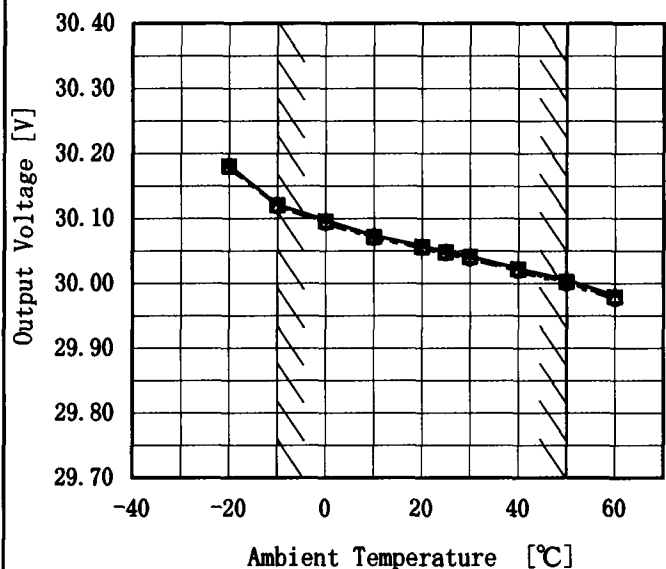




Model	ADA1000F (ADA1000F-30)
Item	Ambient Temperature Drift 周囲温度変動
Object	V1:+30V26A

Testing Circuitry Figure A

1. Graph
- △— Input Volt. 85 V
 - Input Volt. 100 V
 - Input Volt. 132 V



Load 100%

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

(注) 斜線は定格周囲温度範囲を示す。

2. Values

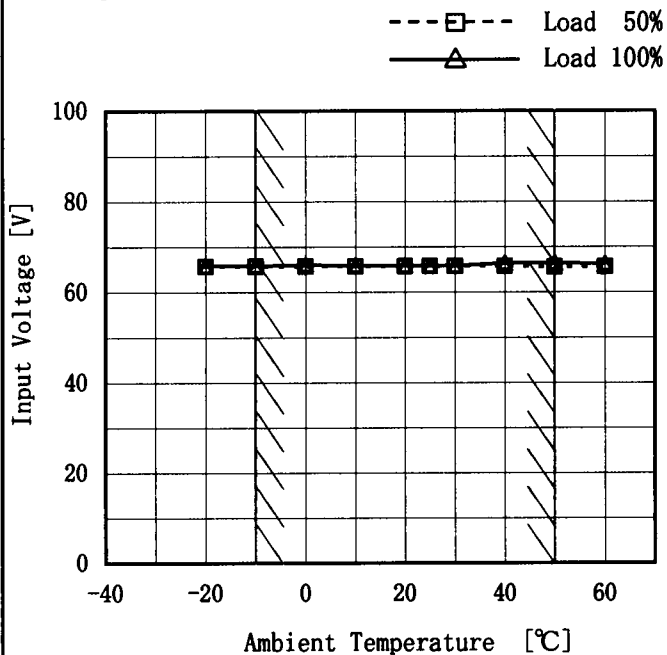
Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	30.182	30.180	30.179
-10	30.121	30.120	30.119
0	30.097	30.095	30.093
10	30.073	30.071	30.070
20	30.057	30.056	30.055
25	30.050	30.048	30.047
30	30.042	30.041	30.039
40	30.023	30.022	30.020
50	30.006	30.002	30.000
60	29.981	29.979	29.977
—	—	—	—



Model	ADA1000F (ADA1000F-30)
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	V1:+30V26A

