



TEST DATA OF LCA100S-5 (100V INPUT)

Regulated DC Power Supply

Date : Aug. 25. 1999

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コーセル株式会社
COSEL CO., LTD.

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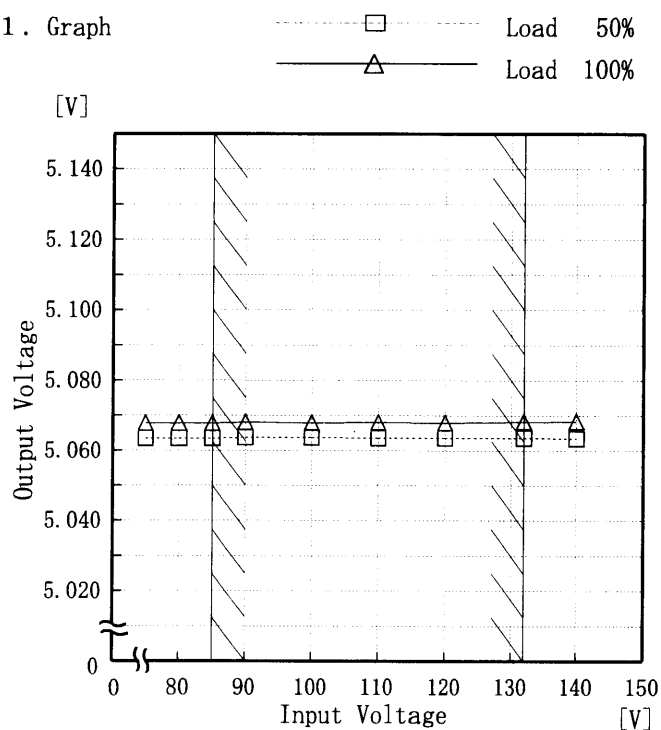
Model LCA100S-5

Item Line Regulation 静的入力変動

Object +5.0V20A

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]	Output Voltage [V]	
	Load 50%	Load 100%
75	5.063	5.068
80	5.063	5.068
85	5.064	5.068
90	5.064	5.068
100	5.064	5.068
110	5.064	5.068
120	5.064	5.068
132	5.064	5.068
140	5.064	5.068

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Model		LCA100S-5		Temperature		25℃																																																									
Item		Input Current (by Load Current) 入力電流 (負荷特性)		Testing Circuitry		Figure A																																																									
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<div><div><div>△</div><div>—</div><div>Input Volt. 85V</div></div><div><div>□</div><div>- - -</div><div>Input Volt. 100V</div></div><div><div>○</div><div>· · ·</div><div>Input Volt. 132V</div></div></div> <div><div><div>Input Current [A]</div><div>5</div><div>4</div><div>3</div><div>2</div><div>1</div><div>0</div></div><div><div>0</div><div>5</div><div>10</div><div>15</div><div>20</div><div>25</div></div><div><div>Load Current [A]</div></div></div>				<table><tr><td></td><td colspan="3">Input Current [A]</td></tr><tr><td>Load Current [A]</td><td>Input Volt. 85[V]</td><td>Input Volt. 100[V]</td><td>Input Volt. 132[V]</td></tr><tr><td>0</td><td>0.077</td><td>0.079</td><td>0.089</td></tr><tr><td>4</td><td>0.715</td><td>0.651</td><td>0.564</td></tr><tr><td>8</td><td>1.247</td><td>1.123</td><td>0.948</td></tr><tr><td>12</td><td>1.754</td><td>1.573</td><td>1.318</td></tr><tr><td>16</td><td>2.260</td><td>2.021</td><td>1.686</td></tr><tr><td>20</td><td>2.755</td><td>2.462</td><td>2.047</td></tr><tr><td>22</td><td>3.008</td><td>2.684</td><td>2.230</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><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>					Input Current [A]			Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0	0.077	0.079	0.089	4	0.715	0.651	0.564	8	1.247	1.123	0.948	12	1.754	1.573	1.318	16	2.260	2.021	1.686	20	2.755	2.462	2.047	22	3.008	2.684	2.230	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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Model		LCA100S-5	
Item		Input Power (by Load Current) 入力電力 (負荷特性)	
Output			

1. Graph

—△—

Input Volt. 85V

—□—

Input Volt. 100V

—○—

Input Volt. 132V

[W]

200

150

100

50

0

Load Current

0

5

10

15

20

25

Input Power

200

150

100

50

0

Load Current

0

5

10

15

20

25

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。

2. Values

Load Current [A]	Input Power [W]		
	Input Volt. 85 [V]	Input Volt. 100[V]	Input Volt. 132 [V]
0	2.19	2.59	3.64
4	26.49	27.12	28.85
8	50.44	50.83	52.30
12	75.20	75.30	76.50
16	101.60	101.30	101.80
20	128.70	127.90	127.80
22	143.00	141.90	141.40
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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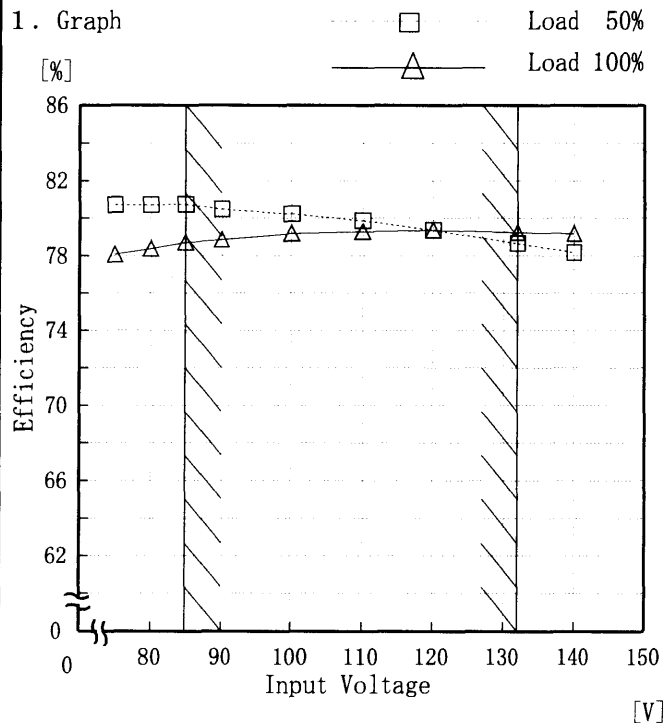
Model LCA100S-5

Item Efficiency 効率

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	80.7	78.1
80	80.7	78.4
85	80.7	78.7
90	80.5	78.9
100	80.2	79.2
110	79.9	79.3
120	79.4	79.4
132	78.7	79.2
140	78.2	79.2

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Model		LCA100S-5		Temperature		25℃	
Item		Efficiency (by Load Current) 効率 (負荷電流特性)		Testing Circuitry		Figure A	
Output		_____					
1. Graph				2. Values			

