

**TEST DATA OF ADA750F**ADA750F-24  
(100V INPUT)Regulated DC power supply  
Jan. 21, 2003Approved by : Kuniaki Nagahara  
Kuniaki Nagahara Design ManagerPrepared by : Katsumi Ishikawa  
Katsumi Ishikawa Design Engineer

INPUT : AC 85~132V

OUTPUT : V1: 24V 25A

**コーセル株式会社**  
**COSEL CO.,LTD.**

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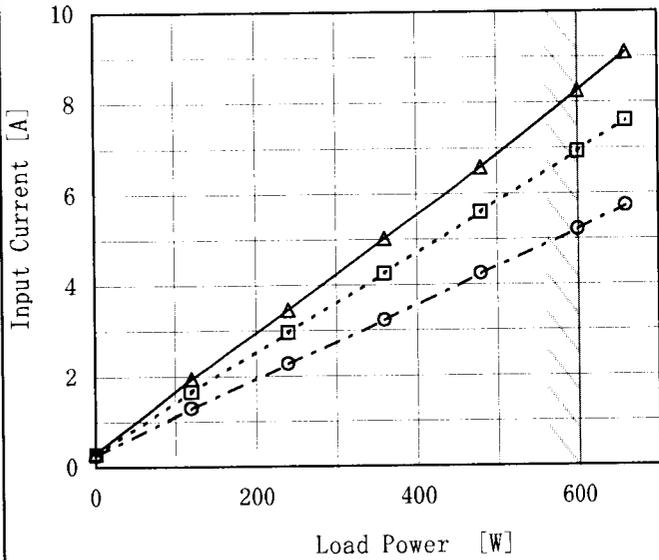
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Item		Line Regulation 静的入力変動																																	
Object		V1:+24V25A																																	
1. Graph		2. Values																																	
<p>---□--- Load 50%</p> <p>—△— Load 100%</p> <p>Output Voltage [V]</p> <p>Input Voltage [V]</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>23.969</td><td>23.947</td></tr> <tr><td>80</td><td>23.968</td><td>23.948</td></tr> <tr><td>85</td><td>23.968</td><td>23.949</td></tr> <tr><td>90</td><td>23.968</td><td>23.949</td></tr> <tr><td>100</td><td>23.967</td><td>23.949</td></tr> <tr><td>110</td><td>23.967</td><td>23.949</td></tr> <tr><td>120</td><td>23.967</td><td>23.949</td></tr> <tr><td>132</td><td>23.967</td><td>23.950</td></tr> <tr><td>140</td><td>23.967</td><td>23.952</td></tr> </tbody> </table>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	75	23.969	23.947	80	23.968	23.948	85	23.968	23.949	90	23.968	23.949	100	23.967	23.949	110	23.967	23.949	120	23.967	23.949	132	23.967	23.950	140	23.967	23.952
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<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>																																			

Model	ADA750F (ADA750F-24)	
Item	Input Current (by Load Current) 入力電流 (負荷電力特性)	Temperature 25°C Testing Circuitry Figure A
Object	_____	

