



TEST DATA OF ADA

ADA600F-36
(100V INPUT)

Regulated DC power supply
Mar. 11, 2003

Approved by : Kuniaki Nagahara
Kuniaki Nagahara Design Manager

Prepared by : Koji Todo
Koji Todo Design Engineer

INPUT : AC 85~132V

OUTPUT : V1: 36V 14A

コーセル株式会社
COSEL CO.,LTD.



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Model		ADA600F (ADA600F-36)	Temperature		25°C																																
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<p>1. Graph</p> <p>—△— Input Volt. 85V ---□--- Input Volt. 100V -·-○-·- Input Volt. 132V</p> <p>Hold-Up Time [mS]</p> <p>Load Power [W]</p>				<p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="3">Hold-Up Time [mS]</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>0.0</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>100.8</td><td>199</td><td>204</td><td>212</td></tr> <tr><td>201.6</td><td>96</td><td>101</td><td>107</td></tr> <tr><td>302.4</td><td>59</td><td>64</td><td>69</td></tr> <tr><td>403.2</td><td>40</td><td>45</td><td>50</td></tr> <tr><td>504.0</td><td>29</td><td>33</td><td>38</td></tr> <tr><td>554.4</td><td>25</td><td>29</td><td>34</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]	Hold-Up Time [mS]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.0	—	—	—	100.8	199	204	212	201.6	96	101	107	302.4	59	64	69	403.2	40	45	50	504.0	29	33	38	554.4	25	29	34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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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>																																																										



Model		ADA600F (ADA600F-36)		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																																																				
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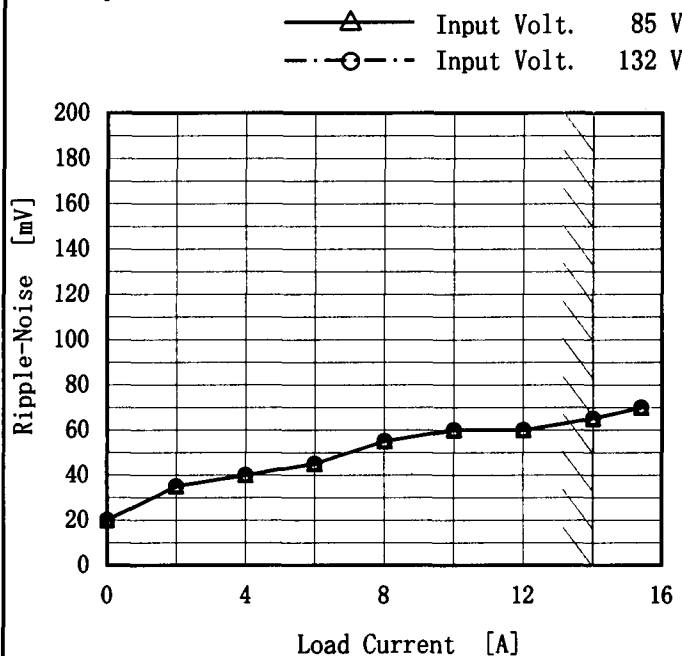
Model		ADA600F (ADA600F-36)		Temperature 25°C																																																				
Item		Load Regulation 静的負荷変動		Testing Circuitry Figure A																																																				
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Model		ADA600F (ADA600F-36)	Temperature		25°C																																						
Item		Ripple Voltage (by Load Current) リップル電圧 (負荷特性)	Testing Circuitry		Figure A																																						
Object		V1:+36V14A																																									
1. Graph			2. Values																																								
<p> —△— Input Volt. 85 V - - ○ - - Input Volt. 132 V </p> <p>Ripple Voltage [mV]</p> <p>Load Current [A]</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>2.0</td><td>30</td><td>30</td></tr> <tr><td>4.0</td><td>35</td><td>35</td></tr> <tr><td>6.0</td><td>40</td><td>40</td></tr> <tr><td>8.0</td><td>40</td><td>40</td></tr> <tr><td>10.0</td><td>45</td><td>45</td></tr> <tr><td>12.0</td><td>45</td><td>45</td></tr> <tr><td>14.0</td><td>50</td><td>50</td></tr> <tr><td>15.4</td><td>55</td><td>55</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	2.0	30	30	4.0	35	35	6.0	40	40	8.0	40	40	10.0	45	45	12.0	45	45	14.0	50	50	15.4	55	55	—	—	—	—	—	—
Load Current [A]	Ripple Output Voltage [mV]																																										
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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</p> <p>T2: Due to Switching スイッチング周期</p> <p>Ripple [mVp-p]</p> <p>Fig. Complex Ripple Wave Form 図 リップル波形詳細図</p>																																											