Testing Circuitry Figure A

1. Graph



2. Values

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

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

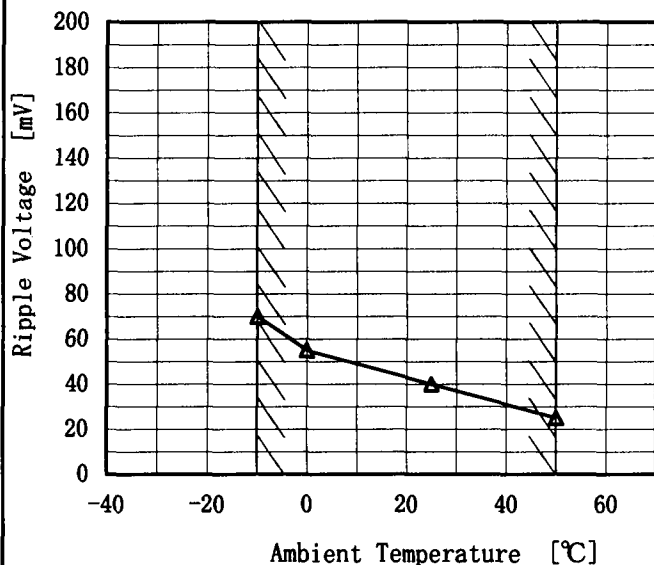
(注) 斜線は定格周囲温度範囲を示す。



Model	ADA1000F (ADA1000F-30)
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)
Object	V1:+30V26A

Testing Circuitry Figure A

1. Graph



Input Volt. 100 V
Load 100 %

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

(注) 斜線は定格周囲温度範囲を示す。

2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]
-10	70
0	55
25	40
50	25
--	--
--	--
--	--
--	--
--	--
--	--
--	--



COSEL																								
Model	ADA1000F (ADA1000F-30)																							
Item	Time Lapse Drift 経時ドリフト	Temperature 25°C Testing Circuitry Figure A																						
Object	V1:+30V26A																							
<p>1. Graph</p> <p style="text-align: center;">Time [H]</p> <p>Input Volt. 100V Load 100%</p>		<p>2. Values</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>30.070</td></tr> <tr><td>0.5</td><td>30.027</td></tr> <tr><td>1.0</td><td>30.027</td></tr> <tr><td>2.0</td><td>30.027</td></tr> <tr><td>3.0</td><td>30.029</td></tr> <tr><td>4.0</td><td>30.029</td></tr> <tr><td>5.0</td><td>30.029</td></tr> <tr><td>6.0</td><td>30.029</td></tr> <tr><td>7.0</td><td>30.029</td></tr> <tr><td>8.0</td><td>30.029</td></tr> </tbody> </table>	Time since start [H]	Output Voltage [V]	0.0	30.070	0.5	30.027	1.0	30.027	2.0	30.027	3.0	30.029	4.0	30.029	5.0	30.029	6.0	30.029	7.0	30.029	8.0	30.029
Time since start [H]	Output Voltage [V]																							
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5.0	30.029																							
6.0	30.029																							
7.0	30.029																							
8.0	30.029																							



COSEL		
Model	ADA1000F (ADA1000F-30)	
Item	Output Voltage Accuracy 定電圧精度	Testing Circuitry Figure A
Object	V1:+30V26A	

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 ~ 26A

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

* 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 ~ 26A

* 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	-10	85	0	30.129	±74	±0.2
Minimum Voltage	50	85	26	29.981		

COSEL

Model	ADA1000F (ADA1000F-30)	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	0.16	0.19	0.25
(B) IEC60950	0.16	0.19	0.25

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 240 [V]	Input Volt. 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。

