

TEST DATA OF ADA750F

ADA750F-24
(200V INPUT)

Regulated DC power supply
Jan. 21, 2003

Approved by : Kuniaki Nagahara
Kuniaki Nagahara Design Manager

Prepared by : Katsumi Ishikawa
Katsumi Ishikawa Design Engineer

INPUT : AC 170~264V

OUTPUT : V1: 24V 31.5A

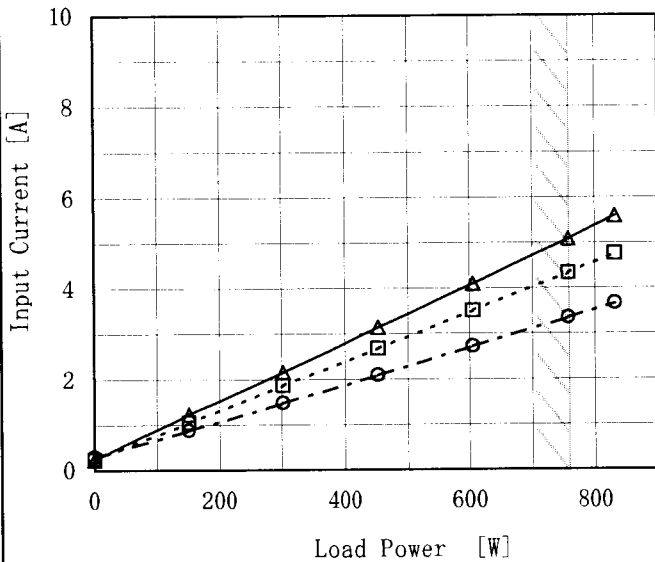
コーセル株式会社
COSEL CO.,LTD.

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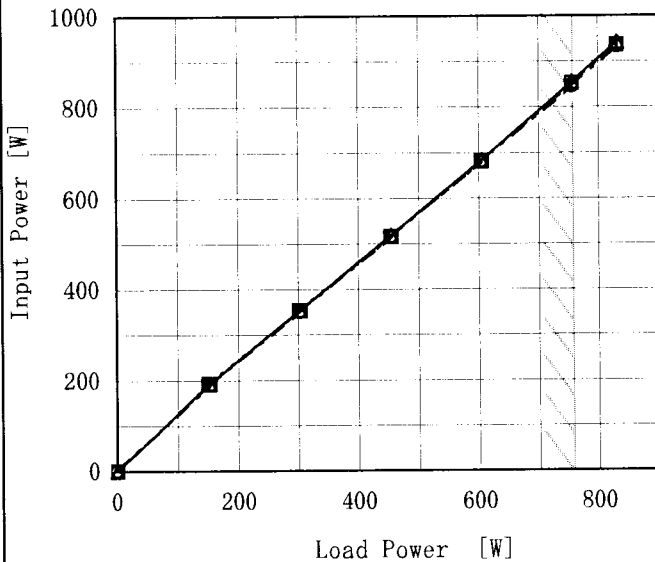
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Model		ADA750F (ADA750F-24)		Temperature25℃ Testing CircuitryFigure A																																
Item		Line Regulation 静的入力変動																																		
Object		V1:+24V31.5A																																		
1. Graph																																				
<div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>Load 50%</div><div>Load 100%</div></div></div> <div><div><div>Output Voltage [V]</div><div>24.30</div><div>24.20</div><div>24.10</div><div>24.00</div><div>23.90</div><div>23.80</div><div>23.70</div><div>23.60</div></div><div><div>24.30</div><div>24.20</div><div>24.10</div><div>24.00</div><div>23.90</div><div>23.80</div><div>23.70</div><div>23.60</div></div><div><div>140</div><div>180</div><div>220</div><div>260</div><div>300</div></div><div><div>Input Voltage [V]</div></div></div> <div><div>Note: Slanted line shows the range of the rated input voltage.</div><div><div>(注) 斜線は定格入力電圧範囲を示す。</div></div></div>																																				
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Item		Efficiency (by Load Power) 効率 (負荷電力特性)		Testing Circuitry		Figure A																																																				
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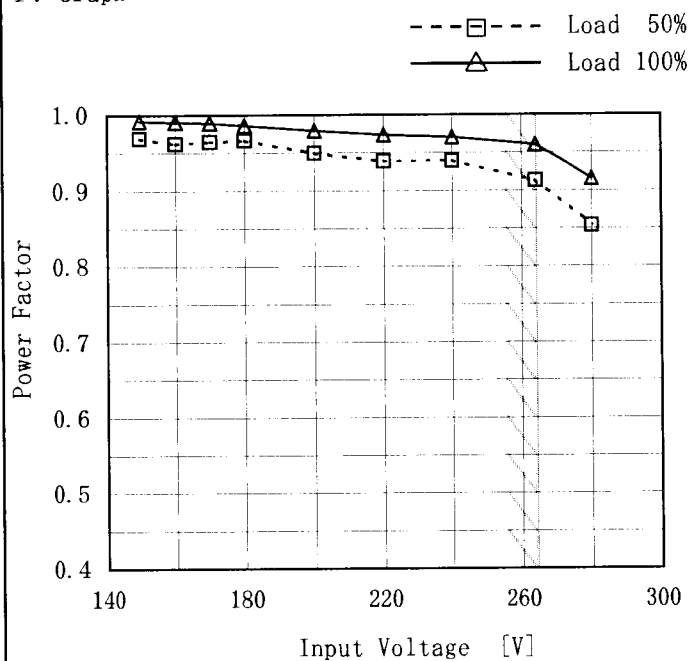
Model ADA750F (ADA750F-24)