△

Input Volt. 85V

□

Input Volt. 100V

○

Input Volt. 132V

Efficiency

[%]

90

80

70

60

50

40

0

5

10

15

20

25

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。

Load Current [A]	Efficiency [%]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
4	76.3	74.7	70.3
8	80.2	79.6	77.5
12	80.6	80.5	79.3
16	79.8	80.0	79.7
20	78.7	79.2	79.3
22	78.0	78.6	78.9
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

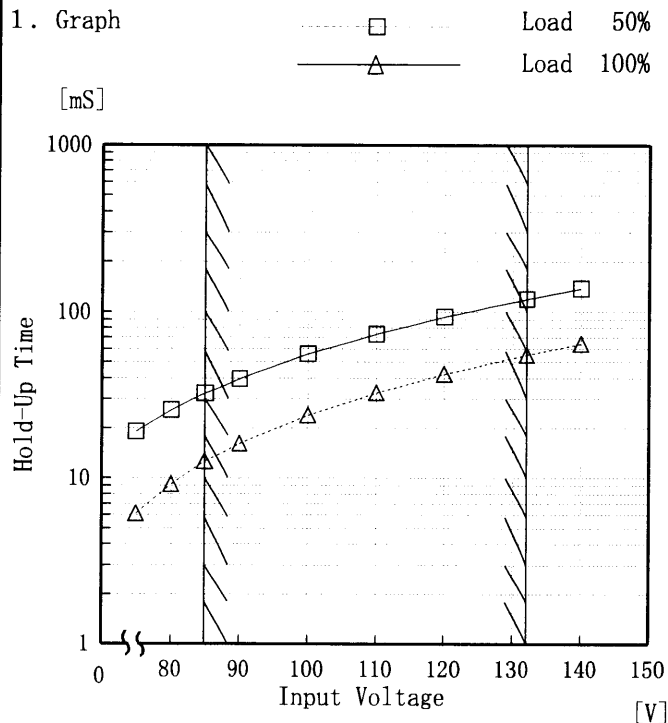
Model LCA100S-5

Item Hold-Up Time 出力保持時間

Object +5.0V20A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



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 input voltage.

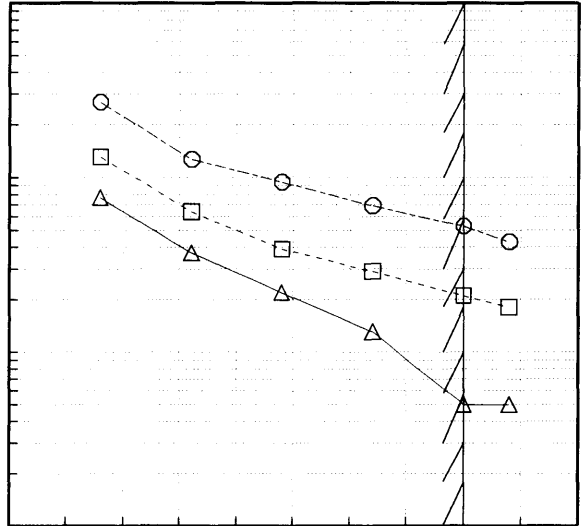
出力保持時間とは、入力電圧断から出力電圧が、定電圧精度の規格範囲を保持しているところまでの時間。

(注) 斜線は定格入力電圧範囲を示す。

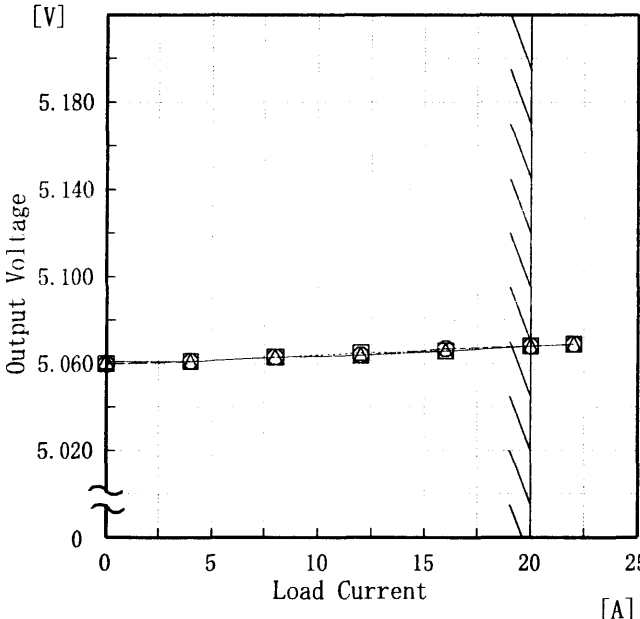
2. Values

Input Voltage [V]	Hold-Up Time [mS]	
	Load 50%	Load 100%
75	19	6
80	26	9
85	32	13
90	40	16
100	56	24
110	74	33
120	93	42
132	119	55
140	138	64

