



TEST DATA OF ADA1000F

ADA1000F-24
(200V INPUT)

Regulated DC power supply
Jan. 22, 2003

Approved by : Kuniaki Nagahara
Kuniaki Nagahara Design Manager

Prepared by : Toshihisa Miura
Toshihisa Miura Design Engineer

INPUT : AC 170~264V

OUTPUT : V1: 24V 42A

コーセル株式会社
COSEL CO.,LTD.

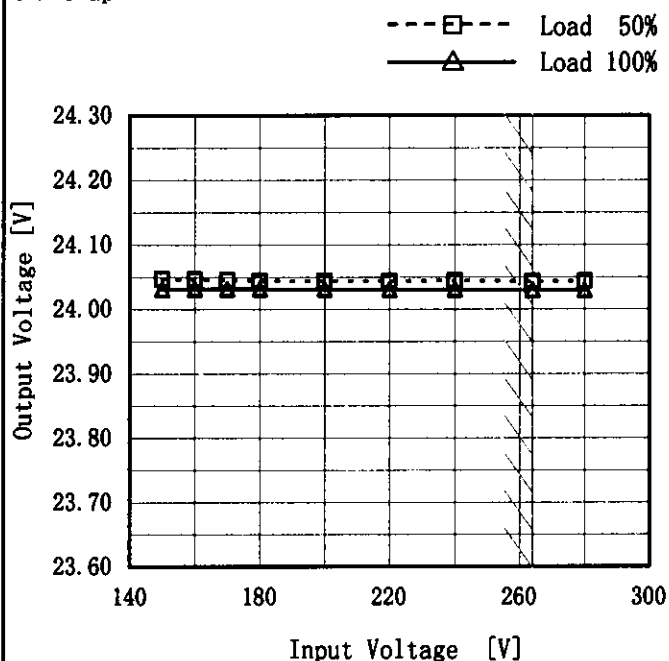
CONTENTS

1. Line Regulation	1
静的入力変動	
2. Input Current (by Load Power)	2
入力電流 (負荷電力特性)	
3. Input Power (by Load Power)	3
入力電力 (負荷電力特性)	
4. Efficiency (by Input Voltage)	4
効率 (入力電圧特性)	
5. Efficiency (by Load Power)	5
効率 (負荷電力特性)	
6. Power Factor (by Input Voltage)	6
力率 (入力電圧特性)	
7. Power Factor (by Load Power)	7
力率 (負荷電力特性)	
8. Hold-Up Time (by Load Power)	8
出力保持時間 (負荷電力特性)	
9. Instantaneous Interruption Compensation (by Load Power)	9
瞬時停電保障 (負荷電力特性)	
10. Load Regulation	10
静的負荷変動	
11. Ripple Voltage (by Load Current)	11
リップル電圧 (負荷電流特性)	
12. Ripple-Noise	12
リップルノイズ	
13. Overcurrent Protection	13
過電流保護	
14. Overvoltage Protection	14
過電圧保護	
15. Inrush Current	15
突入電流	
16. Dynamic Load Response	16
動的負荷変動	
17. Rise and Fall Time	17
立上り、立下り時間	
18. Ambient Temperature Drift	18
周囲温度変動	
19. Minimum Input Voltage for Regulated Output Voltage	19
最低レギュレーション電圧	
20. Ripple Voltage (by Ambient Temperature)	20
リップル電圧 (周囲温度特性)	
21. Time Lapse Drift	21
経時ドリフト	
22. Output Voltage Accuracy	22
定電圧精度	
23. Leakage Current	23
漏洩電流	
24. Figure of Testing Circuitry	24
測定回路図	

COSEL

Model	ADA1000F (ADA1000F-24)
Item	Line Regulation 静的入力変動
Object	V1:+24V42A

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。

Temperature 25℃
Testing Circuitry Figure A

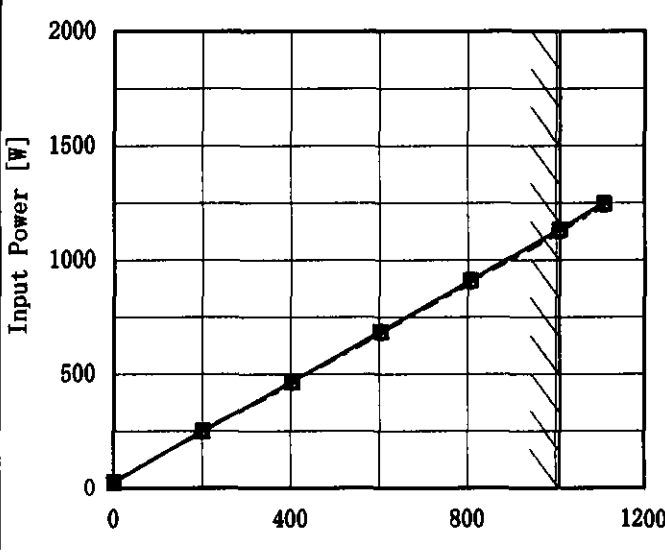
2. Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
150	24.047	24.031
160	24.046	24.031
170	24.045	24.031
180	24.044	24.031
200	24.044	24.031
220	24.044	24.031
240	24.044	24.030
264	24.044	24.030
280	24.043	24.030