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



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

(注) 斜線は定格電力範囲を示す。

2. Values

Load Power [W]	Input Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0	0.300	0.270	0.250
120	1.940	1.660	1.290
240	3.460	2.960	2.270
360	5.020	4.250	3.220
480	6.580	5.600	4.240
600	8.260	6.920	5.210
660	9.100	7.600	5.730
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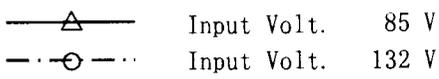
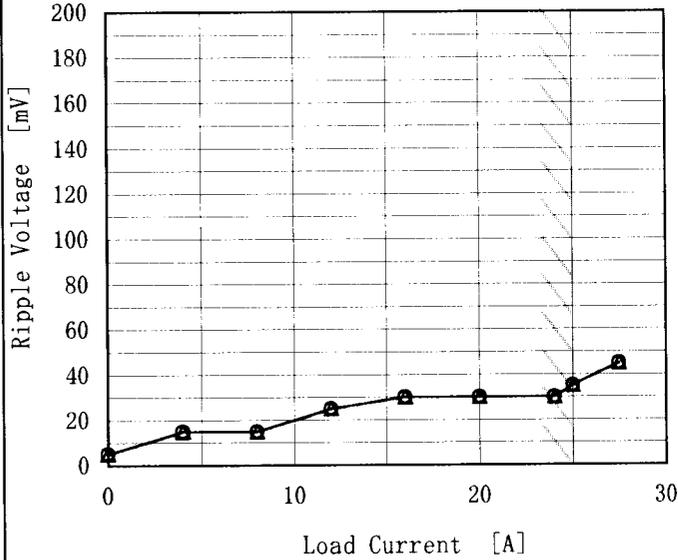
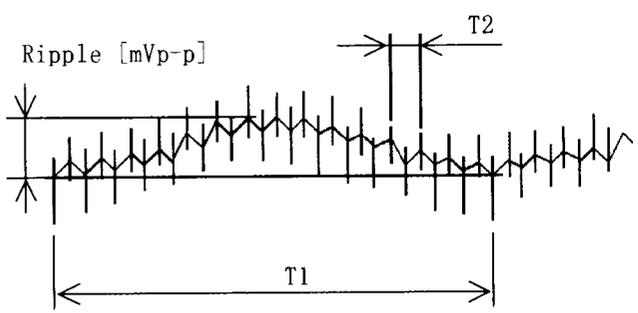


Model		ADA750F (ADA750F-24)		Temperature		25°C																																																				
Item		Instantaneous Interruption Compensation (by Load Power) 瞬時停電保障 (負荷電力特性)		Testing Circuitry		Figure A																																																				
Object		_____																																																								
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<p>Model ADA750F (ADA750F-24)</p> <p>Item Overcurrent Protection 過電流保護</p> <p>Object V1:+24V25A</p>		<p>Temperature 25°C</p> <p>Testing Circuitry Figure A</p>																																																							
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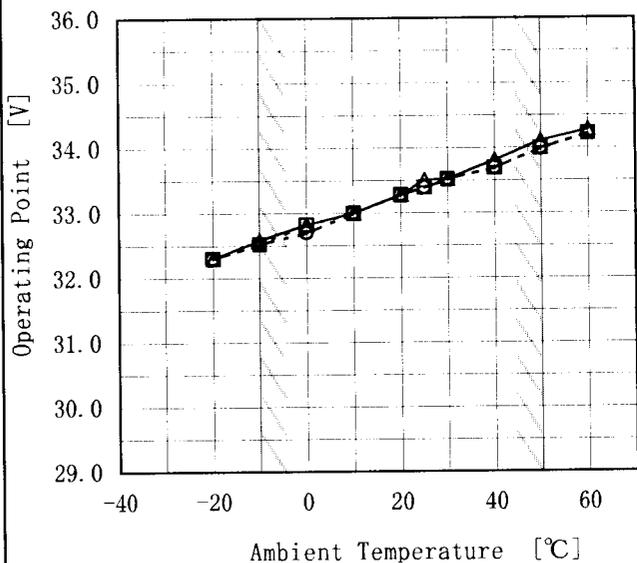


Model	ADA750F (ADA750F-24)
Item	Overvoltage Protection 過電圧保護
Object	V1:+24V25A

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.