Model	ADA600F (ADA600F-36)	
Item	Ripple-Noise リップルノイズ	Temperature 25°C Testing Circuitry Figure A
Object	V1:+36V14A	

1. Graph



2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 85[V]	Input Volt. 132[V]
0.0	20	20
2.0	35	35
4.0	40	40
6.0	45	45
8.0	55	55
10.0	60	60
12.0	60	60
14.0	65	65
15.4	70	70
--	--	--
--	--	--

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

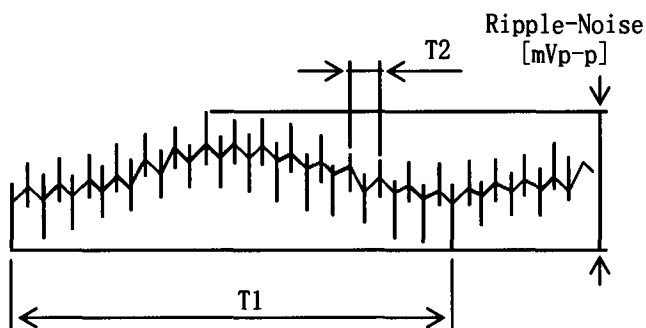


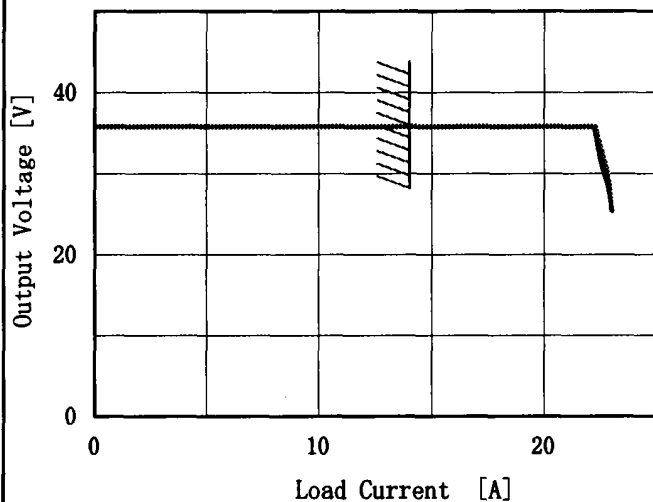
Fig. Complex Ripple Wave Form
 図 リップル波形詳細図



Model	ADA600F (ADA600F-36)
Item	Overcurrent Protection 過電流保護
Object	V1:+36V14A

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 25.2V to 0V.