COSEL

Model	ADA1000F (ADA1000F-24)																																																					
Item	Input Current (by Load Current) 入力電流 (負荷電力特性)	Temperature	25°C																																																			
Object		Testing Circuitry	Figure A																																																			
1. Graph	<div> <div>—△— Input Volt. 170 V</div> <div>- - -□- - - Input Volt. 200 V</div> <div>- - -○- - - Input Volt. 264 V</div> </div> <p>Input Current [A]</p> <p>Load Power [W]</p>																																																					
2. Values	<table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th><th colspan="3">Input Current [A]</th></tr> <tr> <th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr> </thead> <tbody> <tr><td>0.0</td><td>0.260</td><td>0.270</td><td>0.270</td></tr> <tr><td>201.6</td><td>1.550</td><td>1.350</td><td>1.100</td></tr> <tr><td>403.2</td><td>2.810</td><td>2.400</td><td>1.910</td></tr> <tr><td>604.8</td><td>4.090</td><td>3.490</td><td>2.740</td></tr> <tr><td>806.4</td><td>5.400</td><td>4.600</td><td>3.560</td></tr> <tr><td>1008.0</td><td>6.710</td><td>5.710</td><td>4.380</td></tr> <tr><td>1108.8</td><td>7.380</td><td>6.270</td><td>4.800</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 Current [A]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0.0	0.260	0.270	0.270	201.6	1.550	1.350	1.100	403.2	2.810	2.400	1.910	604.8	4.090	3.490	2.740	806.4	5.400	4.600	3.560	1008.0	6.710	5.710	4.380	1108.8	7.380	6.270	4.800	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Load Power [W]	Input Current [A]																																																					
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]																																																			
0.0	0.260	0.270	0.270																																																			
201.6	1.550	1.350	1.100																																																			
403.2	2.810	2.400	1.910																																																			
604.8	4.090	3.490	2.740																																																			
806.4	5.400	4.600	3.560																																																			
1008.0	6.710	5.710	4.380																																																			
1108.8	7.380	6.270	4.800																																																			
—	—	—	—																																																			
—	—	—	—																																																			
—	—	—	—																																																			
—	—	—	—																																																			
<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>																																																						

COSEL

Model		ADA1000F (ADA1000F-24)		Temperature 25℃																																																				
Item		Input Power (by Load Power) 入力電力 (負荷電力特性)		Testing Circuitry Figure A																																																				
Object																																																								
1. Graph		—△— Input Volt. 170 V ---□--- Input Volt. 200 V -○- Input Volt. 264 V		2. Values																																																				
				<table><tr><th rowspan="2">Load Power [W]</th><th colspan="3">Input Power [W]</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>0.0</td><td>26</td><td>26</td><td>26</td></tr><tr><td>201.6</td><td>251</td><td>249</td><td>249</td></tr><tr><td>403.2</td><td>468</td><td>465</td><td>462</td></tr><tr><td>604.8</td><td>687</td><td>684</td><td>681</td></tr><tr><td>806.4</td><td>912</td><td>909</td><td>903</td></tr><tr><td>1008.0</td><td>1137</td><td>1133</td><td>1125</td></tr><tr><td>1108.8</td><td>1251</td><td>1245</td><td>1239</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></table>		Load Power [W]	Input Power [W]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0.0	26	26	26	201.6	251	249	249	403.2	468	465	462	604.8	687	684	681	806.4	912	909	903	1008.0	1137	1133	1125	1108.8	1251	1245	1239	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Load Power [W]	Input Power [W]																																																							
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]																																																					
0.0	26	26	26																																																					
201.6	251	249	249																																																					
403.2	468	465	462																																																					
604.8	687	684	681																																																					
806.4	912	909	903																																																					
1008.0	1137	1133	1125																																																					
1108.8	1251	1245	1239																																																					
—	—	—	—																																																					
—	—	—	—																																																					
—	—	—	—																																																					
—	—	—	—																																																					
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

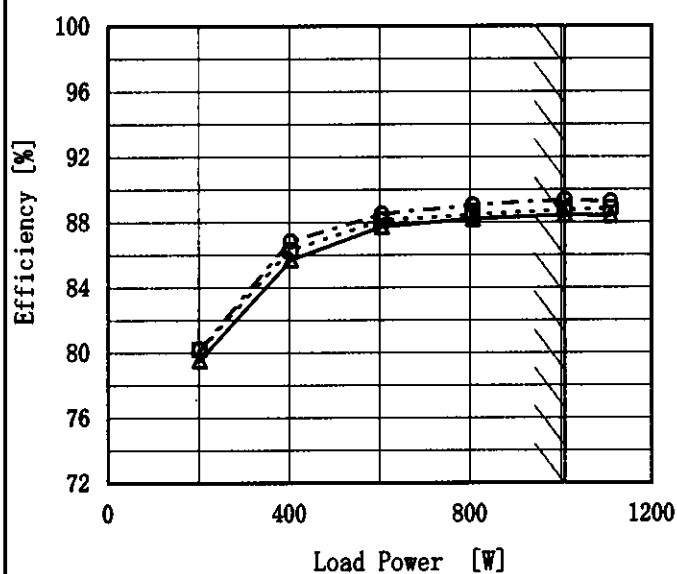
Model		ADA1000F (ADA1000F-24)																																
Item		Efficiency (by Input Voltage) 効率 (入力電圧特性)																																
Object																																		
1. Graph		<p>---□--- Load 50% —△— Load 100%</p> <p>Efficiency [%]</p> <p>Input Voltage [V]</p> <p>Note: Slanted line shows 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>																																
2. Values		<table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th><th colspan="2">Efficiency [%]</th></tr> <tr> <th>Load 50%</th><th>Load 100%</th></tr> </thead> <tbody> <tr><td>150</td><td>86.7</td><td>88.2</td></tr> <tr><td>160</td><td>87.1</td><td>88.2</td></tr> <tr><td>170</td><td>87.1</td><td>88.4</td></tr> <tr><td>180</td><td>87.1</td><td>88.7</td></tr> <tr><td>200</td><td>87.1</td><td>88.8</td></tr> <tr><td>220</td><td>87.6</td><td>88.9</td></tr> <tr><td>240</td><td>87.6</td><td>89.1</td></tr> <tr><td>264</td><td>87.6</td><td>89.3</td></tr> <tr><td>280</td><td>88.2</td><td>89.4</td></tr> </tbody> </table>	Input Voltage [V]	Efficiency [%]		Load 50%	Load 100%	150	86.7	88.2	160	87.1	88.2	170	87.1	88.4	180	87.1	88.7	200	87.1	88.8	220	87.6	88.9	240	87.6	89.1	264	87.6	89.3	280	88.2	89.4
Input Voltage [V]	Efficiency [%]																																	
	Load 50%	Load 100%																																
150	86.7	88.2																																
160	87.1	88.2																																
170	87.1	88.4																																
180	87.1	88.7																																
200	87.1	88.8																																
220	87.6	88.9																																
240	87.6	89.1																																
264	87.6	89.3																																
280	88.2	89.4																																