Item Power Factor (by Input Voltage)
力率 (入力電圧特性)

Object

Temperature 25℃
Testing Circuitry Figure A

1. Graph



Note: Slanted line shows the range of the rated input voltage.

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2. Values

Input Voltage [V]	Power Factor	
	Load 50%	Load 100%
150	0.969	0.992
160	0.962	0.991
170	0.965	0.990
180	0.967	0.986
200	0.950	0.979
220	0.939	0.974
240	0.940	0.970
264	0.913	0.960
280	0.854	0.916

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Model		ADA750F (ADA750F-24)		Temperature		25℃	
Item		Power Factor (by Load Power) 力率 (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

Power Factor

1.0

0.9

0.8

0.7

0.6

0.5

0.4

0

200

400

600

800

Load Power [W]

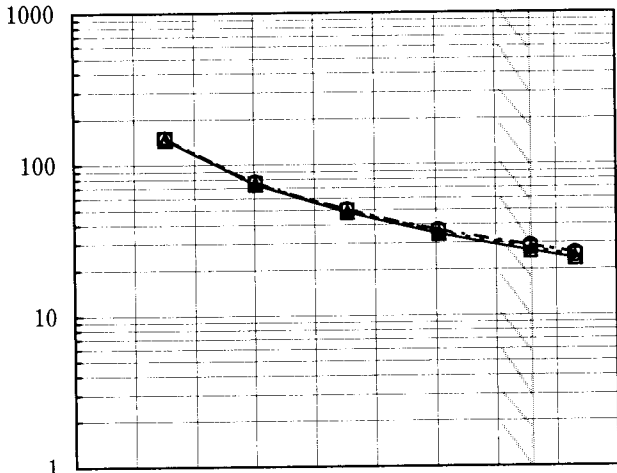
2. Values

Load Power [W]	Power Factor		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.0	0.576	0.498	0.401
151.2	0.919	0.914	0.822
302.4	0.970	0.947	0.898
453.6	0.972	0.963	0.933
604.8	0.980	0.970	0.948
756.0	0.990	0.980	0.957
831.6	0.992	0.982	0.963
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Note: Slanted line shows the range of the rated load power.