25.2V~0V間は、間欠モードとなる。

2. Values

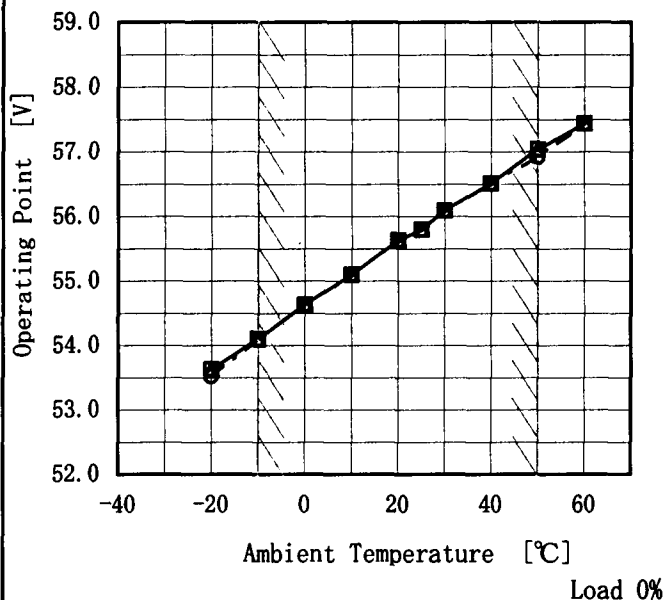
Output Voltage [V]	Load Current [A]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
36.0	22.07	21.98	22.30
34.2	22.33	22.36	22.43
32.4	22.44	22.50	22.62
28.8	22.78	22.87	22.91
25.2	23.07	23.07	23.06
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—



Model	ADA600F (ADA600F-36)
Item	Overvoltage Protection 過電圧保護
Object	V _I :+36V14A

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 ambient temperature.