COSEL

Model	ADA1000F (ADA1000F-24)
Item	Efficiency (by Load Power) 効率 (負荷電力特性)
Object	

Temperature 25°C
Testing Circuitry Figure A

1. Graph
- △— Input Volt. 170 V
 - Input Volt. 200 V
 - Input Volt. 264 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]	Efficiency [%]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.0	—	—	—
201.6	79.5	80.2	80.2
403.2	85.7	86.3	86.9
604.8	87.7	88.1	88.5
806.4	88.2	88.5	89.1
1008.0	88.4	88.8	89.4
1108.8	88.4	88.8	89.3
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model		ADA1000F (ADA1000F-24)		Temperature		25℃																																																																	
Item		Power Factor (by Input Voltage) 力率 (入力電圧特性)		Testing Circuitry		Figure A																																																																	
Object																																																																							
1. Graph				2. Values																																																																			
<div><div><div>---□---</div><div>Load 50%</div></div><div><div>---△---</div><div>Load 100%</div></div></div> <table><thead><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Power Factor</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>150</td><td>0.991</td><td>0.997</td></tr><tr><td>160</td><td>0.986</td><td>0.996</td></tr><tr><td>170</td><td>0.981</td><td>0.996</td></tr><tr><td>180</td><td>0.981</td><td>0.994</td></tr><tr><td>200</td><td>0.976</td><td>0.991</td></tr><tr><td>220</td><td>0.968</td><td>0.990</td></tr><tr><td>240</td><td>0.958</td><td>0.985</td></tr><tr><td>264</td><td>0.938</td><td>0.973</td></tr><tr><td>280</td><td>0.863</td><td>0.930</td></tr></tbody></table>				Input Voltage [V]	Power Factor		Load 50%	Load 100%	150	0.991	0.997	160	0.986	0.996	170	0.981	0.996	180	0.981	0.994	200	0.976	0.991	220	0.968	0.990	240	0.958	0.985	264	0.938	0.973	280	0.863	0.930	<table><thead><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Power Factor</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>150</td><td>0.991</td><td>0.997</td></tr><tr><td>160</td><td>0.986</td><td>0.996</td></tr><tr><td>170</td><td>0.981</td><td>0.996</td></tr><tr><td>180</td><td>0.981</td><td>0.994</td></tr><tr><td>200</td><td>0.976</td><td>0.991</td></tr><tr><td>220</td><td>0.968</td><td>0.990</td></tr><tr><td>240</td><td>0.958</td><td>0.985</td></tr><tr><td>264</td><td>0.938</td><td>0.973</td></tr><tr><td>280</td><td>0.863</td><td>0.930</td></tr></tbody></table>				Input Voltage [V]	Power Factor		Load 50%	Load 100%	150	0.991	0.997	160	0.986	0.996	170	0.981	0.996	180	0.981	0.994	200	0.976	0.991	220	0.968	0.990	240	0.958	0.985	264	0.938	0.973	280	0.863	0.930
Input Voltage [V]	Power Factor																																																																						
	Load 50%	Load 100%																																																																					
150	0.991	0.997																																																																					
160	0.986	0.996																																																																					
170	0.981	0.996																																																																					
180	0.981	0.994																																																																					
200	0.976	0.991																																																																					
220	0.968	0.990																																																																					
240	0.958	0.985																																																																					
264	0.938	0.973																																																																					
280	0.863	0.930																																																																					
Input Voltage [V]	Power Factor																																																																						
	Load 50%	Load 100%																																																																					
150	0.991	0.997																																																																					
160	0.986	0.996																																																																					
170	0.981	0.996																																																																					
180	0.981	0.994																																																																					
200	0.976	0.991																																																																					
220	0.968	0.990																																																																					
240	0.958	0.985																																																																					
264	0.938	0.973																																																																					
280	0.863	0.930																																																																					
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。																																																																							

COSEL

Model		ADA1000F (ADA1000F-24)	
Item		Power Factor (by Load Power) 力率 (負荷電力特性)	
Object			
1. Graph		2. Values	

—△— Input Volt. 170 V

---□--- Input Volt. 200 V

-·-○-·- Input Volt. 264 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。

Load Power [W]	Power Factor		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.0	0.591	0.481	0.351
201.6	0.954	0.922	0.859
403.2	0.979	0.969	0.917
604.8	0.988	0.980	0.942
806.4	0.995	0.988	0.961
1008.0	0.996	0.992	0.973
1108.8	0.997	0.993	0.977
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