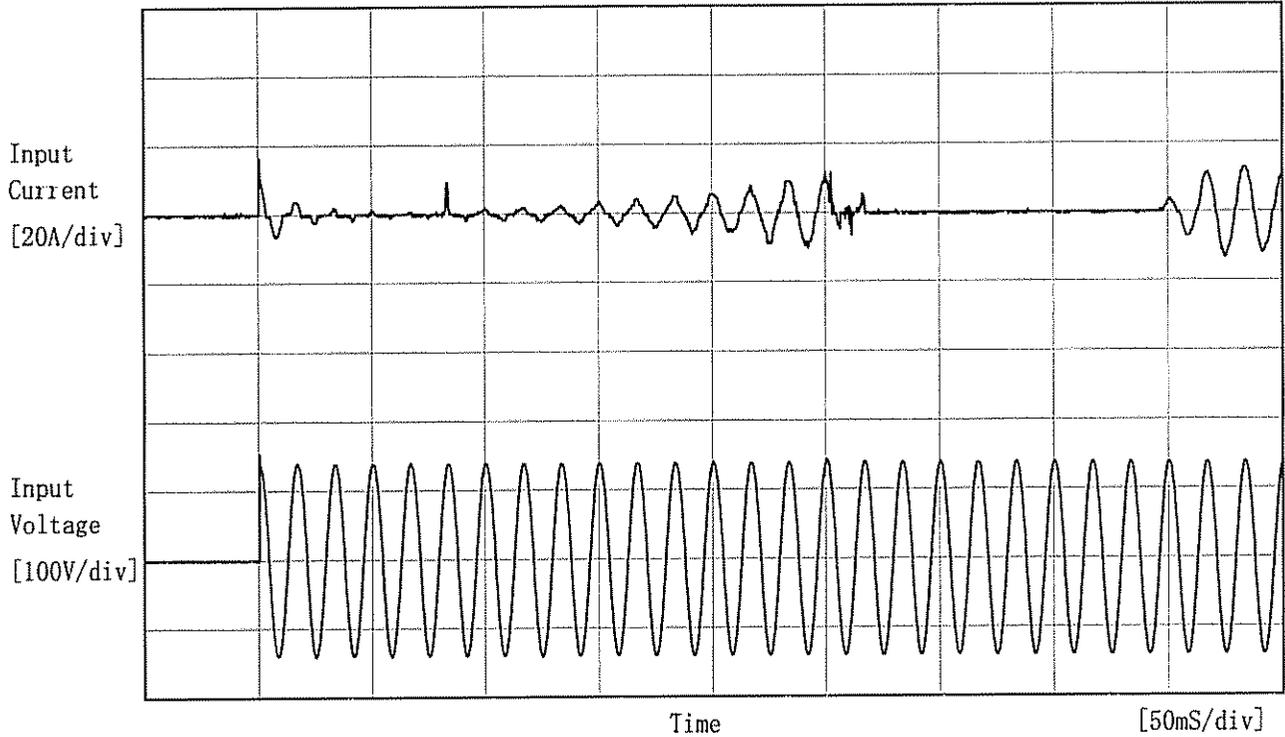
(注) 斜線は定格周囲温度範囲を示す。

2. Values

Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	32.30	32.30	32.30
-10	32.58	32.52	32.52
0	32.82	32.82	32.70
10	33.00	33.00	33.00
20	33.28	33.28	33.28
25	33.51	33.39	33.39
30	33.52	33.52	33.52
40	33.81	33.69	33.69
50	34.11	33.99	33.99
60	34.28	34.22	34.22
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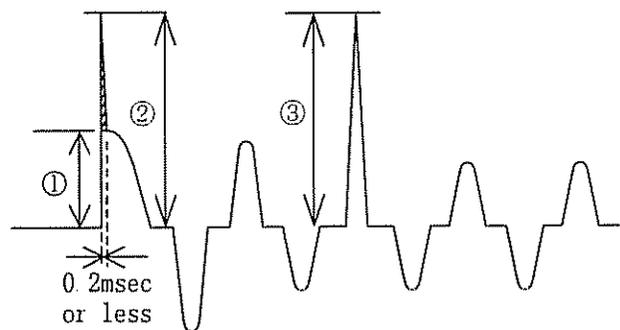
Model		ADA750F (ADA750F-24)	
Item		Inrush Current	Temperature 25°C
Object		突入電流	Testing Circuitry Figure A