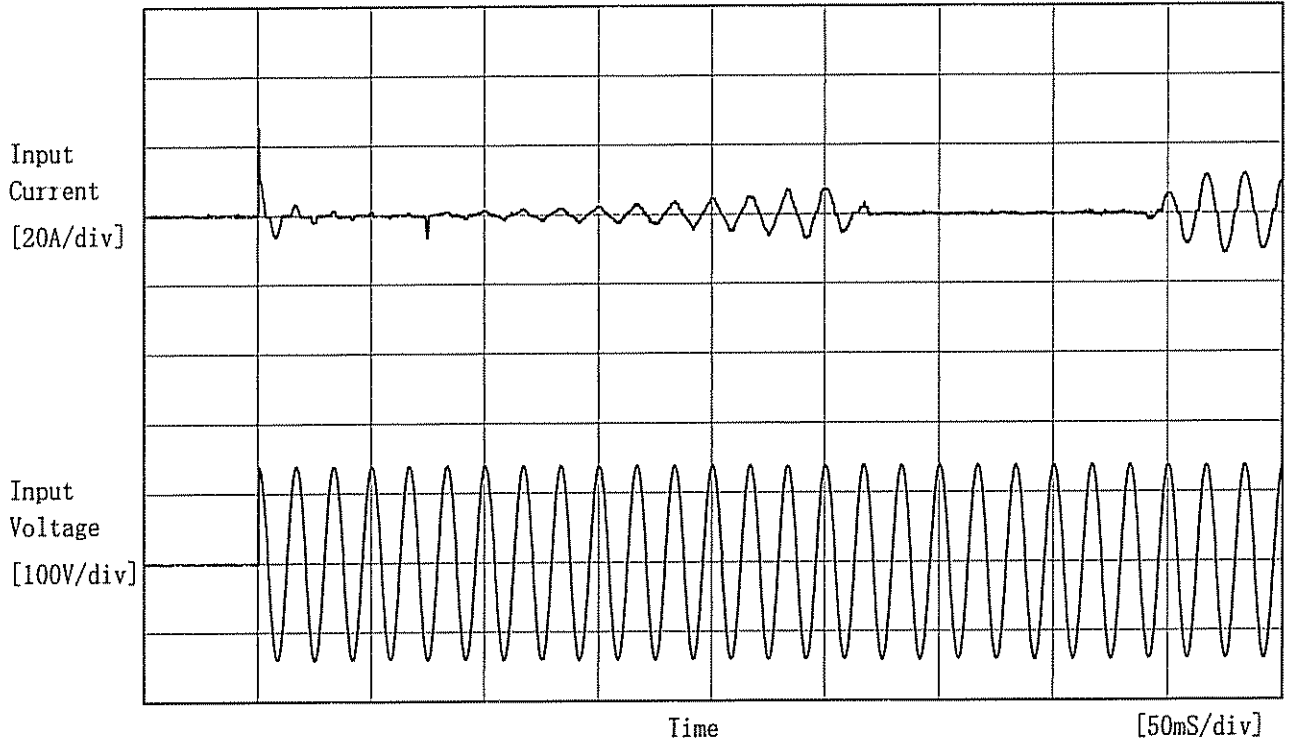
(注) 斜線は定格周囲温度範囲を示す。

2. Values

Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	53.63	53.63	53.52
-10	54.10	54.10	54.10
0	54.64	54.63	54.63
10	55.10	55.10	55.10
20	55.63	55.63	55.63
25	55.80	55.80	55.80
30	56.10	56.09	56.09
40	56.51	56.51	56.51
50	57.04	57.04	56.92
60	57.44	57.44	57.44
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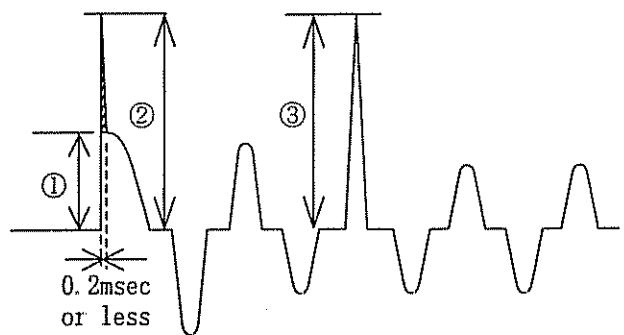
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Model	ADA600F (ADA600F-36)	
Item	Inrush Current 突入電流	Temperature 25°C Testing Circuitry Figure A
Object	_____	



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

- ① 12.6 [A]
- ② 25.5 [A] (0.2msec or less)*1
- ③ 6.6 [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.

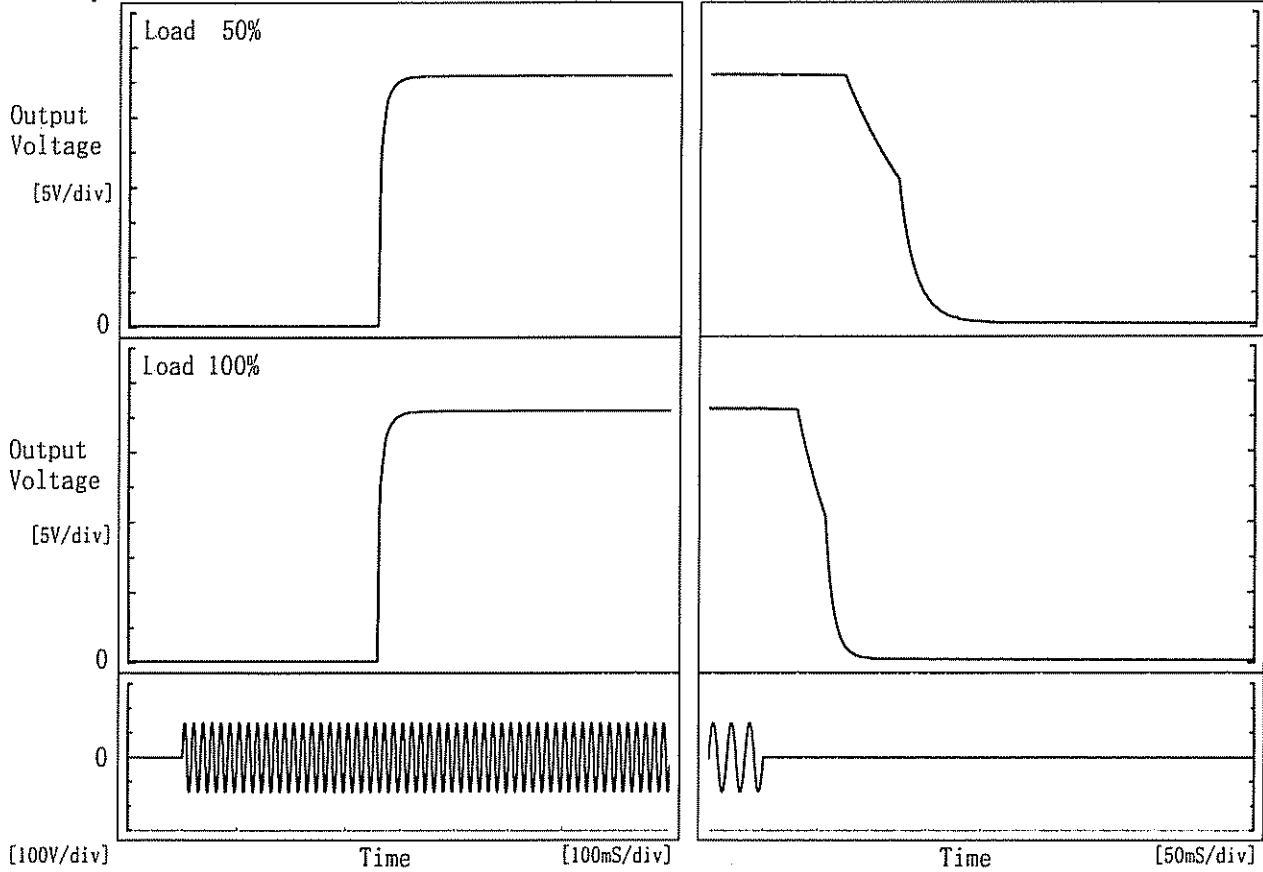
本製品の突入電流(1次サージ)の仕様は、内蔵ノイズフィルタ部へのサージ電流(0.2msec以下:波形②)を除きます。