COSEL

Model		ADA1000F (ADA1000F-24)		Temperature		25℃																																																				
Item		Hold-Up Time (by Load Power) 出力保持時間 (負荷電力特性)		Testing Circuitry		Figure A																																																				
Object																																																										
1. Graph				2. Values																																																						
<div><div>—△— Input Volt. 170V ---□--- Input Volt. 200V -○- Input Volt. 264V</div><div>Hold-Up Time [mS]</div><div>Load Power [W]</div></div> <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>				<table><tr><th rowspan="2">Load Power [W]</th><th colspan="3">Hold-Up Time [mS]</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>0.0</td><td>—</td><td>—</td><td>—</td></tr><tr><td>201.6</td><td>147</td><td>149</td><td>150</td></tr><tr><td>403.2</td><td>75</td><td>76</td><td>77</td></tr><tr><td>604.8</td><td>49</td><td>50</td><td>51</td></tr><tr><td>806.4</td><td>35</td><td>36</td><td>37</td></tr><tr><td>1008.0</td><td>27</td><td>28</td><td>29</td></tr><tr><td>1108.8</td><td>24</td><td>25</td><td>26</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></table>				Load Power [W]	Hold-Up Time [mS]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0.0	—	—	—	201.6	147	149	150	403.2	75	76	77	604.8	49	50	51	806.4	35	36	37	1008.0	27	28	29	1108.8	24	25	26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Load Power [W]	Hold-Up Time [mS]																																																									
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]																																																							
0.0	—	—	—																																																							
201.6	147	149	150																																																							
403.2	75	76	77																																																							
604.8	49	50	51																																																							
806.4	35	36	37																																																							
1008.0	27	28	29																																																							
1108.8	24	25	26																																																							
--	--	--	--																																																							
--	--	--	--																																																							
--	--	--	--																																																							
--	--	--	--																																																							

COSEL

Model

ADA1000F (ADA1000F-24)

Item

Instantaneous Interruption Compensation
(by Load Power)
瞬時停電保障 (負荷電力特性)

Object

1. Graph

—△—

Input Volt. 170V

---□---

Input Volt. 200V

---○---

Input Volt. 264V

Instantaneous Compensation Time [mS]

1000

100

10

1

0

400

800

1200

Load Power [W]	170V [mS]	200V [mS]	264V [mS]
201.6	117	129	139
403.2	68	69	73
604.8	48	49	50
806.4	33	35	36
1008.0	26	27	28
1108.8	23	23	24

Load Power [W]

2. Values

Load Power [W]	Time [mS]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.0	—	—	—
201.6	117	129	139
403.2	68	69	73
604.8	48	49	50
806.4	33	35	36
1008.0	26	27	28
1108.8	23	23	24
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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

LOREL

Model ADA1000F (ADA1000F-24)

Item Load Regulation
静的負荷変動

Object V1:+24V42A

Temperature 25°C
Testing Circuitry Figure A

1. Graph

—△— Input Volt. 170 V
---□--- Input Volt. 200 V
---○--- Input Volt. 264 V

2. Values

Load Current [A]	Output Voltage [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.0	24.064	24.064	24.063
8.0	24.048	24.047	24.047
16.0	24.044	24.043	24.043
24.0	24.040	24.039	24.039
32.0	24.035	24.034	24.033
40.0	24.030	24.029	24.029
42.0	24.028	24.028	24.028
46.2	24.026	24.025	24.025
—	—	—	—
—	—	—	—
—	—	—	—