Input Voltage 100 V  
 Frequency 60 Hz  
 Load 100 %

Inrush Current

- ① 11.4 [A]
- ② 16.2 [A] (0.2msec or less)\*1
- ③ 7.2 [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。



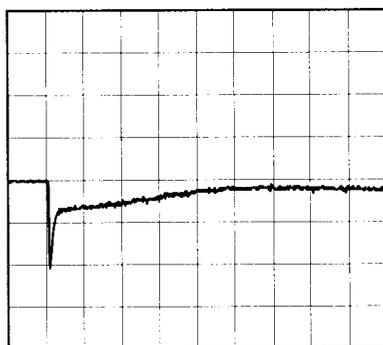
Model	ADA750F (ADA750F-24)	Temperature	25°C
Item	Dynamic Load Response 動的負荷変動	Testing Circuitry	Figure A
Object	V1:+24V25A		

Input Volt. AC100 V  
Cycle 1000 ms

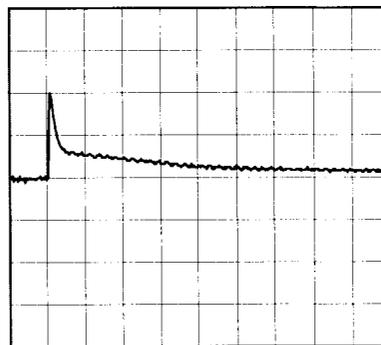


Min. Load (0A) ←→  
Load 100% (25A)

100 mV/div



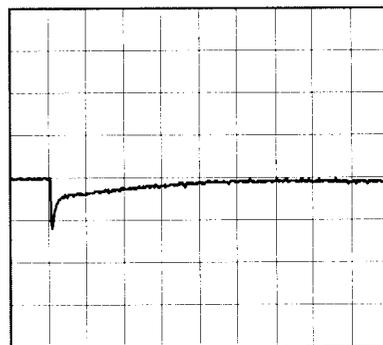
10 ms/div



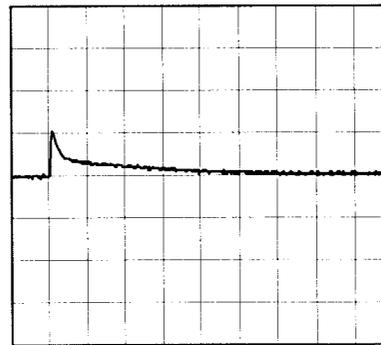
10 ms/div

Min. Load (0A) ←→  
Load 50% (12.5A)

