

COSEL

TEST DATA OF LDA300W-15

(100V INPUT)

Regulated DC Power Supply

Date : Feb. 22. 1997

Approved by : R. Nagahara
Design Manager

Prepared by : T. Mano
Design Engineer

コーワセル株式会社

COSEL CO., LTD.

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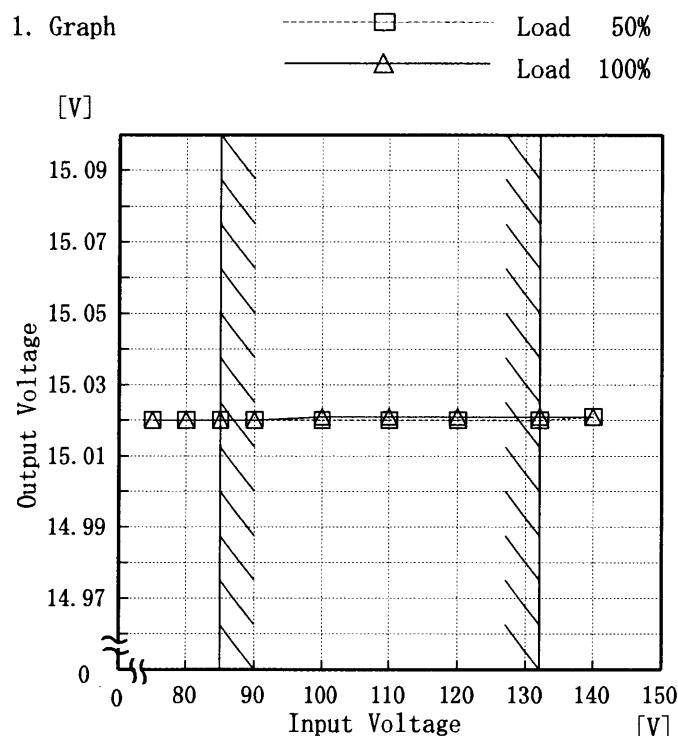
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(Final Page 23)

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Model	LDA300W-15
Item	Line Regulation 静的入力変動
Object	+15V 22A

Temperature 25°C
Testing Circuitry Figure A



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。

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Model	LDA300W-15																																	
Item	Efficiency 効率	Temperature 25°C Testing Circuitry Figure A																																
Object	_____																																	
1. Graph																																		
<p>[%]</p>		2. Values																																
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Input Voltage [V]	Load 50%	Load 100%																																
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Model	LDA300W-15																																	
Item	Hold-Up Time 出力保持時間	Temperature 25°C Testing Circuitry Figure A																																
Object	+15V22A																																	
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Input Voltage [V]	Load 50%	Load 100%																																
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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.</p> <p>Note: Slanted line shows the range of the rated input voltage.</p> <p>出力保持時間とは、AC入力断から出力電圧が、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。</p> <p>(注)斜線は定格入力電圧範囲を示す。</p>																																		

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Model	LDA300W-15	Testing Circuitry Figure A 25°C																																																					
Item	Instantaneous Interruption Compensation 瞬時停電保障																																																						
Object	+15V 22A																																																						
1. Graph	<p>Legend:</p> <ul style="list-style-type: none"> Input Volt. 85V (open triangle) Input Volt. 100V (open square) Input Volt. 132V (open circle) <p>Y-axis: Instantaneous Compensation Time [mS]</p> <p>X-axis: Load Current [A]</p>	2. Values																																																					
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Load Current [A]	Input Volt.	Input Volt.	Input Volt.																																																				
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Instantaneous Compensation Time

[mS]

1000
100
10
1

0

5

10

15

20

25

30

Load Current [A]

This duration covers from Shut-off of AC-IN to the moment when output voltage descends to its 95% of the rated.

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

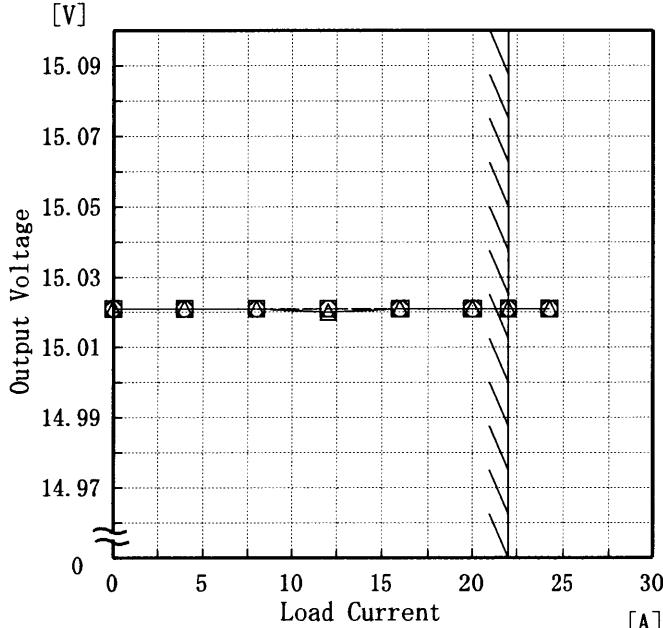
瞬時停電保障時間とは、出力電圧が定格値の 95 % になる時の瞬時停電時間をいう。