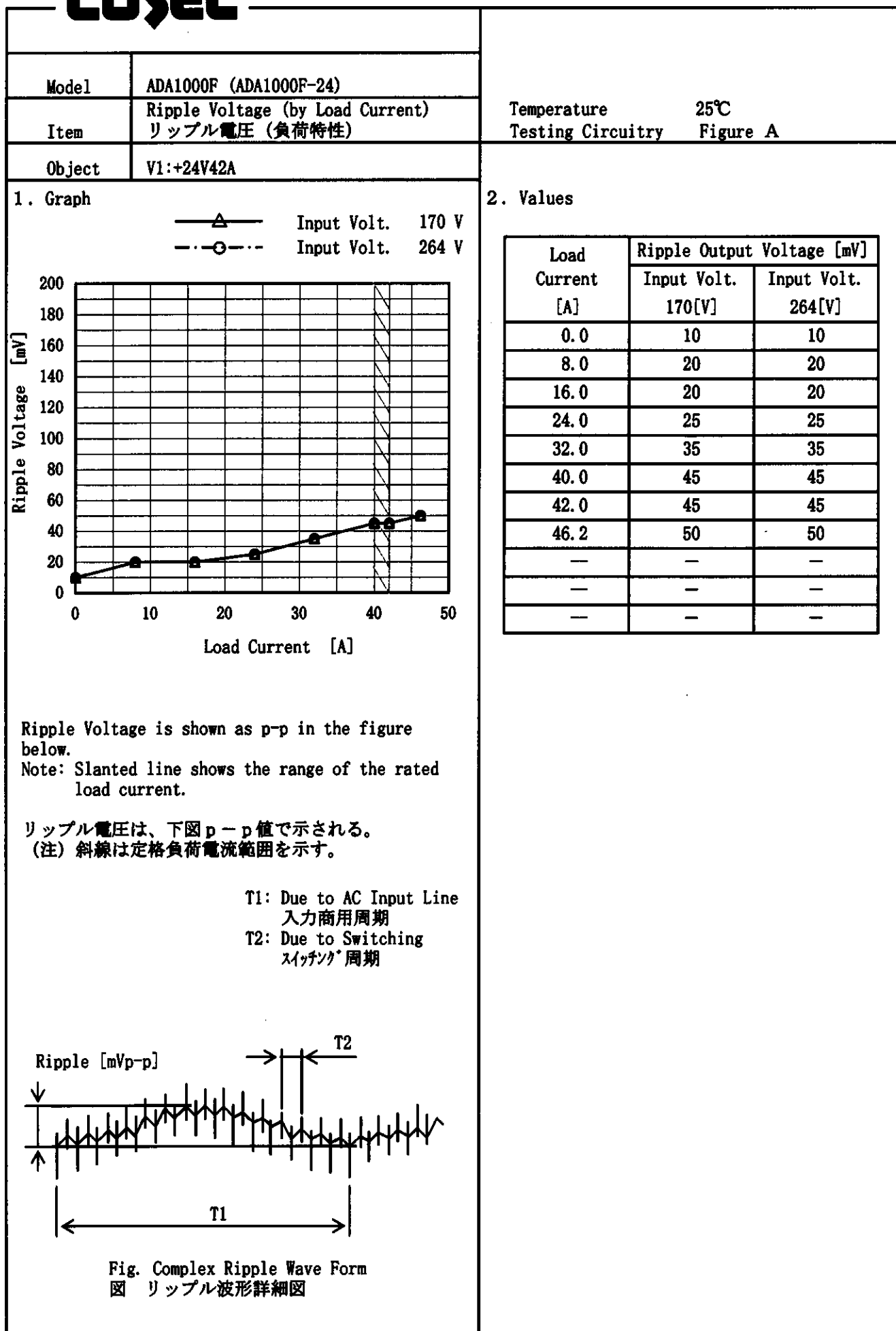
Output Voltage [V]

Load Current [A]

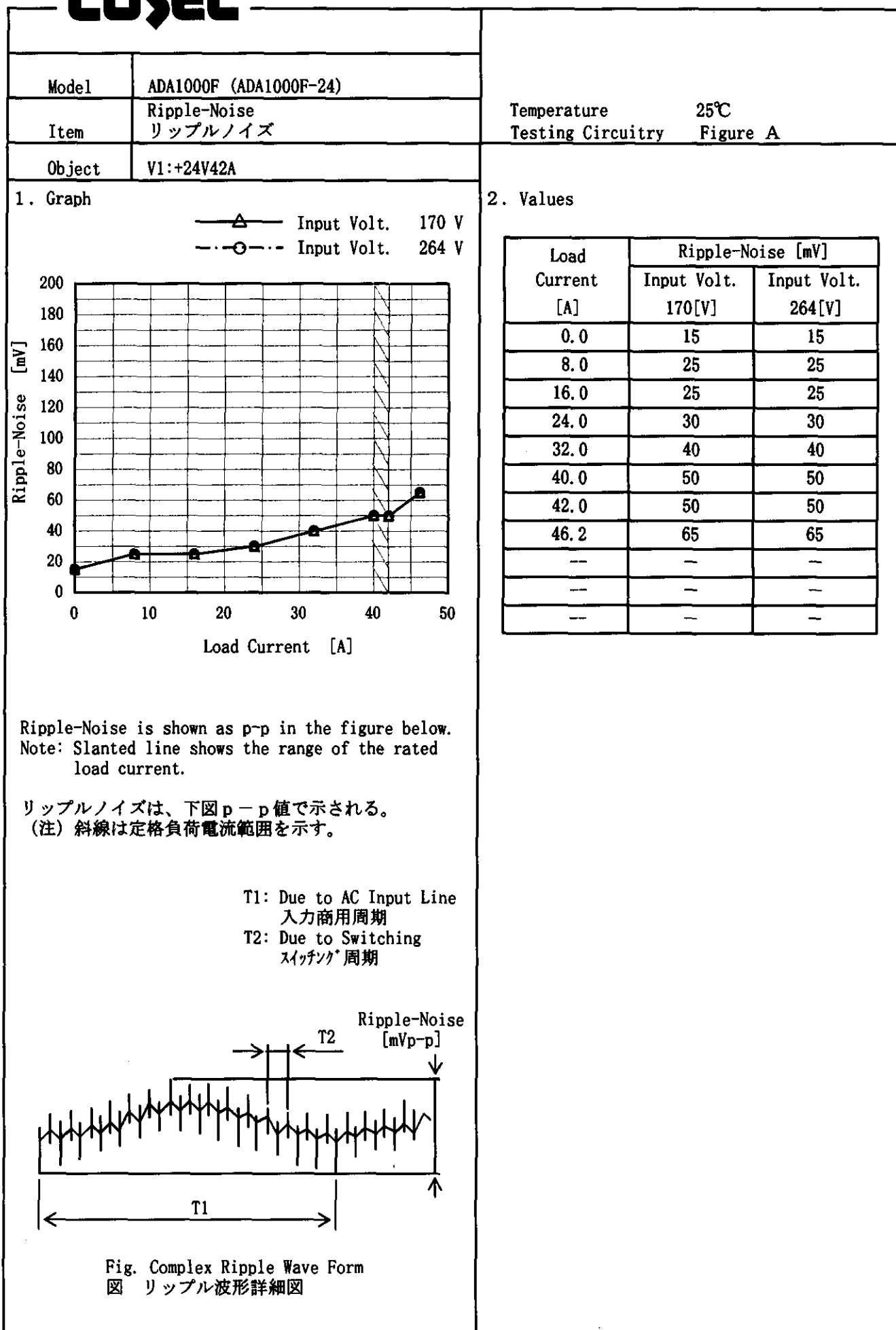
Note: Slanted line shows the range of the rated load current.