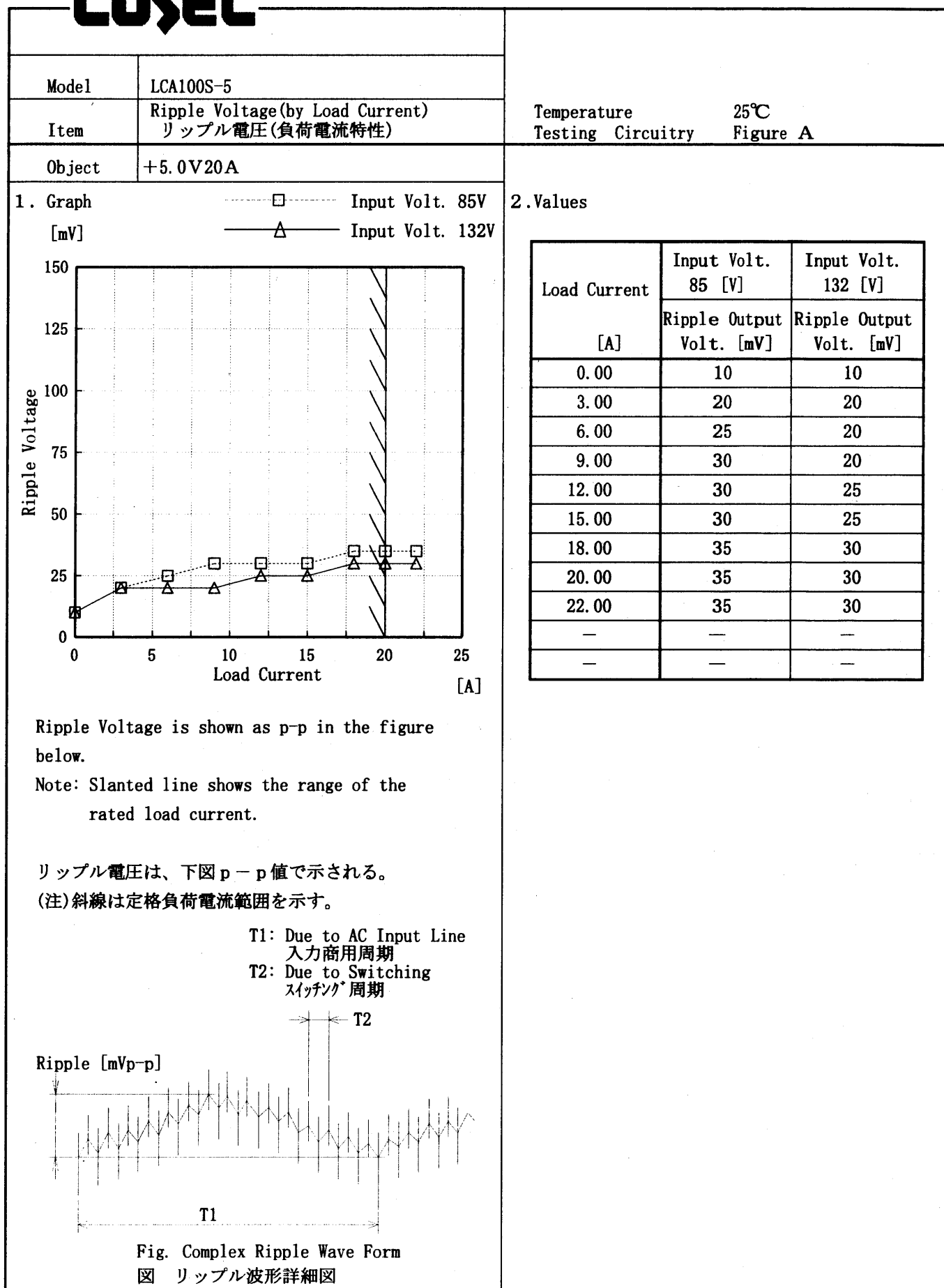
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Model		LCA100S-5		Temperature		25°C																																																				
Item		Instantaneous Interruption Compensation 瞬時停電保障		Testing Circuitry		Figure A																																																				
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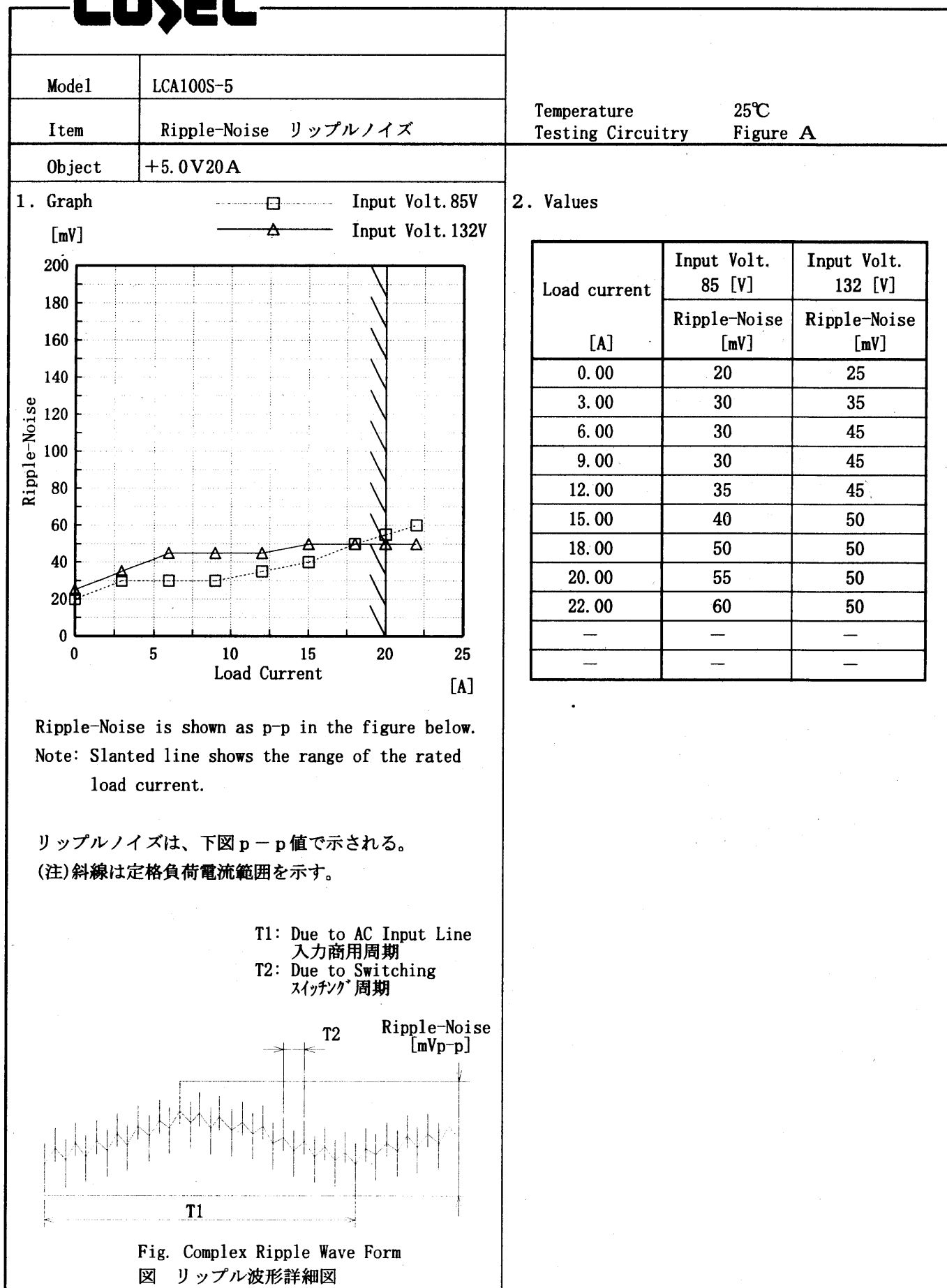
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Model		LCA100S-5		Temperature		25°C																																																
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Load Current [A]	Output Voltage [V]																																																					
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BC-4058

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Model		LCA100S-5	
Item		Overvoltage Protection 過電圧保護	
Object		+5.0V20A	
1. Graph		2. Values	

—△—

Input Volt. 85 V

—□—

Input Volt. 100 V

—○—

Input Volt. 132 V

Operating Point [V]

Ambient Temperature [°C]