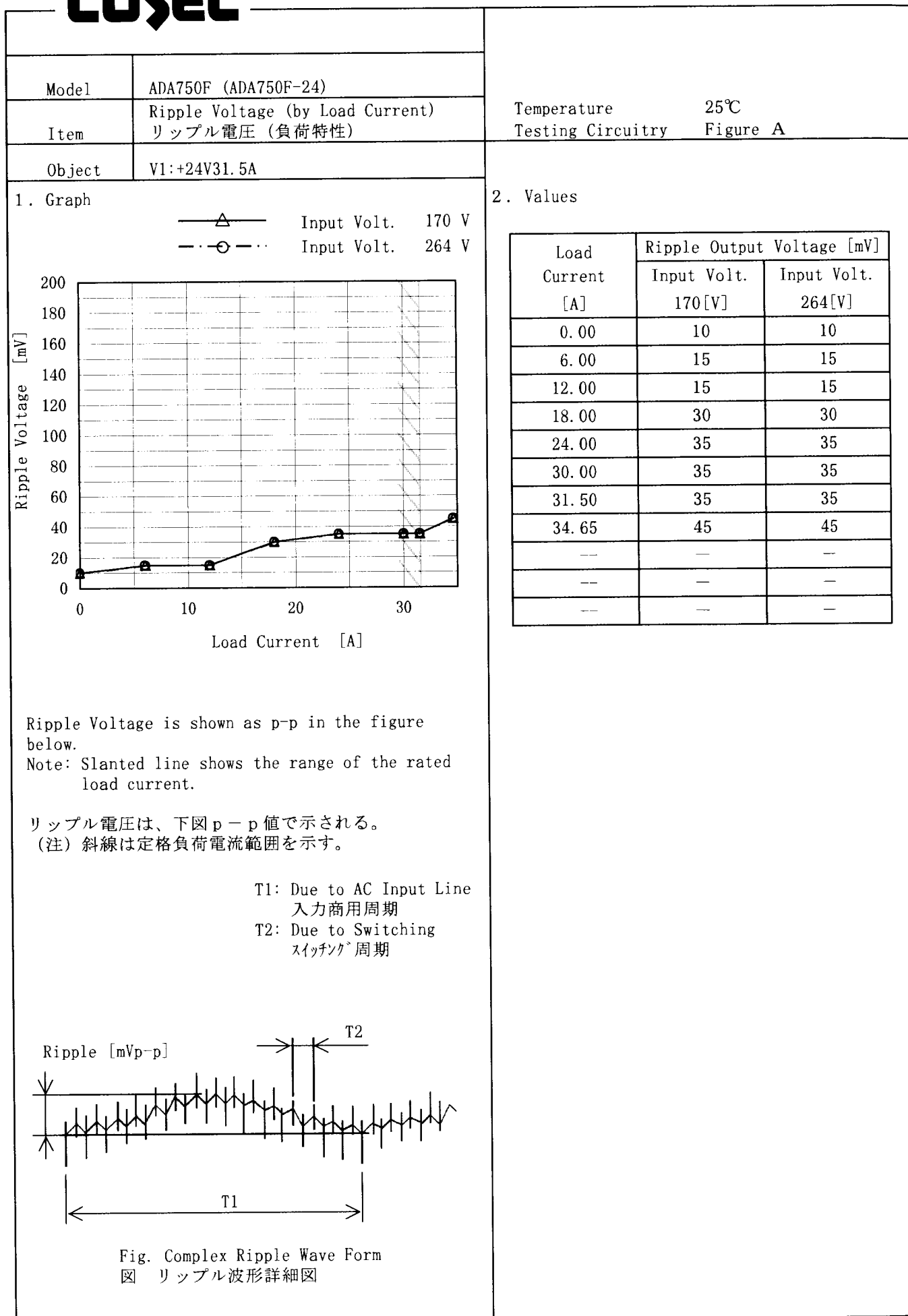
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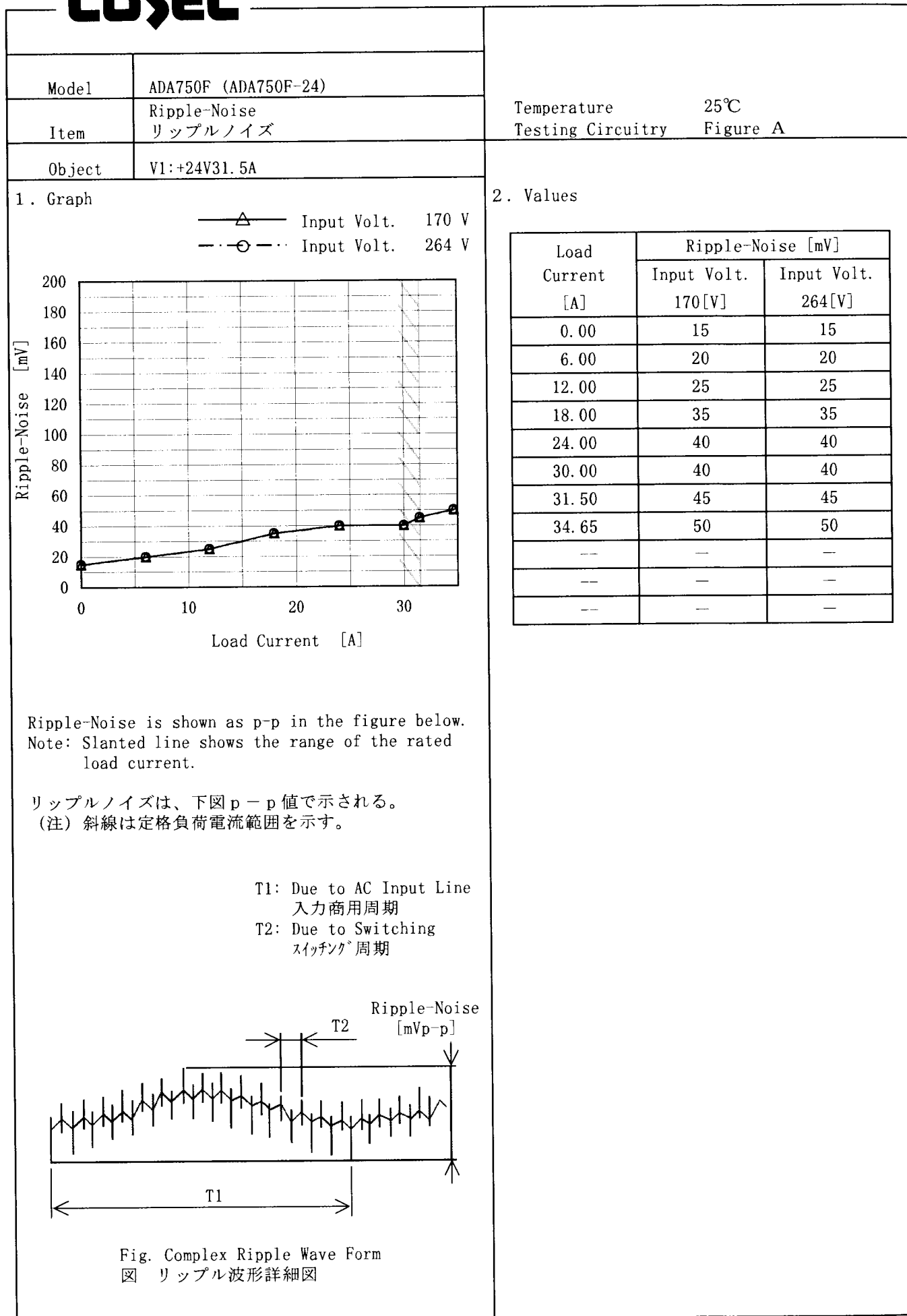
Model		ADA750F (ADA750F-24)		Temperature		25℃		
Item		Hold-Up Time (by Load Power) 出力保持時間 (負荷電力特性)		Testing Circuitry		Figure A		
Object								
1. Graph		<div>—△— Input Volt. 170V</div> <div>---□--- Input Volt. 200V</div> <div>---○--- Input Volt. 264V</div>		2. Values				
Hold-Up Time [mS]								