100 mV/div



10 ms/div



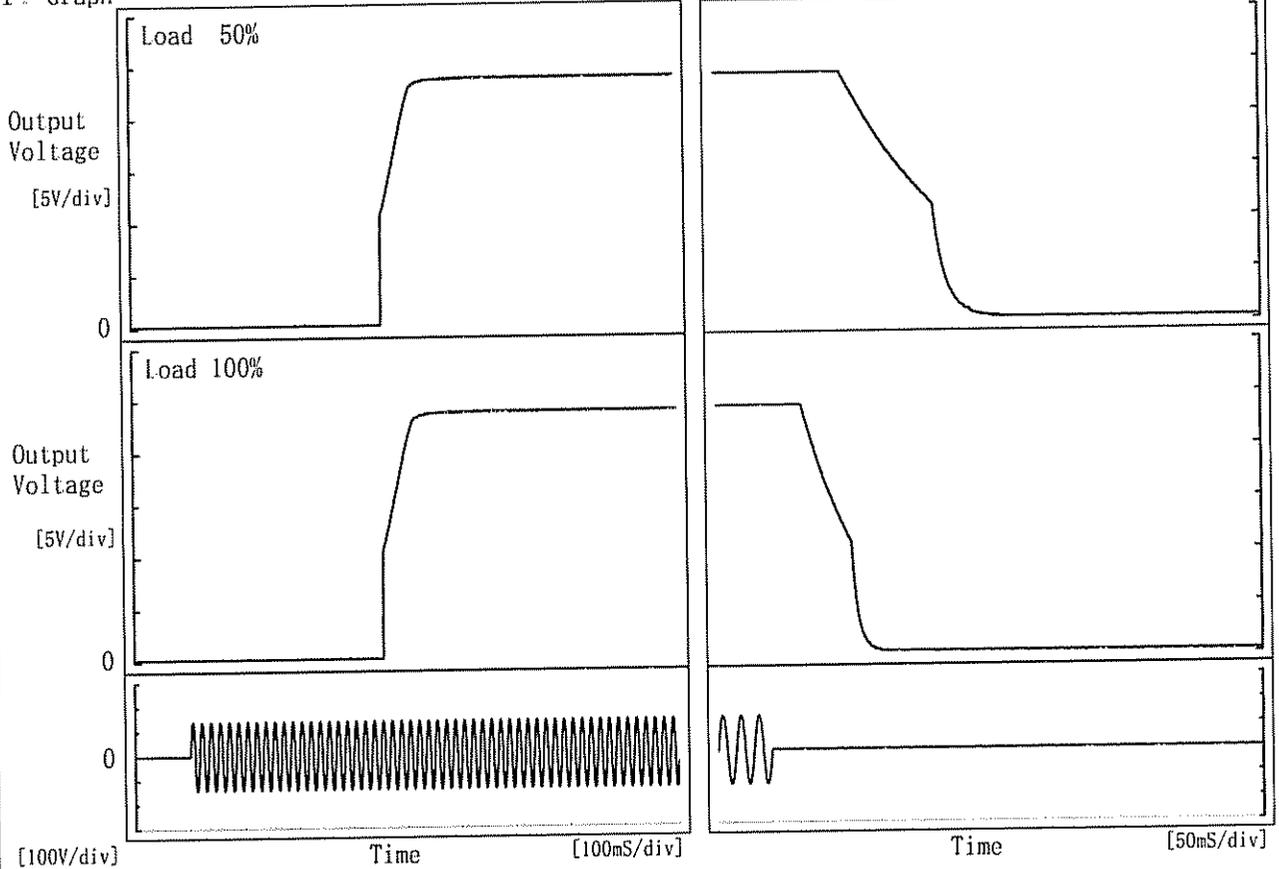
10 ms/div

# COSEL

Model	ADA750F (ADA750F-24)	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	VI:+24V25A		

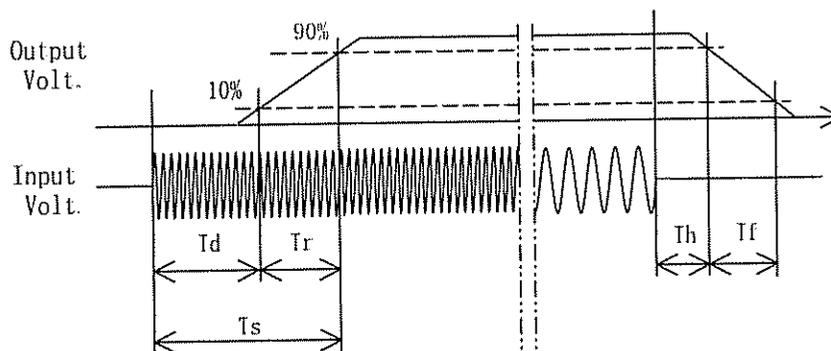
Input Volt. 100 V

1. Graph



2. Values

		[mS]				
Load	Time	T d	T r	T s	T h	T f
	50 %		357.0	49.5	406.5	77.0
100 %		356.5	50.0	406.5	34.3	49.3