(注) 斜線は定格負荷電流範囲を示す。

COSEL



COSEL



COSEL

</

COSEL

Model

ADA1000F (ADA1000F-24)

Item

Overvoltage Protection
過電圧保護

Object

V1:+24V42A

1. Graph

—△—

Input Volt.

170 V

---□---

Input Volt.

200 V

---○---

Input Volt.

264 V

Operating Point [V]

Ambient Temperature [°C]

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

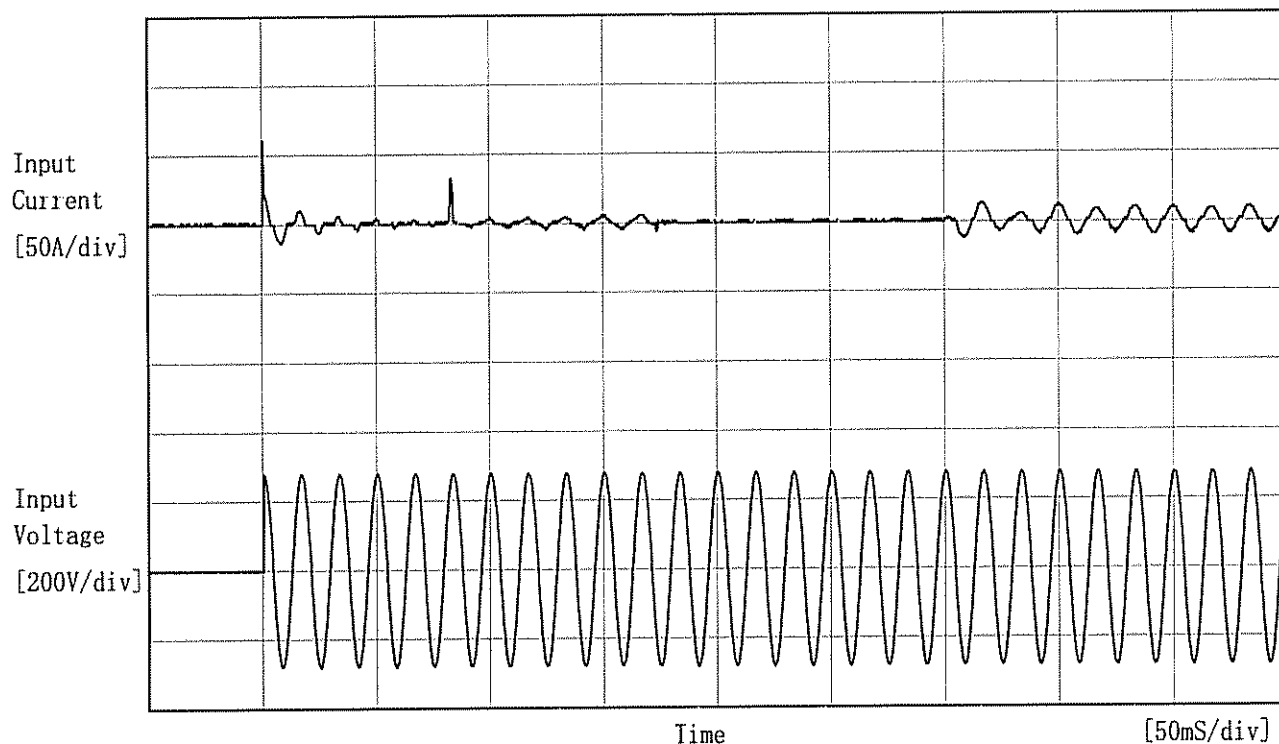
Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	32.41	32.41	32.41
-10	32.70	32.70	32.70
0	32.99	32.99	32.99
10	33.22	33.22	33.22
20	33.40	33.40	33.40
25	33.51	33.51	33.51
30	33.69	33.69	33.69
40	33.92	33.92	33.92
50	34.15	34.15	34.14
60	34.39	34.39	34.38
—	—	—	—

Testing Circuitry

Figure A

COSEL

Model	ADA1000F (ADA1000F-24)	Temperature	25°C
Item	Inrush Current 突入電流	Testing Circuitry	Figure A
Object	_____		



Input Voltage 200 V

Frequency 60 Hz

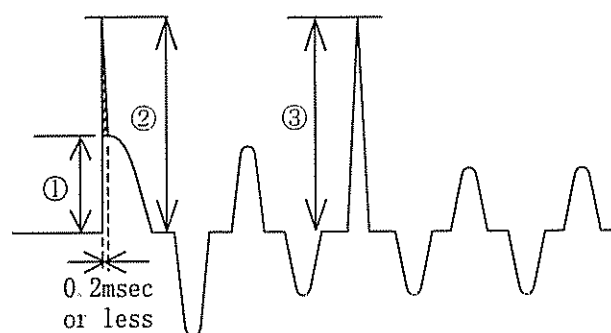
Load 100 %

Inrush Current

① 25.5 [A]

② 61.9 [A] (0.2msec or less)*1

③ 31.5 [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。

COSEL

Model	ADA1000F (ADA1000F-24)
Item	Dynamic Load Response 動的負荷変動
Object	V1: +24V42A