Model		ADA750F (ADA750F-24)		Temperature		25℃																																																				
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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<div><div>—△— Input Volt. 170V ---□--- Input Volt. 200V -·○-·- Input Volt. 264V</div><div><p>Instantaneous Compensation Time [mS]</p><p>Load Power [W]</p></div></div>				<table><tr><th rowspan="2">Load Power [W]</th><th colspan="3">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>151.2</td><td>158</td><td>178</td><td>180</td></tr><tr><td>302.4</td><td>72</td><td>86</td><td>90</td></tr><tr><td>453.6</td><td>40</td><td>49</td><td>62</td></tr><tr><td>604.8</td><td>39</td><td>35</td><td>45</td></tr><tr><td>756.0</td><td>32</td><td>34</td><td>36</td></tr><tr><td>831.6</td><td>30</td><td>31</td><td>30</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]	Time [mS]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0.0	—	—	—	151.2	158	178	180	302.4	72	86	90	453.6	40	49	62	604.8	39	35	45	756.0	32	34	36	831.6	30	31	30	--	—	—	—	--	—	—	—	--	—	—	—	--	—	—	—
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COSEL



COSEL

Model		ADA750F (ADA750F-24)		Temperature		25℃	
Item		Overcurrent Protection 過電流保護		Testing Circuitry		Figure A	
Object		V1:+24V31.5A					

1. Graph

Input Volt.

170 V

Input Volt.

200 V

Input Volt.

264 V

Output Voltage [V]

30

COSEL

Model		ADA750F (ADA750F-24)	
Item		Overvoltage Protection 過電圧保護	
Object		V1:+24V31.5A	

1. Graph

—△—

Input Volt.

170 V

---□---

Input Volt.

200 V

---○---

Input Volt.