(注)斜線は定格負荷電流範囲を示す。

2. Values

Load Current [A]	Input Volt.	Input Volt.	Input Volt.
	85[V]	100[V]	132[V]
0.0	—	—	—
3.0	124	221	453
5.0	75	137	289
10.0	34	59	145
15.0	18	34	94
20.0	11	25	65
22.0	9	21	57
25.0	6	18	49
—	—	—	—
—	—	—	—
—	—	—	—

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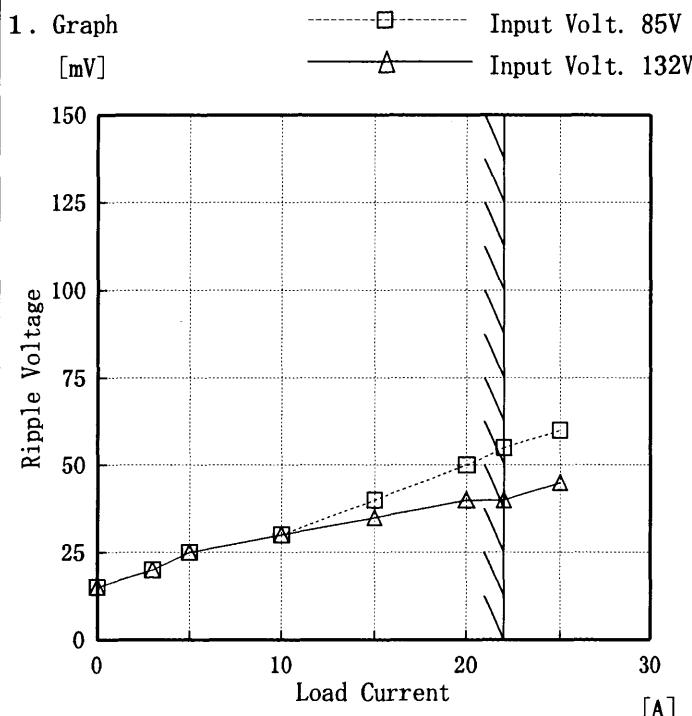
Model	LDA300W-15	Temperature Testing Circuitry 25°C Figure A																																																	
Item	Load Regulation 靜的負荷変動																																																		
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1. Graph	<p style="text-align: center;"> △ Input Volt. 85V □ Input Volt. 100V ○ Input Volt. 132V </p>  <p>Output Voltage [V]</p> <p>Load Current [A]</p>	2. Values																																																	
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Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																
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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。

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Model	LDA300W-15
Item	Ripple Voltage(by Load Current) リップル電圧(負荷電流特性)
Object	+15V 22A

Temperature
Testing Circuitry 25°C
Figure A

2. Values

Load Current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]
	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]
0.0	15	15
3.0	20	20
5.0	25	25
10.0	30	30
15.0	40	35
20.0	50	40
22.0	55	40
25.0	60	45
—	—	—
—	—	—
—	—	—

Ripple Voltage is shown as p-p in the figure below.

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

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。

- T1: Due to AC Input Line
入力商用周期
- T2: Due to Switching
スイッチング周期

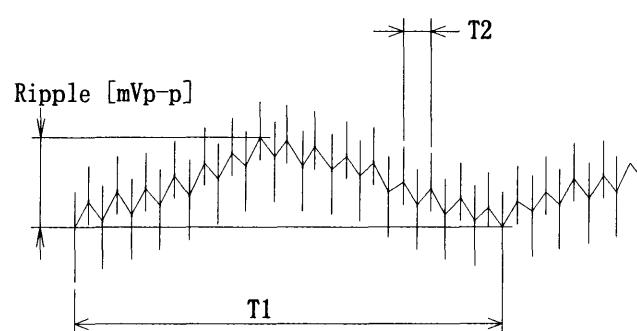
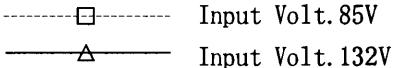