Model	ADA600F (ADA600F-36)	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	V1:+36V14A		

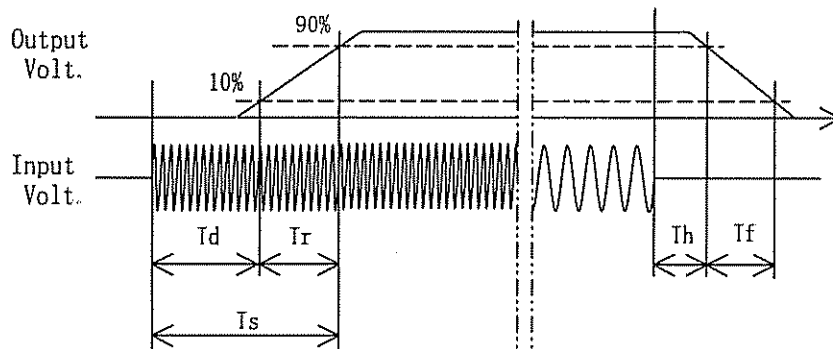
1. Graph

Input Volt. 100 V



2. Values

		[mS]				
Load	Time	T d	T r	T s	T h	T f
	50 %		358.5	16.5	375.0	82.0
100 %		358.5	16.5	375.0	35.0	36.0