Load 0%

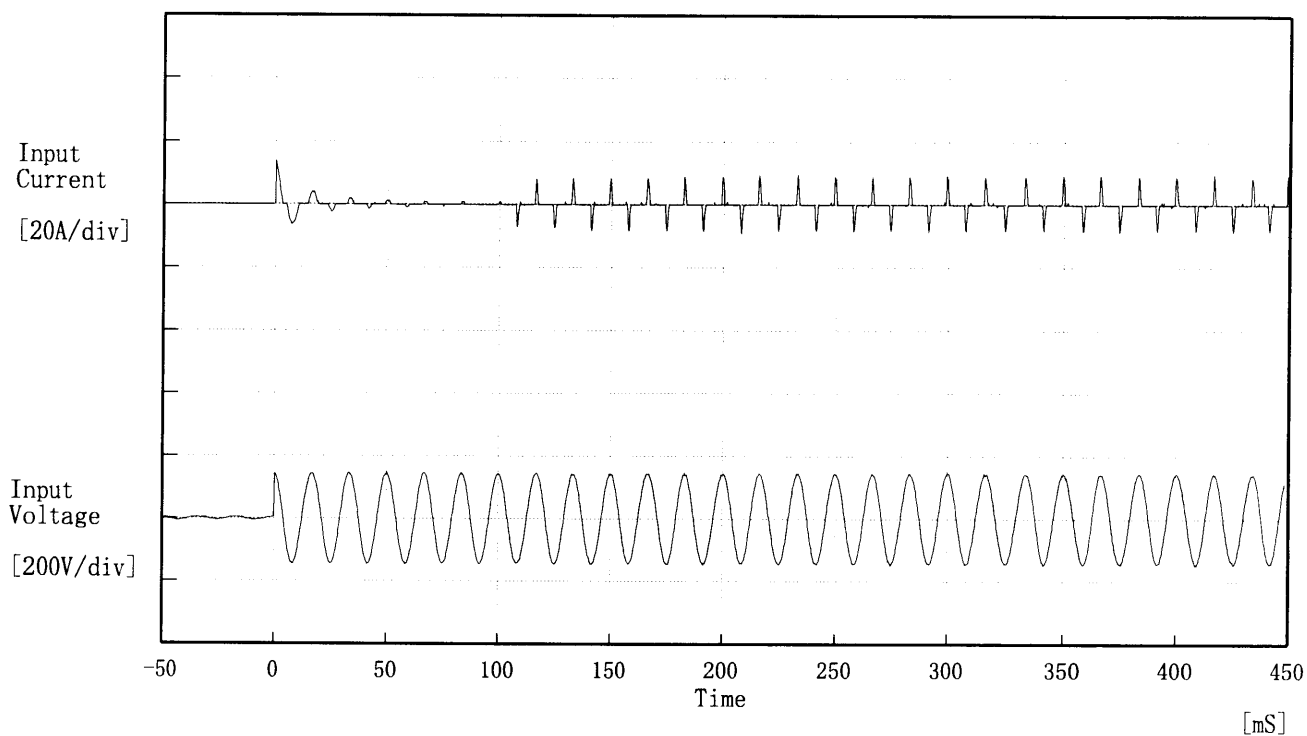
Note: Slanted line shows the range of the rated ambient temperature.

(注) 斜線は定格周囲温度範囲を示す。

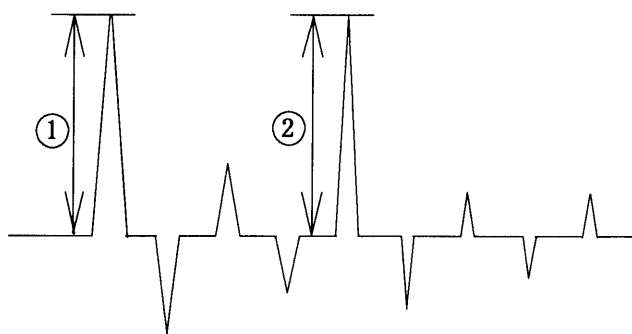
Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	6.65	6.59	6.59
-10	6.59	6.59	6.59
0	6.59	6.59	6.59
10	6.59	6.59	6.64
20	6.59	6.59	6.63
25	6.59	6.59	6.63
30	6.59	6.59	6.63
40	6.59	6.59	6.63
50	6.59	6.59	6.62
60	6.59	6.58	6.62
—	—	—	—

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Model	LCA100S-5	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current 突入電流	
Object		



Input Voltage 100 V
Frequency 60 Hz
Load 100 %
Inrush Current
① 13.58 [A]
② 9.58 [A]



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Model	LCA100S-5	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	+5.0V20A	

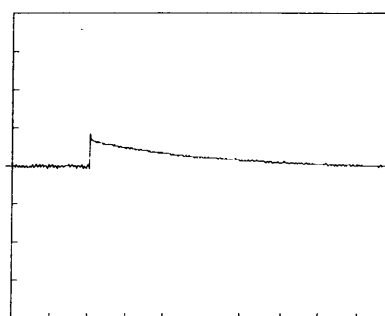
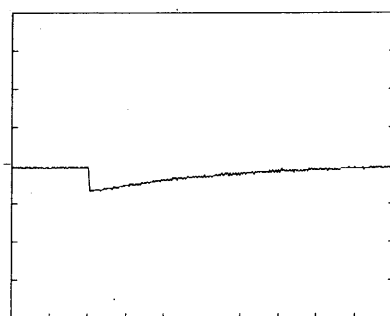
Input Volt. 100 V

Cycle 1000 mS

Load Current

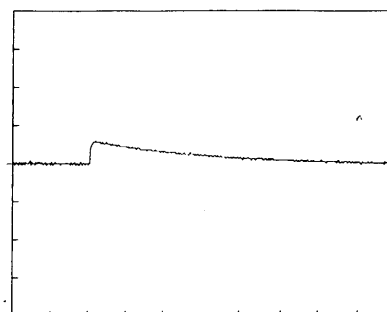
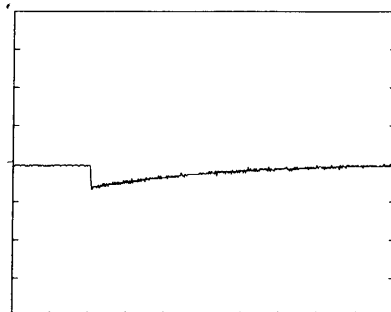
Load 0% ↔