Fig. Complex Ripple Wave Form
図 リップル波形詳細図

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Model	LDA300W-15	
Item	Ripple-Noise リップルノイズ	Temperature Testing Circuitry 25°C Figure A
Object	+15V 22A	
1. Graph		
<p>[mV]</p>		Input Volt. 85V
		Input Volt. 132V
2. Values		
Load current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]
	Ripple-Noise [mV]	Ripple-Noise [mV]
0.0	20	20
3.0	30	30
5.0	35	35
10.0	45	45
15.0	55	50
20.0	65	60
22.0	70	65
25.0	80	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。

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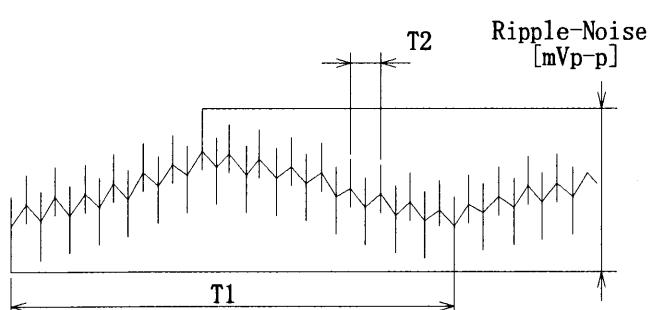
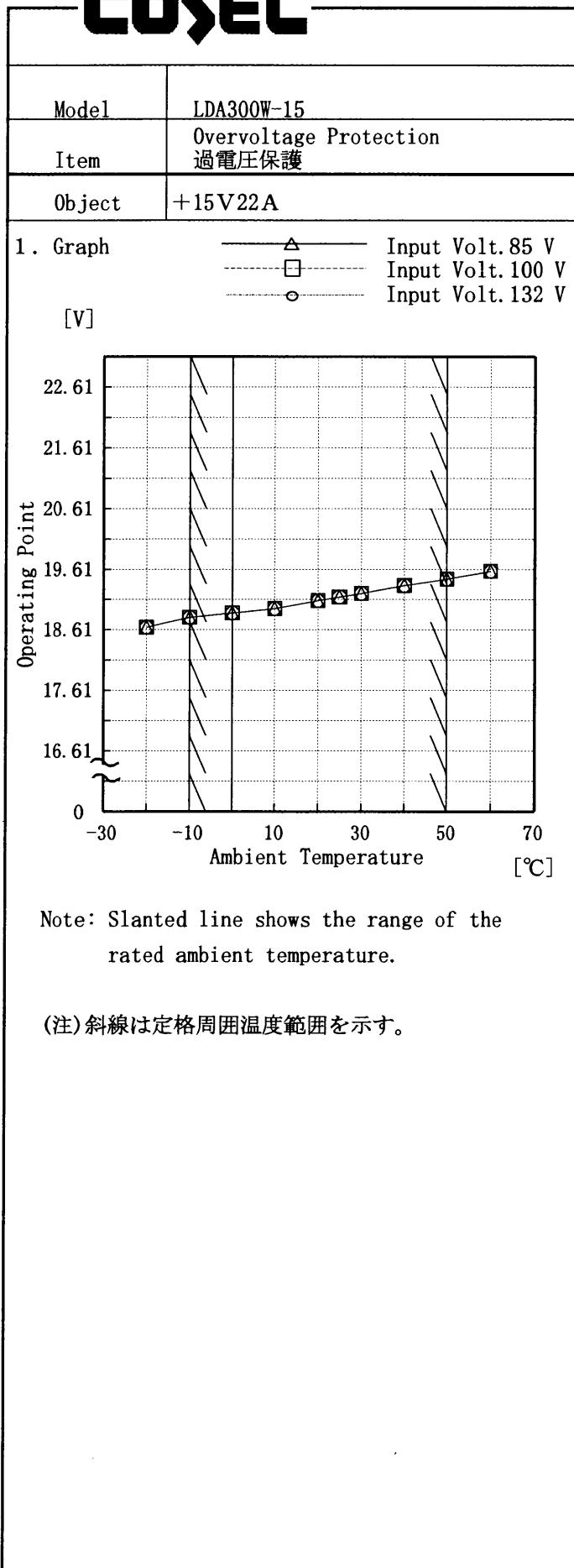