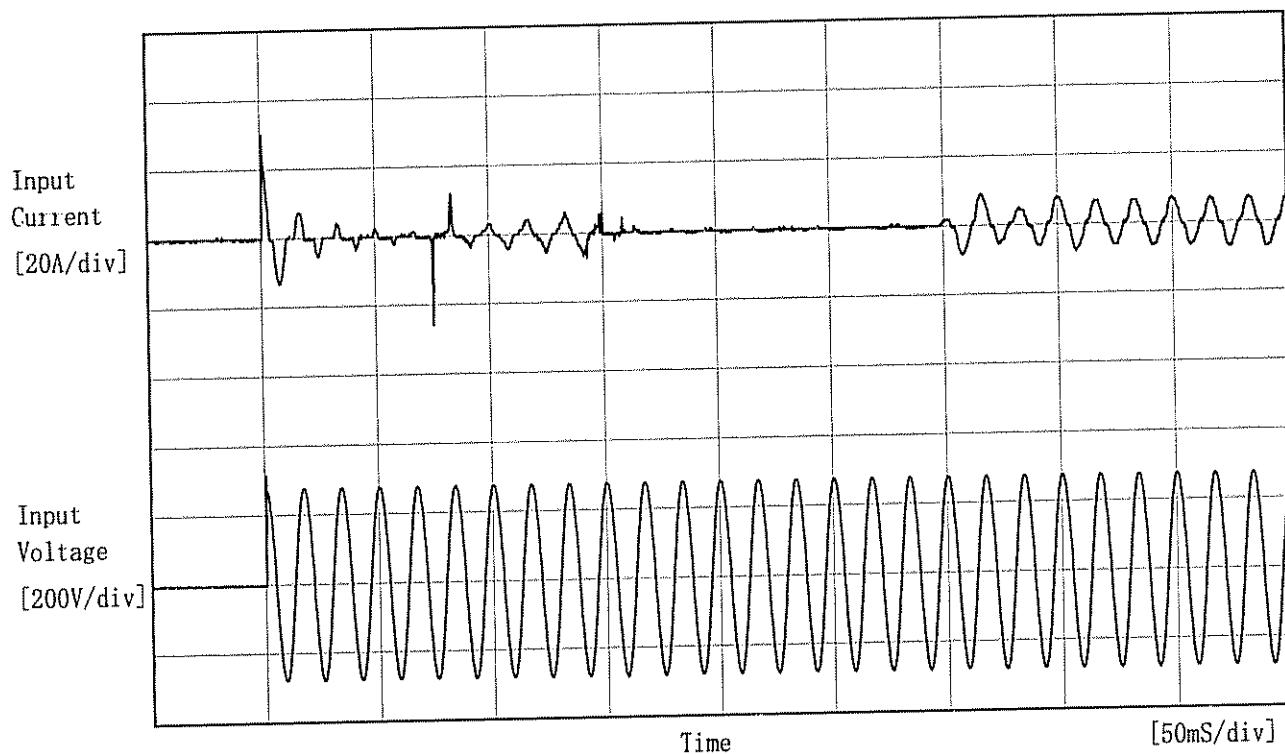
264 V

Operating Point [V]

<

COSEL

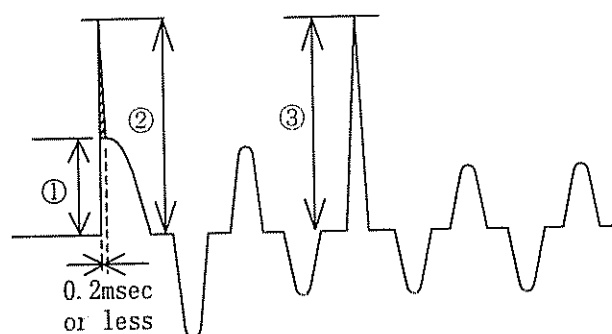
Model	ADA750F (ADA750F-24)	Temperature	25°C
Item	Inrush Current 突入電流	Testing Circuitry	Figure A
Object	_____		



Input Voltage 200 V
Frequency 60 Hz
Load 100 %

Inrush Current

- ① 25.2 [A]
- ② 30.1 [A] (0.2msec or less)*1
- ③ 25.8 [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	ADA750F (ADA750F-24)	Temperature	25℃
Item	Dynamic Load Response 動的負荷変動	Testing Circuitry	Figure A
Object	V1:+24V31.5A		

Input Volt. AC200 V

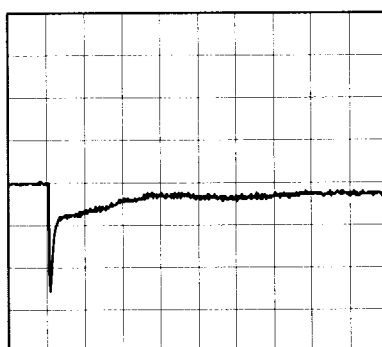
Cycle 1000 ms

Load Current

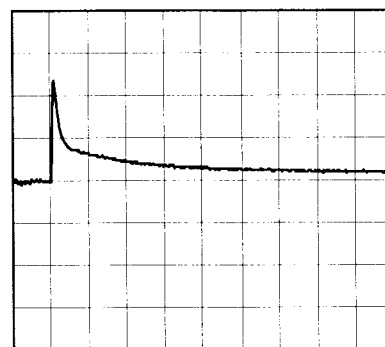
Min. Load (0A) \longleftrightarrow

Load 100% (31.5A)