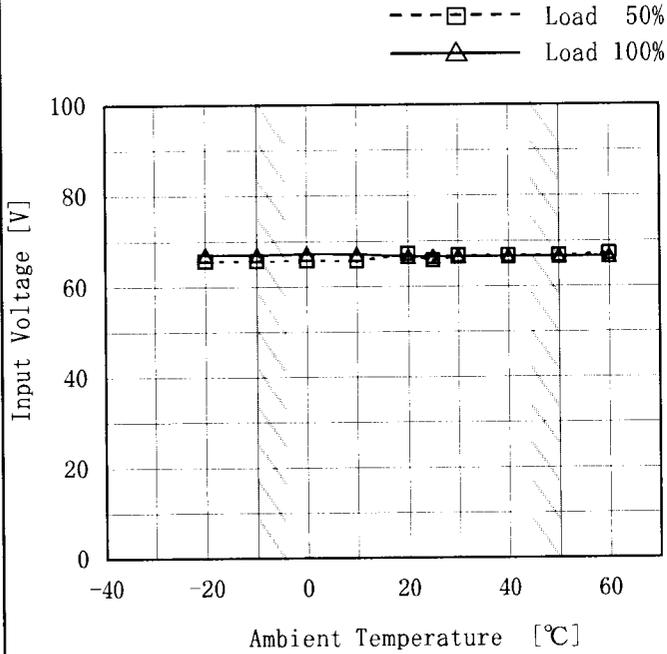
Model		ADA750F (ADA750F-24)		Testing Circuitry Figure A																																																				
Item		Ambient Temperature Drift 周囲温度変動																																																						
Object		V1:+24V25A																																																						
1. Graph		—△— Input Volt. 85 V	2. Values																																																					
		---□--- Input Volt. 100 V	<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>23.949</td><td>23.950</td><td>23.951</td></tr> <tr><td>-10</td><td>23.952</td><td>23.953</td><td>23.953</td></tr> <tr><td>0</td><td>23.955</td><td>23.956</td><td>23.957</td></tr> <tr><td>10</td><td>23.962</td><td>23.962</td><td>23.964</td></tr> <tr><td>20</td><td>23.965</td><td>23.965</td><td>23.967</td></tr> <tr><td>25</td><td>23.968</td><td>23.969</td><td>23.970</td></tr> <tr><td>30</td><td>23.970</td><td>23.971</td><td>23.972</td></tr> <tr><td>40</td><td>23.970</td><td>23.970</td><td>23.972</td></tr> <tr><td>50</td><td>23.960</td><td>23.960</td><td>23.962</td></tr> <tr><td>60</td><td>23.950</td><td>23.951</td><td>23.953</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	23.949	23.950	23.951	-10	23.952	23.953	23.953	0	23.955	23.956	23.957	10	23.962	23.962	23.964	20	23.965	23.965	23.967	25	23.968	23.969	23.970	30	23.970	23.971	23.972	40	23.970	23.970	23.972	50	23.960	23.960	23.962	60	23.950	23.951	23.953	--	—	—	—
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<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>																																																								



Model	ADA750F (ADA750F-24)
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	V1:+24V25A