Fig. Complex Ripple Wave Form
図 リップル波形詳細図

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Model	LDA300W-15																																																									
Item	Overcurrent Protection 過電流保護	Temperature Testing Circuitry	25°C Figure A																																																							
Object	+15V 22A																																																									
1. Graph	<p>Input Volt. 85 V Input Volt. 100 V Input Volt. 132 V</p> <p>Output Voltage [V]</p> <p>Load Current [A]</p>																																																									
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0.00	—	—	—																																																							
Note:	<p>Slanted line shows the range of the rated load current.</p> <p>Hiccup operation occurs when the output voltage is under 10V.</p> <p>(注) 斜線は定格負荷電流範囲を示す。 10V以下は間欠動作となる。</p>																																																									



Testing Circuitry Figure A

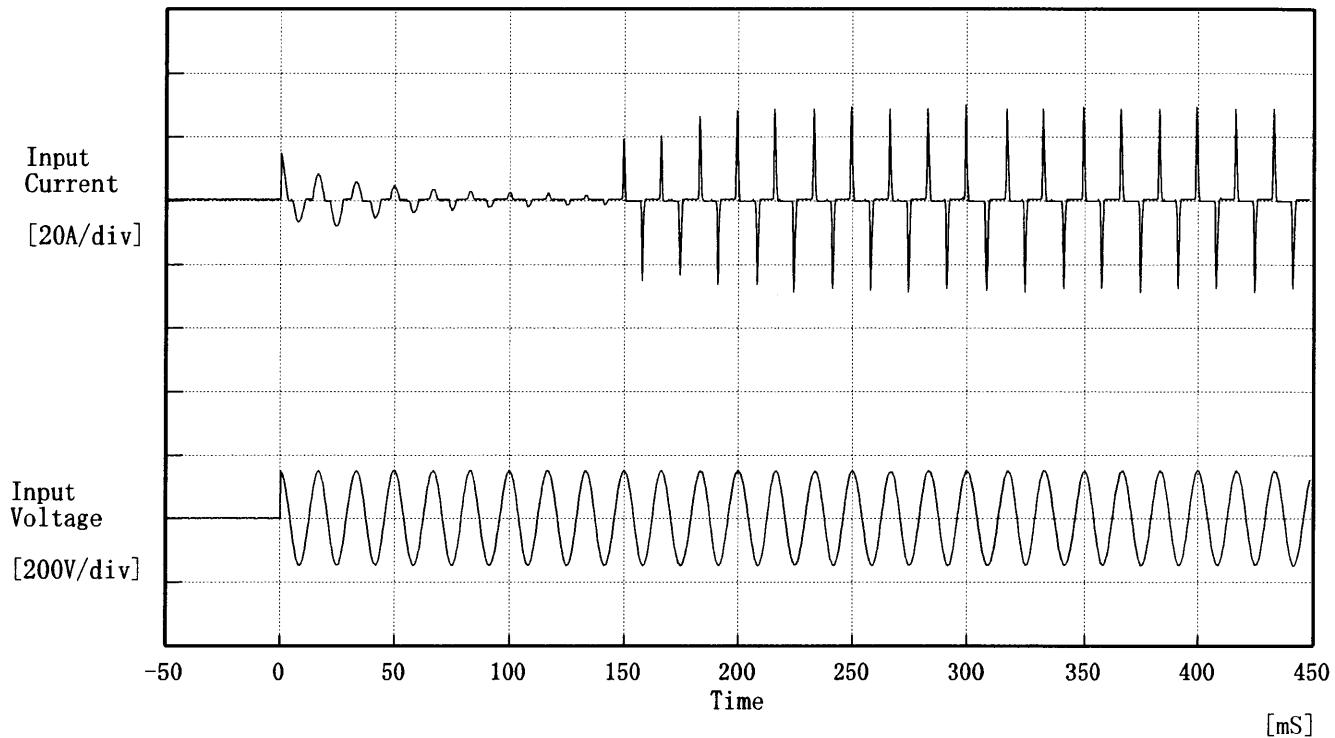
Ambient Temp. [°C]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Operating Point [V]		
-20	18.65	18.65	18.65
-10	18.82	18.82	18.82
0	18.89	18.89	18.89
10	18.96	18.96	18.96
20	19.09	19.09	19.09
25	19.15	19.15	19.15
30	19.21	19.21	19.21
40	19.34	19.34	19.34
50	19.45	19.45	19.45
60	19.58	19.58	19.58
—	—	—	—