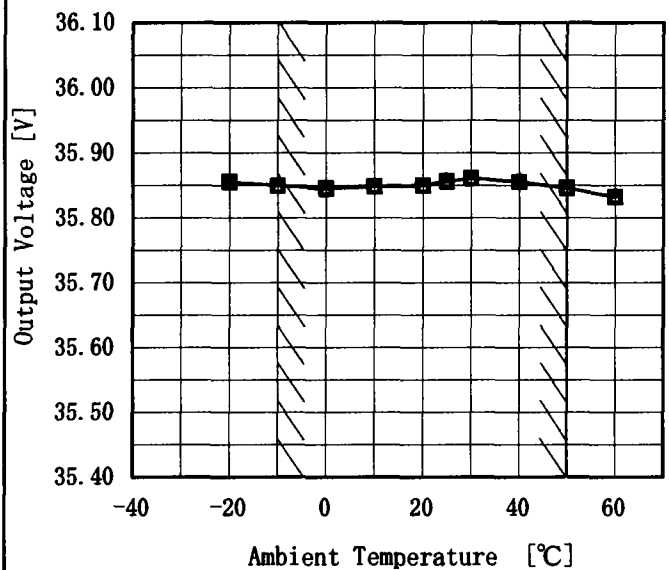




Model	ADA600F (ADA600F-36)
Item	Ambient Temperature Drift 周囲温度変動
Object	V1:+36V14A

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

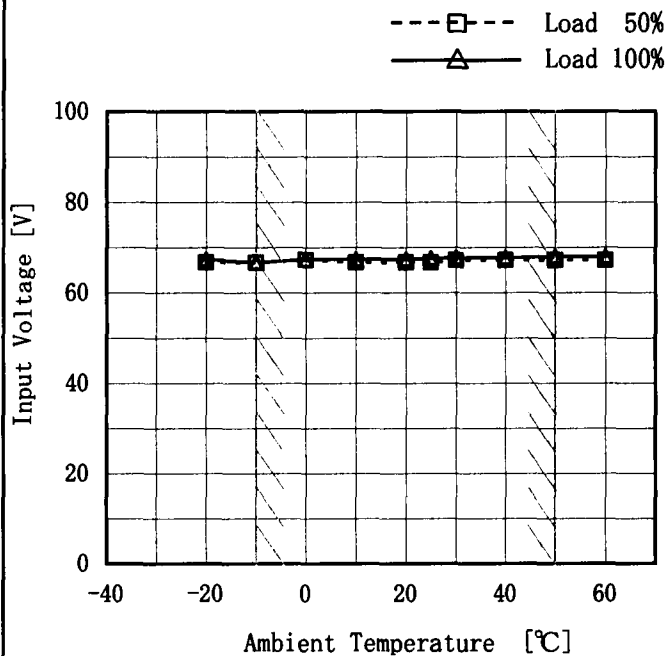
Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	35.855	35.856	35.854
-10	35.850	35.849	35.850
0	35.845	35.846	35.845
10	35.848	35.848	35.848
20	35.850	35.850	35.850
25	35.856	35.856	35.857
30	35.861	35.861	35.861
40	35.856	35.855	35.856
50	35.845	35.846	35.846
60	35.832	35.833	35.833
—	—	—	—



Model	ADA600F (ADA600F-36)
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	V1:+36V14A

Testing Circuitry Figure A

1. Graph



2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	67	67
-10	67	67
0	67	67
10	67	67
20	67	67
25	67	68
30	67	68
40	67	68
50	67	68
60	67	68
--	--	--

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		ADA600F (ADA600F-36)	Testing Circuitry Figure A																								
Item		Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)																									
Object		V1:+36V14A																									
1. Graph		2. Values																									
<p style="text-align: center;">Ambient Temperature [°C]</p> <p style="text-align: center;">Input Volt. 100 V Load 100 %</p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Ambient Temperature [°C]</th> <th style="text-align: center;">Ripple Voltage [mV]</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">-10</td><td style="text-align: center;">80</td></tr> <tr><td style="text-align: center;">0</td><td style="text-align: center;">60</td></tr> <tr><td style="text-align: center;">25</td><td style="text-align: center;">50</td></tr> <tr><td style="text-align: center;">50</td><td style="text-align: center;">40</td></tr> <tr><td style="text-align: center;">—</td><td style="text-align: center;">—</td></tr> <tr><td style="text-align: center;">—</td><td style="text-align: center;">—</td></tr> <tr><td style="text-align: center;">—</td><td style="text-align: center;">—</td></tr> <tr><td style="text-align: center;">—</td><td style="text-align: center;">—</td></tr> <tr><td style="text-align: center;">—</td><td style="text-align: center;">—</td></tr> <tr><td style="text-align: center;">—</td><td style="text-align: center;">—</td></tr> <tr><td style="text-align: center;">—</td><td style="text-align: center;">—</td></tr> </tbody> </table>		Ambient Temperature [°C]	Ripple Voltage [mV]	-10	80	0	60	25	50	50	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ambient Temperature [°C]	Ripple Voltage [mV]																										
-10	80																										
0	60																										
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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>																											