Testing Circuitry Figure A

1. Graph



2. Values

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

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。



<b>COSEL</b>																												
Model	ADA750F (ADA750F-24)																											
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)	Testing Circuitry Figure A																										
Object	V1:+24V25A																											
<p>1. Graph</p> <p style="text-align: center;">Ripple Voltage [mV]</p> <p style="text-align: center;">Ambient Temperature [°C]</p> <p>Input Volt. 100 V</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>		<p>2. Values</p> <table border="1"> <thead> <tr> <th>Ambient Temperature [°C]</th> <th>Ripple Voltage [mV]</th> </tr> </thead> <tbody> <tr><td>-30</td><td>105</td></tr> <tr><td>-10</td><td>40</td></tr> <tr><td>0</td><td>30</td></tr> <tr><td>25</td><td>30</td></tr> <tr><td>50</td><td>25</td></tr> <tr><td>--</td><td>--</td></tr> <tr><td>--</td><td>--</td></tr> <tr><td>--</td><td>--</td></tr> <tr><td>--</td><td>--</td></tr> <tr><td>--</td><td>--</td></tr> <tr><td>--</td><td>--</td></tr> <tr><td>--</td><td>--</td></tr> </tbody> </table>	Ambient Temperature [°C]	Ripple Voltage [mV]	-30	105	-10	40	0	30	25	30	50	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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<b>COSEL</b>																									
Model	ADA750F (ADA750F-24)	Temperature	25°C																						
Item	Time Lapse Drift 経時ドリフト	Testing Circuitry	Figure A																						
Object	V1:+24V25A																								
1. Graph		2. Values																							
<p style="text-align: center;">Time [H]</p> <p>Input Volt.    100V 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>23.971</td></tr> <tr><td>0.5</td><td>23.956</td></tr> <tr><td>1.0</td><td>23.956</td></tr> <tr><td>2.0</td><td>23.957</td></tr> <tr><td>3.0</td><td>23.957</td></tr> <tr><td>4.0</td><td>23.957</td></tr> <tr><td>5.0</td><td>23.958</td></tr> <tr><td>6.0</td><td>23.958</td></tr> <tr><td>7.0</td><td>23.958</td></tr> <tr><td>8.0</td><td>23.959</td></tr> </tbody> </table>		Time since start [H]	Output Voltage [V]	0.0	23.971	0.5	23.956	1.0	23.956	2.0	23.957	3.0	23.957	4.0	23.957	5.0	23.958	6.0	23.958	7.0	23.958	8.0	23.959
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<b>COSEL</b>		
Model	ADA750F (ADA750F-24)	
Item	Output Voltage Accuracy 定電圧精度	Testing Circuitry Figure A
Object	V1:+24V25A	

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 ~ 25A

\* 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 ~ 25A

\* 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	25	85	0	24.000	±25	±0.1
Minimum Voltage	-10	85	25	23.950		

# COSEL

Model	ADA750F (ADA750F-24)	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	0.19	0.22	0.28
(B) IEC60950	0.19	0.22	0.28