Load 100 %



Load 0% ↔

Load 50 %



100 mV/div

10 mS/div

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Model

LCA100S-5

Item

Rise and Fall Time 立上り、立下り時間

Temperature

25°C

Testing Circuitry

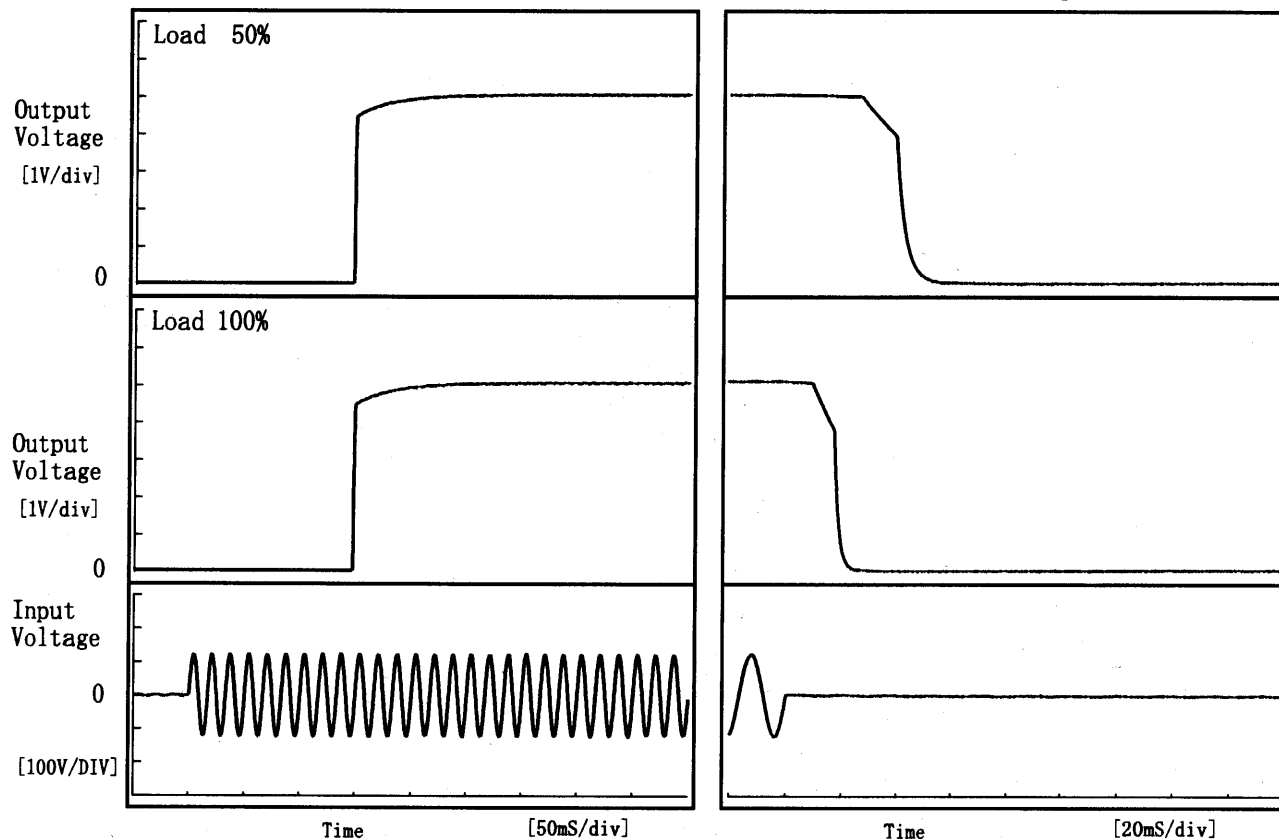
Figure A

Object

+5.0V20A

1. Graph

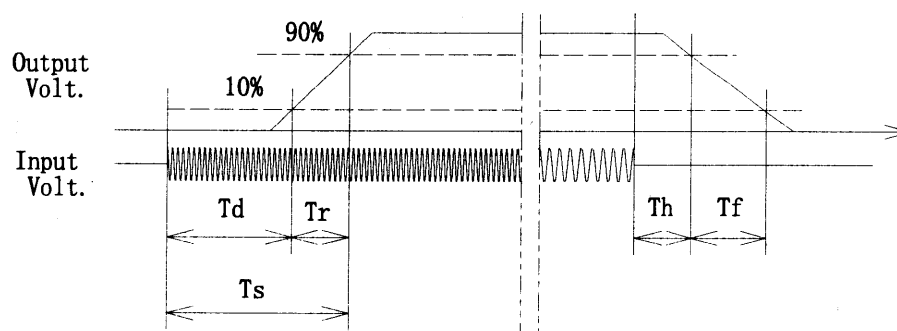
Input Volt. 85 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	147.3	5.5	152.8	32.9	13.5
100 %	147.3	5.5	152.8	12.6	8.3



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Model		LCA100S-5	
Item		Ambient Temperature Drift 周囲温度変動	
Object		+5.0V20A	

1. Graph

△

Input Volt. 85V

□

Input Volt. 100V

○

Input Volt. 132V

[V]

5.210

5.170

5.130

5.090

5.050

5.010

4.970

0

Output Voltage

-30

-10

10

30

50

70

Ambient Temperature

[°C]

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

Temperature	Output Voltage		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	5.079	5.079	5.079
-10	5.077	5.077	5.077
0	5.075	5.075	5.075
10	5.073	5.073	5.073
20	5.070	5.069	5.070
25	5.068	5.068	5.068
30	5.066	5.067	5.067
40	5.062	5.062	5.063
50	5.058	5.058	5.058
60	5.053	5.053	5.053
—	—	—	—

COSEL

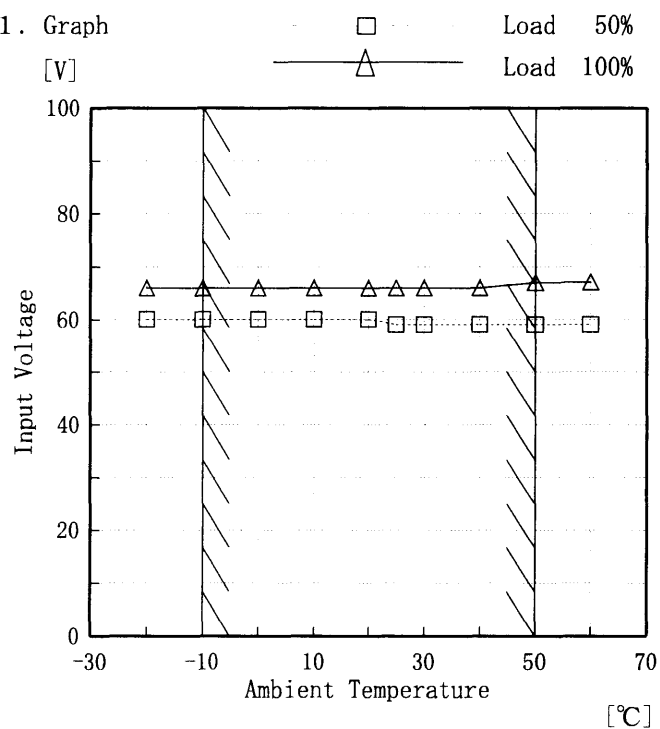
Model LCA100S-5

Item Minimum Input Voltage for Regulated Output Voltage
最低レギュレーション電圧

Object +5.0V20A

Testing Circuitry Figure A

1. Graph



2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	60	66
-10	60	66
0	60	66
10	60	66
20	60	66
25	59	66
30	59	66
40	59	66
50	59	67
60	59	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。