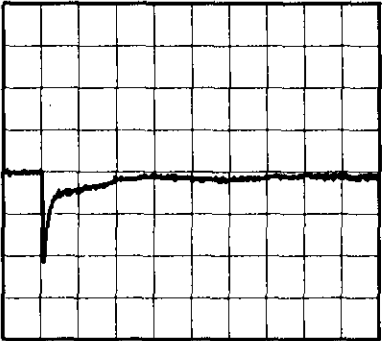
Temperature 25℃
Testing Circuitry Figure A

Input Volt. AC200 V
Cycle 1000 ms

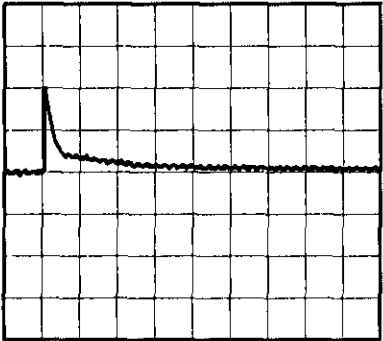


Min. Load (0A) \longleftrightarrow
Load 100% (42A)

100 mV/div



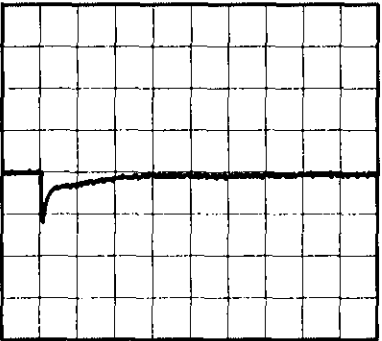
10 ms/div



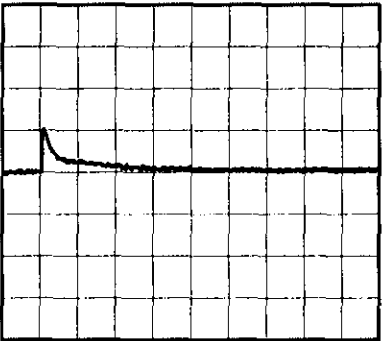
10 ms/div

Min. Load (0A) \longleftrightarrow
Load 50% (21A)

100 mV/div



10 ms/div



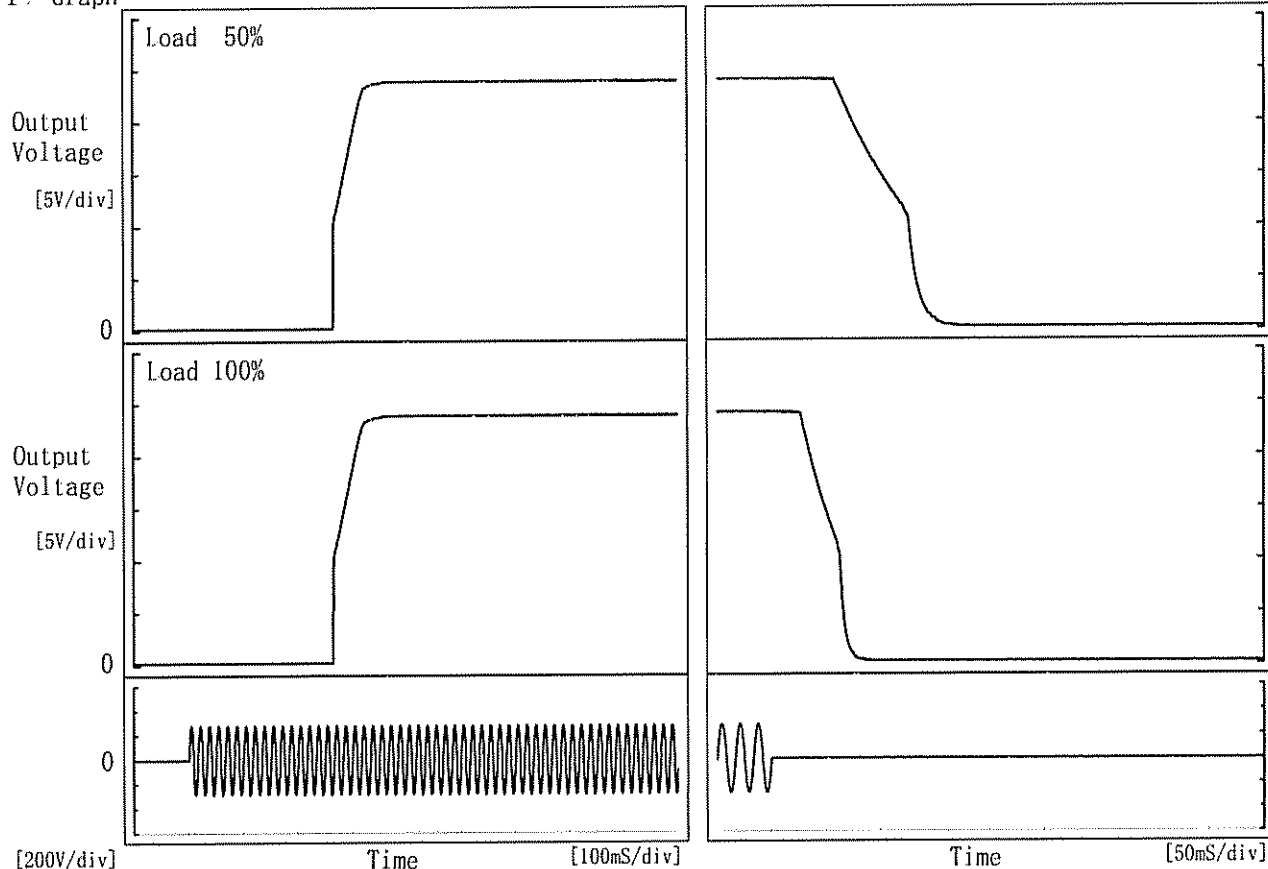
10 ms/div

COSEL

Model	ADA1000F (ADA1000F-24)	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	V1:+24V42A		