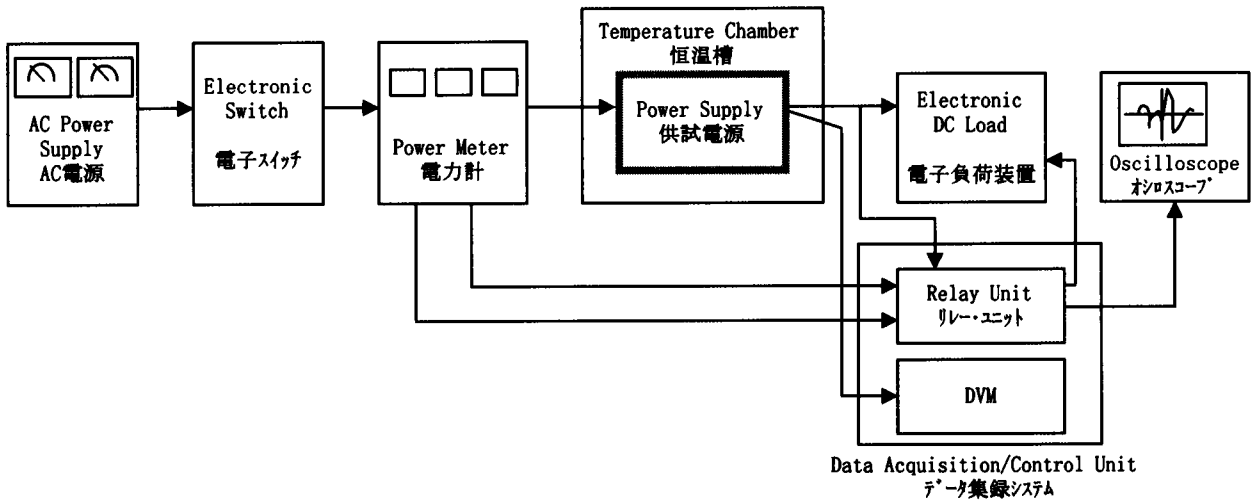


Figure A

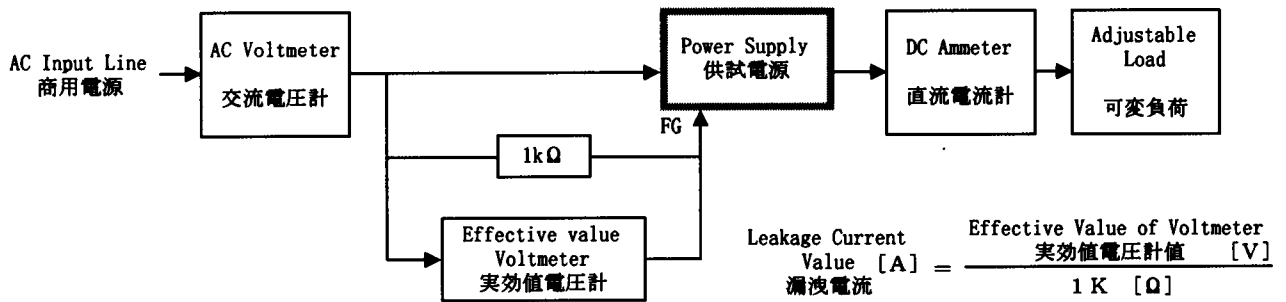


Figure B (DEN-AN)

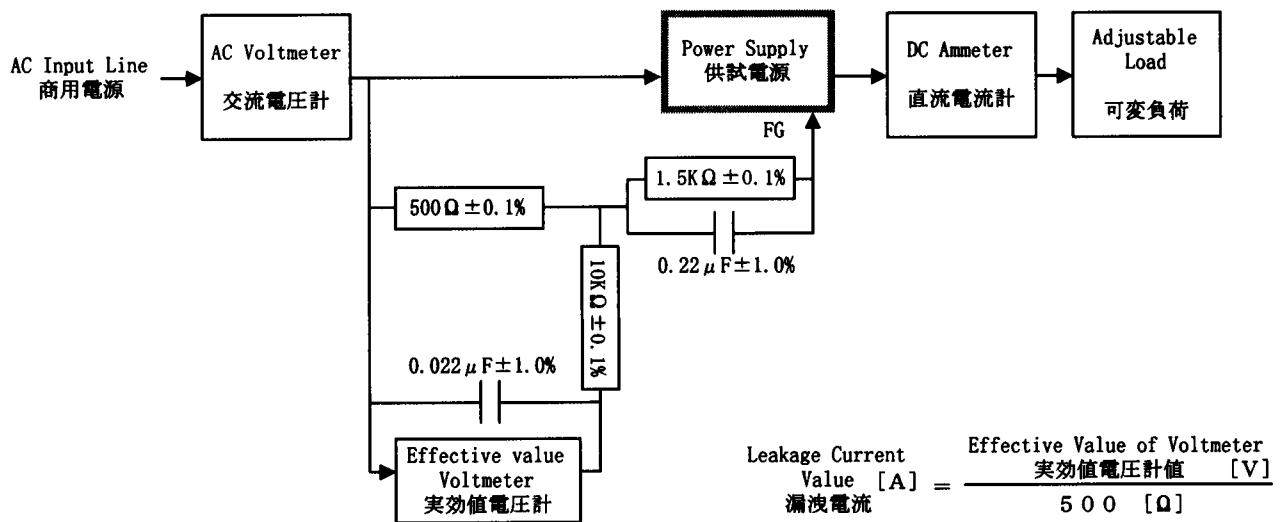


Figure B (IEC60950)