COSEL

Model		LCA100S-5	Testing Circuitry	Figure A																																		
Item		Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)																																				
Object		+5.0V20A																																				
1. Graph		<div><div>□ Load 50%</div><div>—△— Load 100%</div></div> <p>Input Volt. 100 V</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>	2. Values																																			
		<table><tr><th>Ambient Temp. [°C]</th><th>Load 50% Ripple Output Volt. [mV]</th><th>Load 100% Ripple Output Volt. [mV]</th></tr><tr><td>-20</td><td>45</td><td>60</td></tr><tr><td>-10</td><td>40</td><td>50</td></tr><tr><td>0</td><td>35</td><td>45</td></tr><tr><td>10</td><td>30</td><td>40</td></tr><tr><td>20</td><td>30</td><td>35</td></tr><tr><td>25</td><td>25</td><td>35</td></tr><tr><td>30</td><td>25</td><td>30</td></tr><tr><td>40</td><td>25</td><td>30</td></tr><tr><td>50</td><td>25</td><td>30</td></tr><tr><td>60</td><td>20</td><td>30</td></tr><tr><td>—</td><td>—</td><td>—</td></tr></table>	Ambient Temp. [°C]	Load 50% Ripple Output Volt. [mV]	Load 100% Ripple Output Volt. [mV]	-20	45	60	-10	40	50	0	35	45	10	30	40	20	30	35	25	25	35	30	25	30	40	25	30	50	25	30	60	20	30	—	—	—
Ambient Temp. [°C]	Load 50% Ripple Output Volt. [mV]	Load 100% Ripple Output Volt. [mV]																																				
-20	45	60																																				
-10	40	50																																				
0	35	45																																				
10	30	40																																				
20	30	35																																				
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60	20	30																																				
—	—	—																																				

COSEL

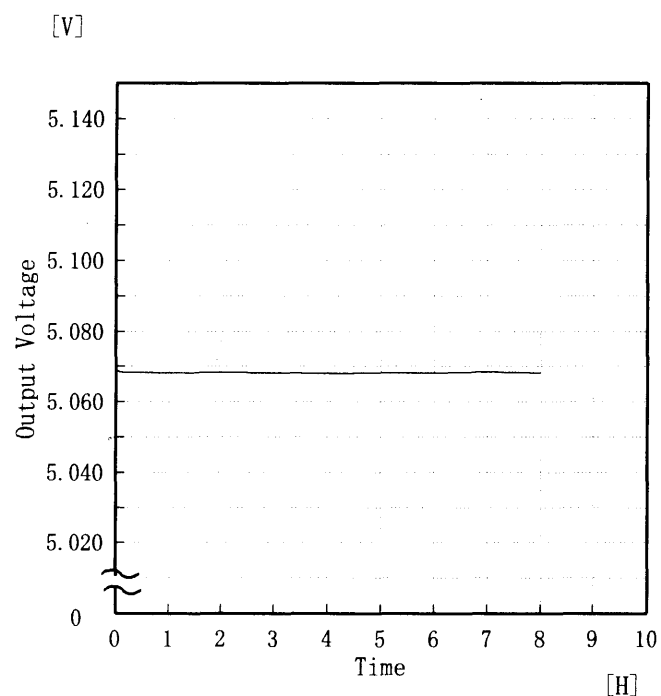
Model LCA100S-5

Item Time Lapse Drift 経時ドリフト

Object +5.0V20A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



Input Volt. 100V

Load 100%

2. Values

Time since start [H]	Output Voltage [V]
0.0	5.069
0.5	5.068
1.0	5.068
2.0	5.068
3.0	5.068
4.0	5.068
5.0	5.068
6.0	5.068
7.0	5.068
8.0	5.068

COSEL

Model		LCA100S-5	Testing Circuitry Figure A
Item		Output Voltage Accuracy 定電圧精度	
Object		+5.0V20A	

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 : 85~132 V

Load Current : 0~20 A

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

* Output Voltage Accuracy (Ration) = $\frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$

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 85~132 V

負荷電流 0~20 A

* 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) = $\frac{\text{変動値}}{\text{定格出力電圧}} \times 100$

Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy (Ration) [%]
Maximum Voltage	-10	100	20	5.077	±14	±0.3
Minimum Voltage	50	85	0	5.049		

COSEL

LOREL

		Testing Circuitry Figure A
Model	LCA100S-5	
Item	Condensation 結露特性	
Object	+5.0V20A	

1. Condensation test

Testing procedure is as follows.

① Keeping and cooling the unit in a tank at -10℃ for an hour with the input off.

② Taking it out of the tank and dewing itself in a room where the temperature is 25℃ and the humidity is 40%RH.

③ Testing electrical characteristics of the unit to confirm there be no fault.

1. 結露特性試験

入力を切った状態で、恒温槽で－10℃に冷却しておき、約1時間後に恒温槽から取り出し、室温25℃、湿度40%RHの状態におき結露させ、その電気的特性の測定を行い、異常のないことを確認する。

2. Values

Item	Data	Testing Conditions
Output Voltage [V]	5.068	Input Volt. : 100V, Load Current:20A
Line Regulation [mV]	6	Input Volt. : 85～132V, Load Current:20A
Load Regulation [mV]	11	Input Volt. : 100V, Load Current:0～20A

-21-

BC-4058

COSEL

Model	LCA100S-5	Temperature	25℃
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) DENTORI	0.18	0.22	0.32
(B) IEC60950	0.20	0.24	0.32

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 230 [V]	Input Volt. 264 [V]
(B) IEC60950	—	—	—

2. Condition

Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.

交流入力 of 両相について測定し、その大きい方を漏洩電流測定値とする。

COSEL

Model	LCA100S-5	Temperature Testing Circuitry	25°C Figure C
Item	Line Noise Tolerance 入力雑音耐量		
Object	+5.0V20A		

1. Results

Pulse Width [nS]	MODE	No protection failure should occur 保護回路の誤動作がない	DC-like Regulation of Output Voltage 出力電圧の直流的変動
50	COMMON	OK	no fluctuation
	NORMAL	OK	no fluctuation
1000	COMMON	OK	no fluctuation
	NORMAL	OK	no fluctuation

2. Conditions

Input Voltage : 100 V
 Pulse Voltage : 2000 V
 Pulse Cycle : 10 mS
 Pulse Input Duration : 1 min. or more
 Load : 100 %

COSEL

Model	LCA100S-5	Temperature	25°C
Item	Conducted Emission 雑音端子電圧	Testing Circuitry	Figure D
Object			