1. Graph

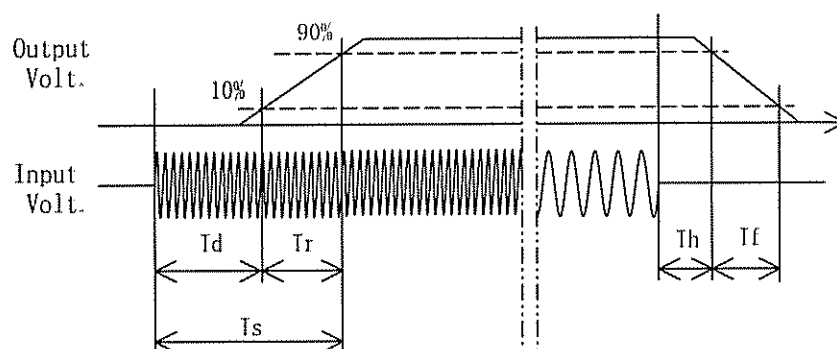
Input Volt. 200 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	266.0	48.0	314.0	66.5	72.0
100 %	265.5	48.0	313.5	31.8	38.0



Testing Circuitry Figure A

—△—	Input Volt.	170 V
---□---	Input Volt.	200 V
-·-○-·-	Input Volt.	264 V



Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	24.102	24.102	24.102
-10	24.092	24.092	24.091
0	24.084	24.083	24.083
10	24.074	24.074	24.073
20	24.069	24.068	24.068
25	24.065	24.065	24.064
30	24.058	24.057	24.056
40	24.044	24.043	24.043
50	24.022	24.021	24.019
60	23.988	23.987	23.986
—	—	—	—

COSEL

LOREL

Model	ADA1000F (ADA1000F-24)
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	V1:+24V42A

Testing Circuitry Figure A

1. Graph

---□--- Load 50%
—△— Load 100%

Input Voltage [V]

Ambient Temperature [°C]

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

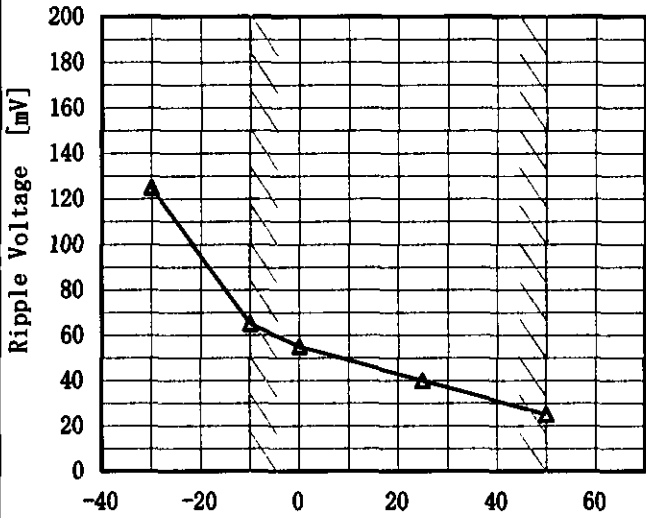
Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	66	66
-10	66	66
0	66	66
10	66	66
20	66	66
25	66	66
30	66	66
40	66	66
50	66	66
60	66	66
--	—	—

COSEL

COSEL

Model	ADA1000F (ADA1000F-24)
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)
Object	V1:+24V42A

1. Graph



Ambient Temperature [°C]

Input Volt. 200 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。

Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]
-30	125
-10	65
0	55
25	40
50	25
—	—
—	—
—	—
—	—
—	—
—	—

COSEL

LOREL

Model ADA1000F (ADA1000F-24)

Item Time Lapse Drift
経時ドリフト

Object V1:+24V42A

Temperature 25℃
Testing Circuitry Figure A

1. Graph

Output Voltage [V]

Time [H]

Input Volt. 200V

Load 100%

2. Values

Time since start [H]	Output Voltage [V]
0.0	24.043
0.5	24.022
1.0	24.022
2.0	24.022
3.0	24.023
4.0	24.023
5.0	24.023
6.0	24.023
7.0	24.023
8.0	24.023

- 21 -

BC-3463

COSEL

		Testing Circuitry Figure A
Model	ADA1000F (ADA1000F-24)	
Item	Output Voltage Accuracy 定電圧精度	
Object	V1:+24V42A	

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℃

Input Voltage : 170 ~ 264V

Load Current : 0 ~ 42A

* 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℃

入力電圧 : 170 ~ 264V

負荷電流 : 0 ~ 42A

* 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 [℃]	Input Voltage [V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	-10	170	0	24.118	±53	±0.2
Minimum Voltage	50	170	42	24.013		

COSEL

Model	ADA1000F (ADA1000F-24)				
Item	Leakage Current 漏洩電流			Temperature Testing Circuitry	25℃ Figure B
Object					

1. Results

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

Standards	Leakage Current [mA]		
	Input Volt.	Input Volt.	Input Volt.
	170 [V]	240 [V]	264 [V]
(B) IEC60950	0.32	0.46	0.51

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。