COSEL																									
Model	ADA600F (ADA600F-36)	Temperature	25°C																						
Item	Time Lapse Drift 経時ドリフト	Testing Circuitry	Figure A																						
Object	V1:+36V14A																								
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>35.829</td></tr> <tr><td>0.5</td><td>35.809</td></tr> <tr><td>1.0</td><td>35.808</td></tr> <tr><td>2.0</td><td>35.811</td></tr> <tr><td>3.0</td><td>35.811</td></tr> <tr><td>4.0</td><td>35.811</td></tr> <tr><td>5.0</td><td>35.811</td></tr> <tr><td>6.0</td><td>35.811</td></tr> <tr><td>7.0</td><td>35.811</td></tr> <tr><td>8.0</td><td>35.811</td></tr> </tbody> </table>		Time since start [H]	Output Voltage [V]	0.0	35.829	0.5	35.809	1.0	35.808	2.0	35.811	3.0	35.811	4.0	35.811	5.0	35.811	6.0	35.811	7.0	35.811	8.0	35.811
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COSEL		Testing Circuitry Figure A
Model	ADA600F (ADA600F-36)	
Item	Output Voltage Accuracy 定電圧精度	
Object	V1:+36V14A	

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 ~ 14A

* 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 ~ 14A

* 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	35.877	±20	±0.1
Minimum Voltage	50	85	14	35.838		

COSEL

Model		ADA600F (ADA600F-36)	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	0.15	0.18	0.24
(B) IEC60950	0.15	0.18	0.24