1. Graph

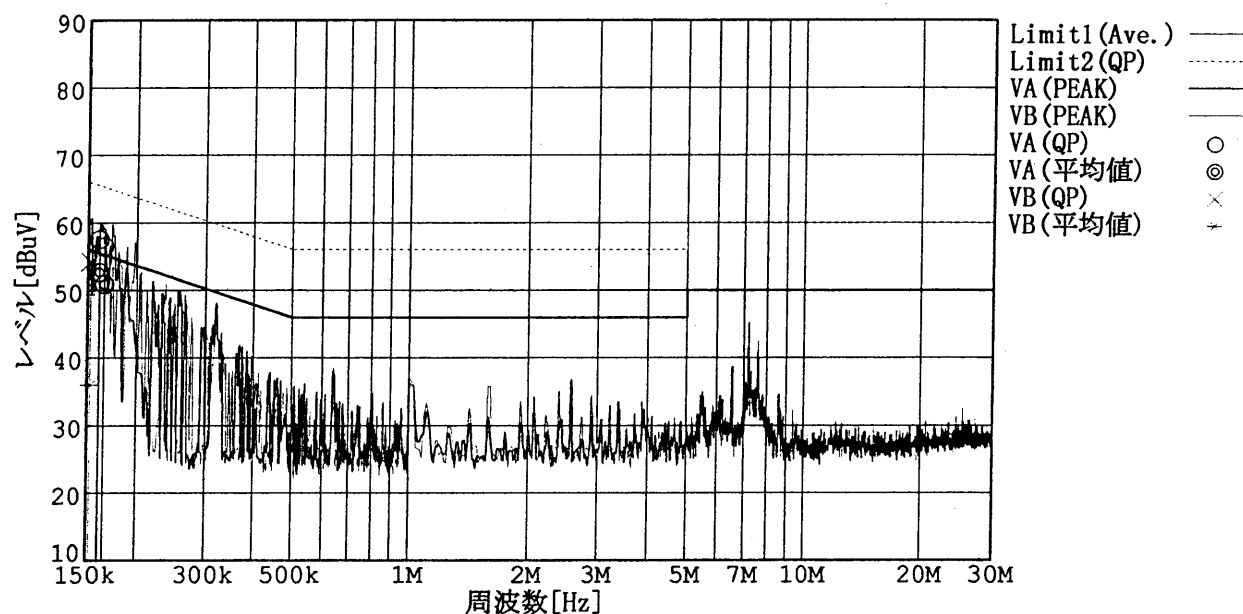
Remarks

Input Volt. 100 V (VCCI Class B)
120 V (FCC Class B)

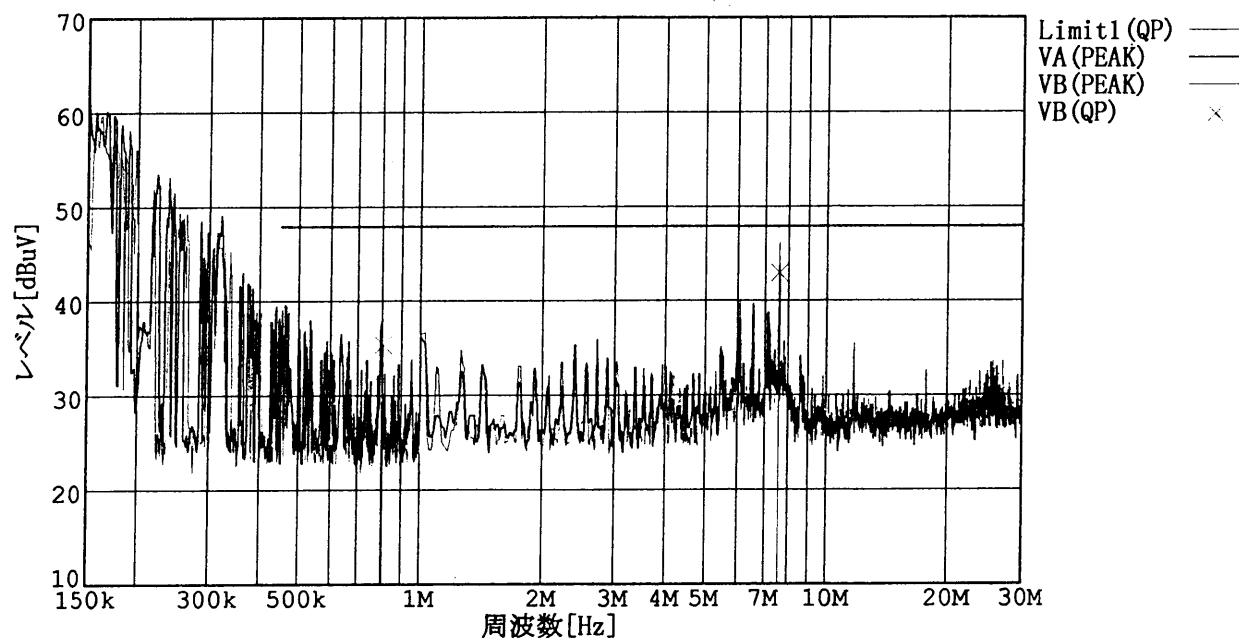
Load 100 %

規格 1 : [VCCI] Class B(平均値)

規格 2 : [VCCI] Class B(QP)