100 mV/div



10 ms/div

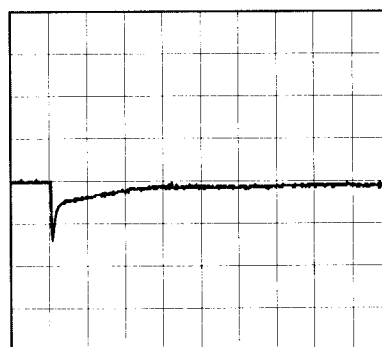


10 ms/div

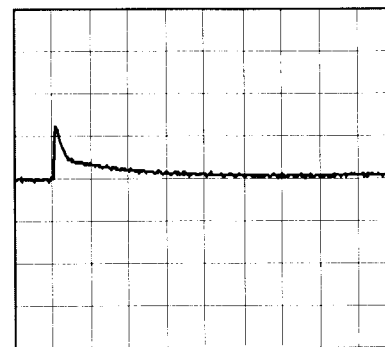
Min. Load (0A) \longleftrightarrow

Load 50% (15.75A)

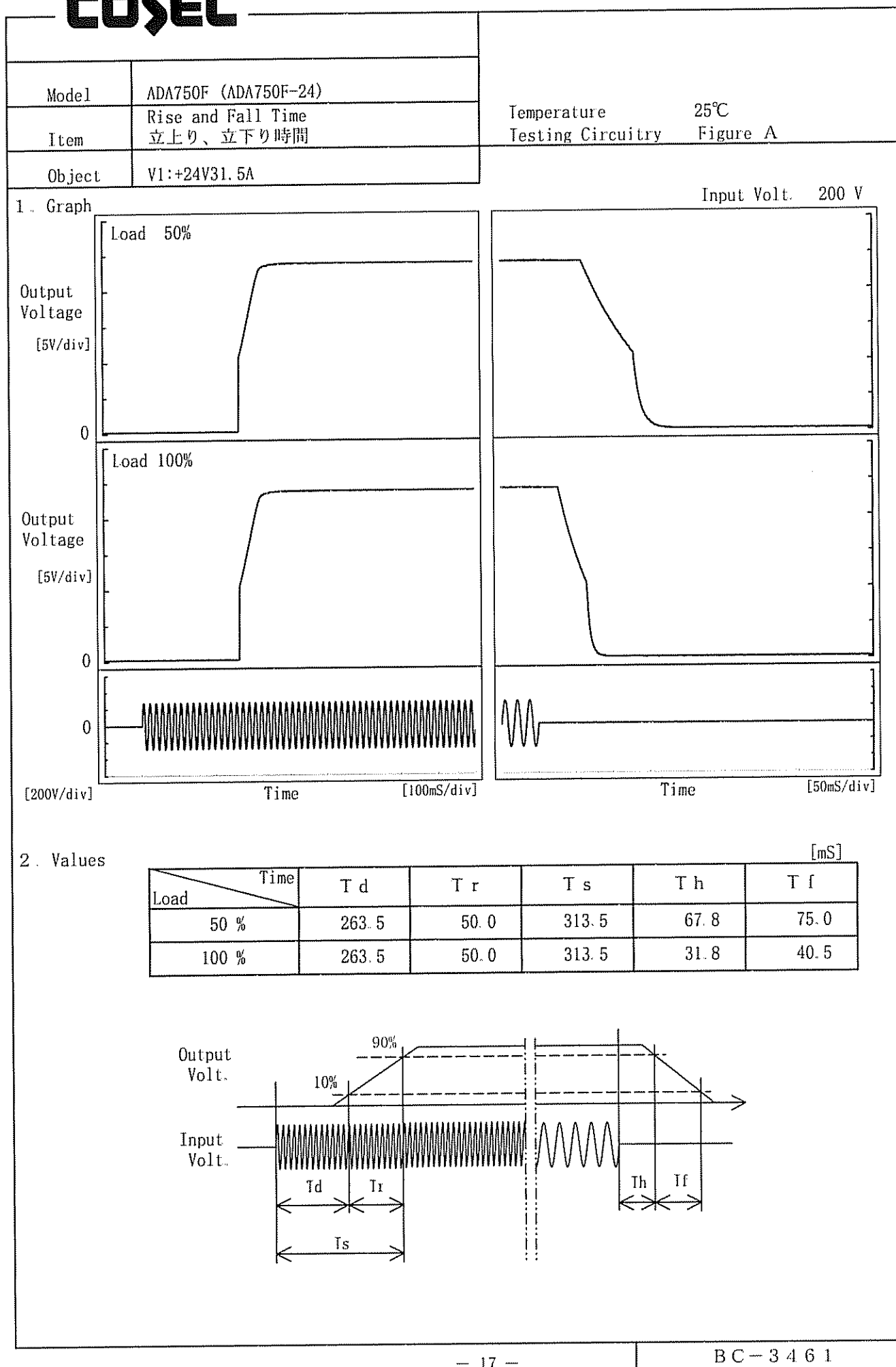
100 mV/div



10 ms/div



10 ms/div

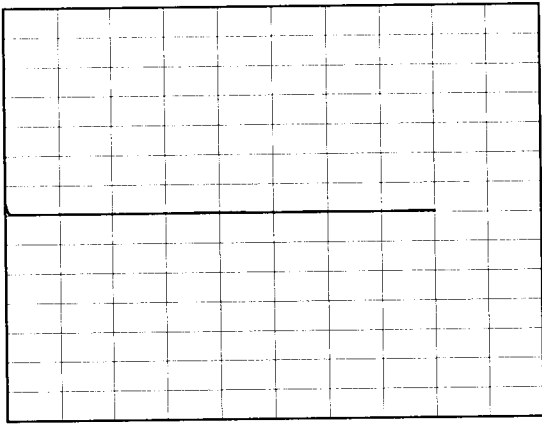
COSEL

Model		ADA750F (ADA750F-24)																																																																
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(注) 斜線は定格周囲温度範囲を示す。																																									

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: +24V31.5A		
1. Graph		2. Values	
<div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></d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Model	ADA750F (ADA750F-24)																								
Item	Time Lapse Drift 経時ドリフト	Temperature	25℃																						
Object	V1:+24V31.5A	Testing Circuitry	Figure A																						
1. Graph		2. Values																							
<div><div>Output Voltage [V]</div><div><div>Time [H]</div></div><div>Input Volt. 200V Load 100%</div></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>23.970</td></tr><tr><td>0.5</td><td>23.951</td></tr><tr><td>1.0</td><td>23.951</td></tr><tr><td>2.0</td><td>23.952</td></tr><tr><td>3.0</td><td>23.952</td></tr><tr><td>4.0</td><td>23.952</td></tr><tr><td>5.0</td><td>23.951</td></tr><tr><td>6.0</td><td>23.952</td></tr><tr><td>7.0</td><td>23.951</td></tr><tr><td>8.0</td><td>23.952</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	23.970	0.5	23.951	1.0	23.951	2.0	23.952	3.0	23.952	4.0	23.952	5.0	23.951	6.0	23.952	7.0	23.951	8.0	23.952
Time since start [H]	Output Voltage [V]																								
0.0	23.970																								
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4.0	23.952																								
5.0	23.951																								
6.0	23.952																								
7.0	23.951																								
8.0	23.952																								

		Testing Circuitry Figure A
Model	ADA750F (ADA750F-24)	
Item	Output Voltage Accuracy 定電圧精度	
Object	V1: +24V31.5A	

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℃

Input Voltage : 170 ~ 264V

Load Current : 0 ~ 31.5A

* 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 ~ 31.5A

* 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	25	170	0	24.013	±31	±0.1
Minimum Voltage	50	170	31.5	23.952		

Model		ADA750F (ADA750F-24)	
Item		Leakage Current 漏洩電流	Temperature 25℃ Testing Circuitry 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	0.39	0.56	0.61

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。