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。

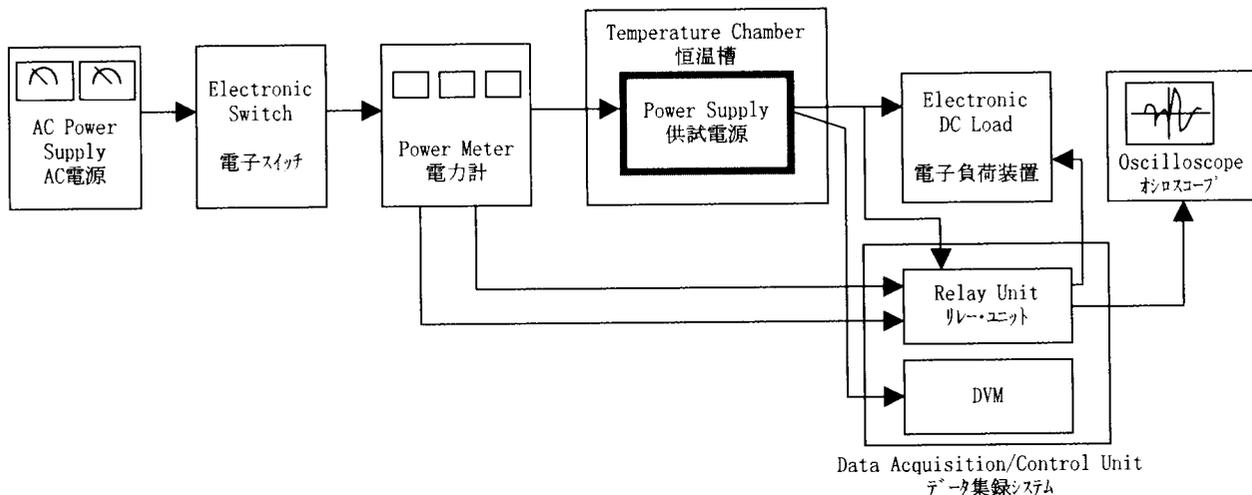


Figure A

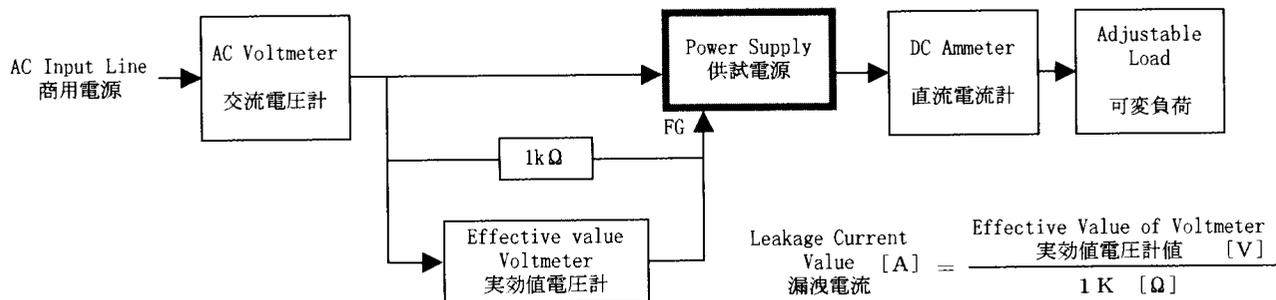


Figure B ( DEN-AN )

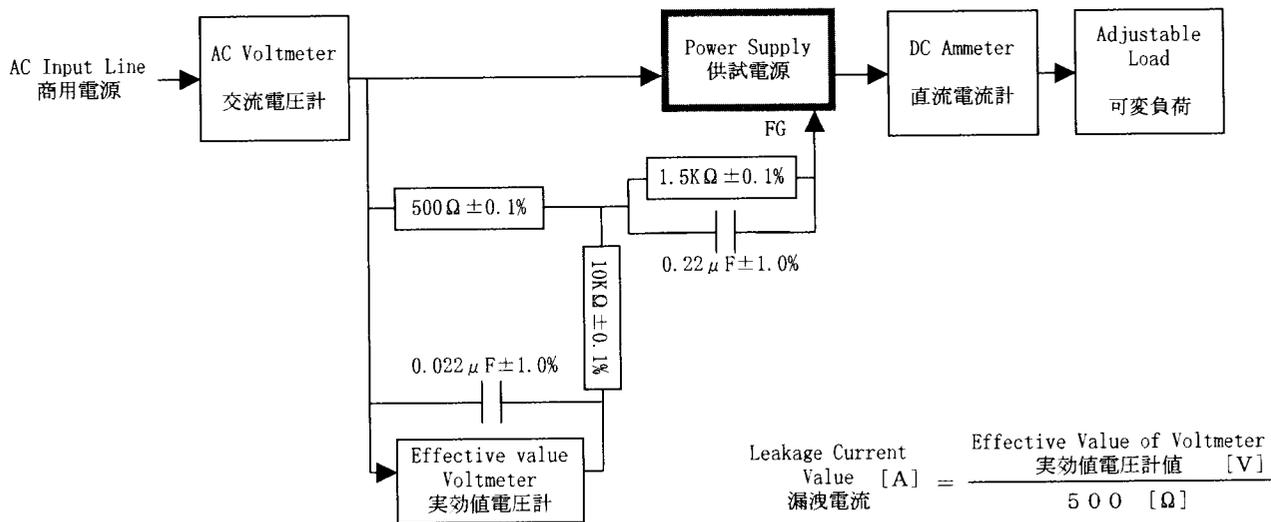


Figure B ( IEC60950 )