規格 1 : [FCC Part15] Class B



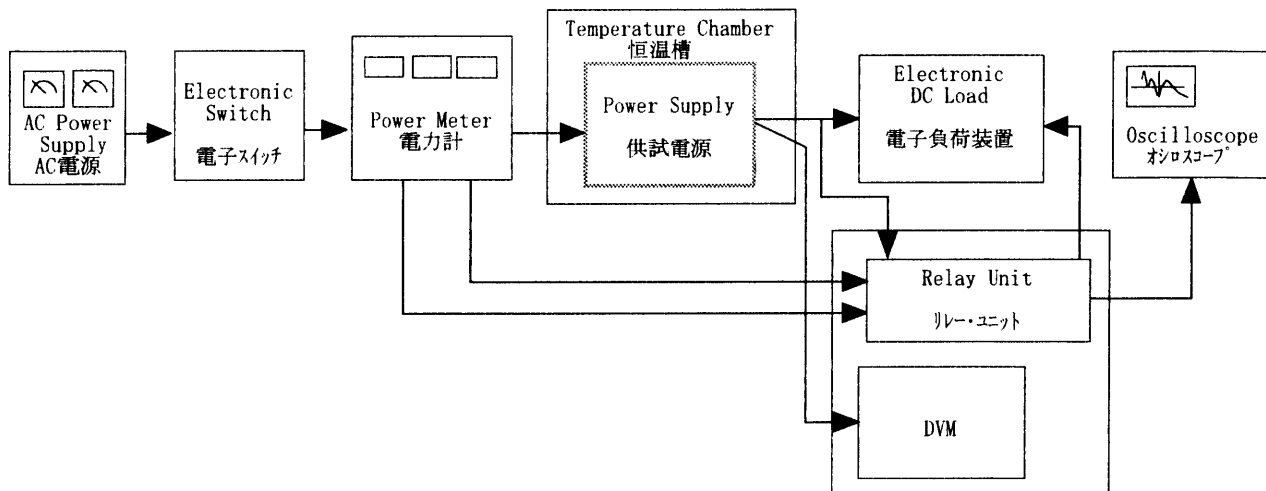


Figure A

Data Acquisition/Control Unit
データ集録システム

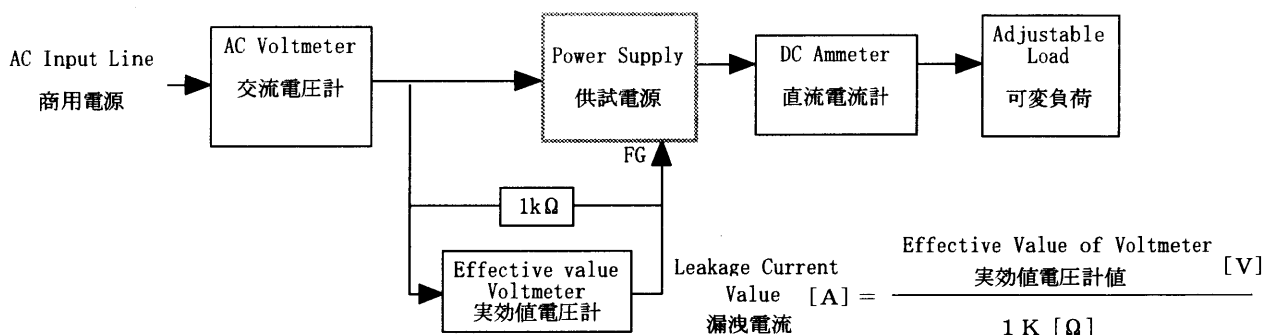


Figure B (DENTORI)

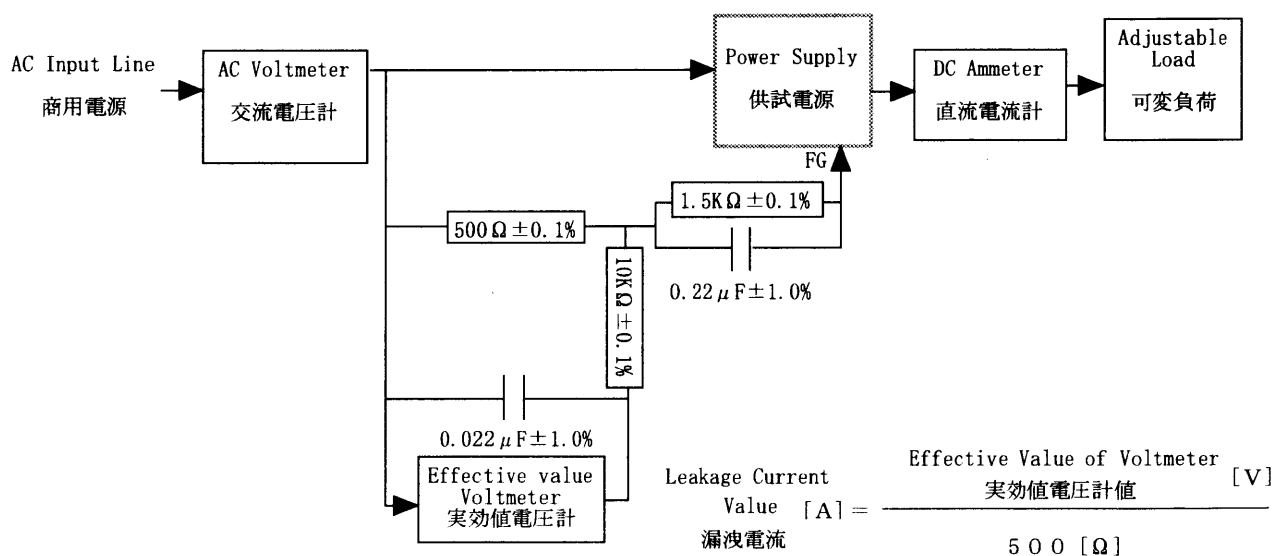


Figure B (IEC 60950)

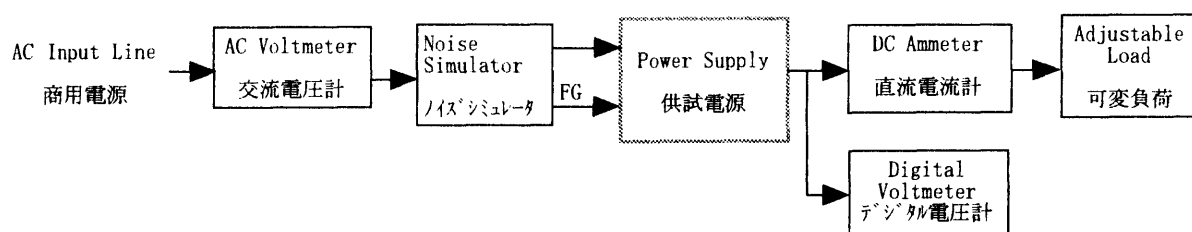


Figure C

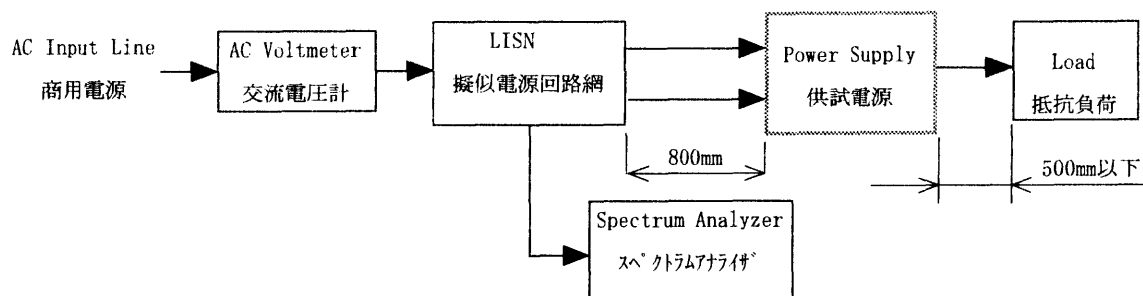


Figure D

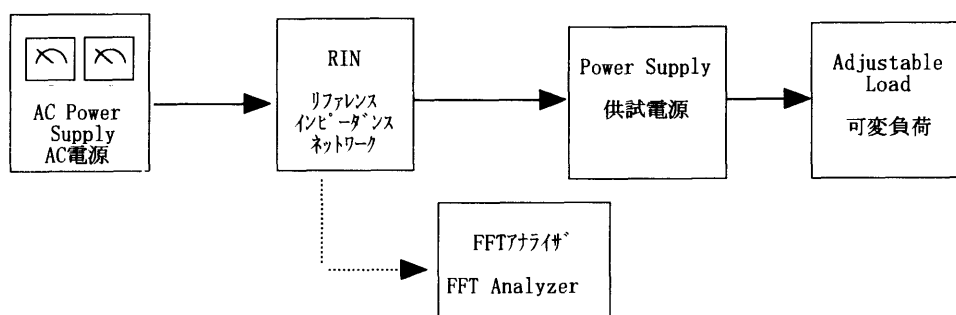


Figure E