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。

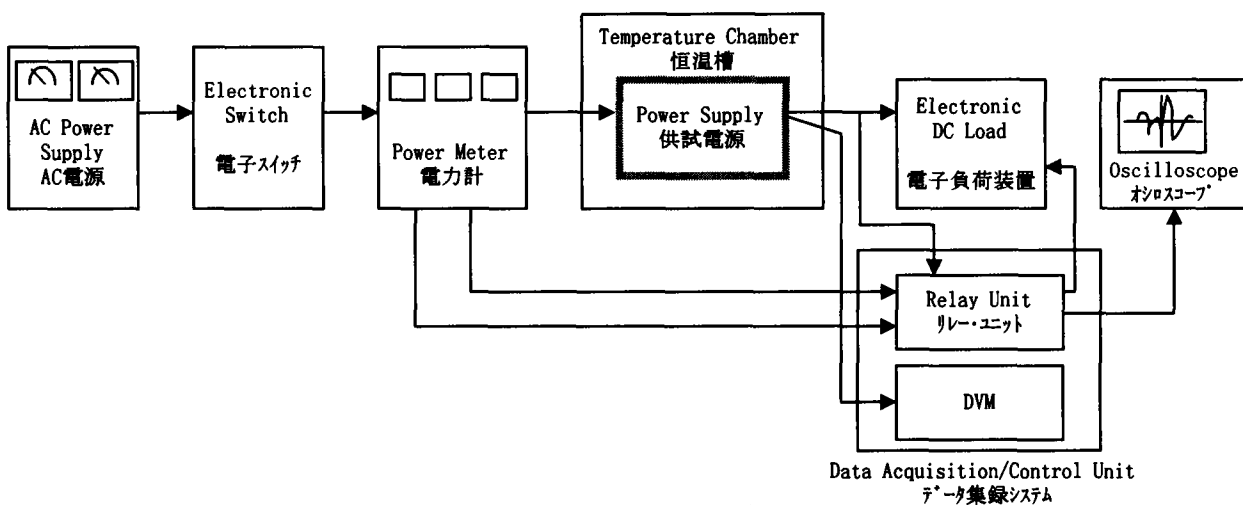


Figure A

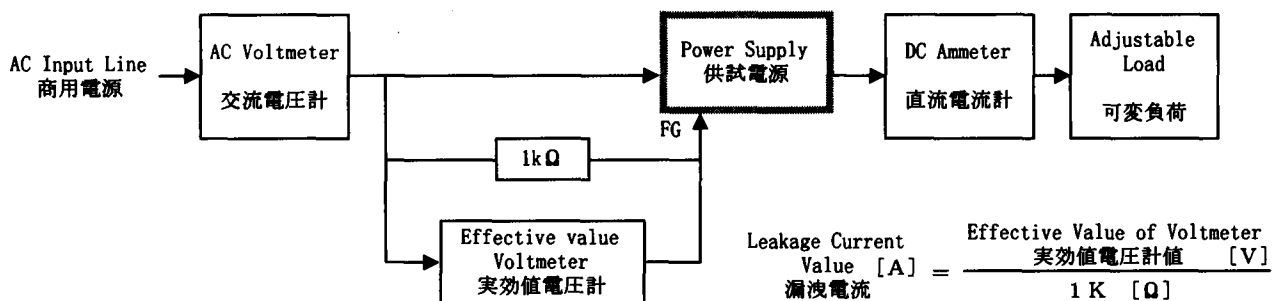


Figure B (DEN-AN)

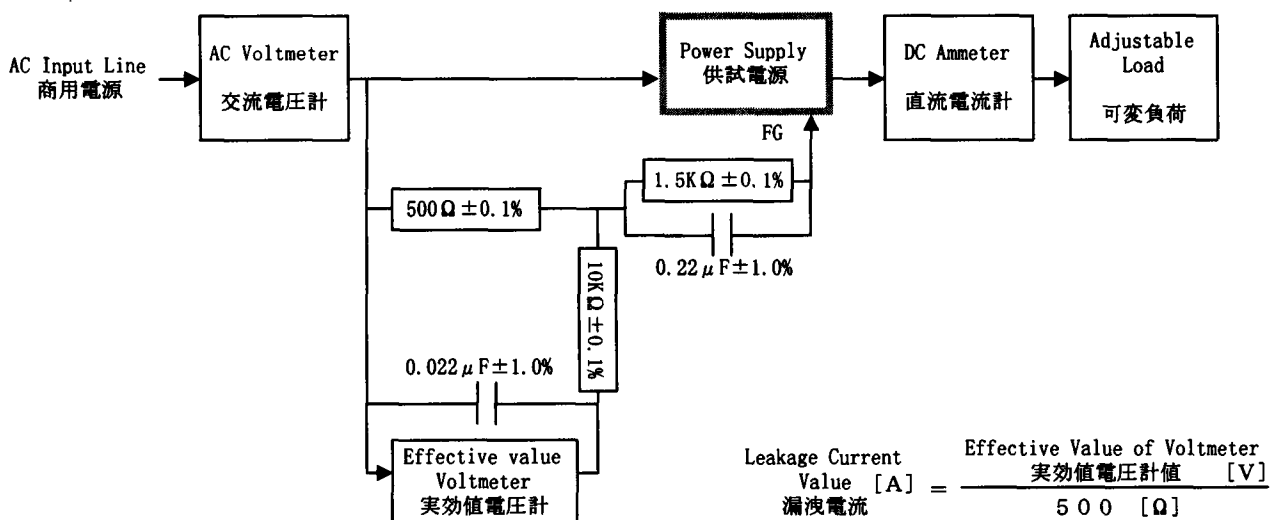


Figure B (IEC60950)