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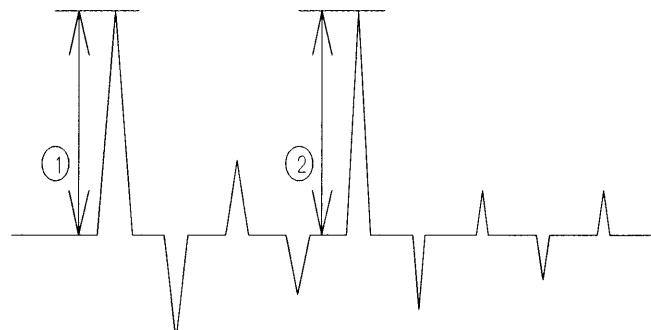
Model LDA300W-15

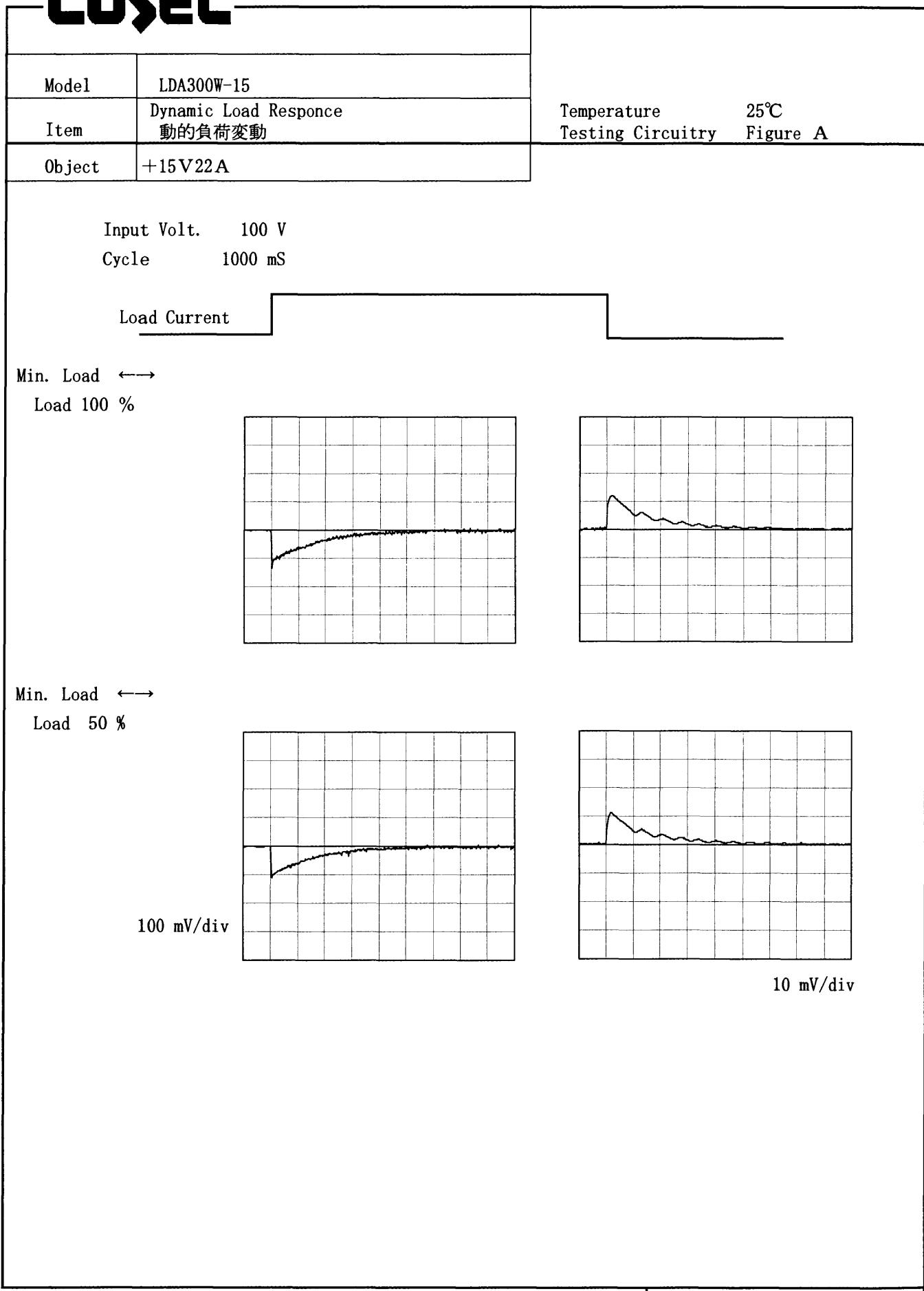
Item Inrush Current 突入電流

Object _____

Temperature 25°C
Testing Circuitry Figure A

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

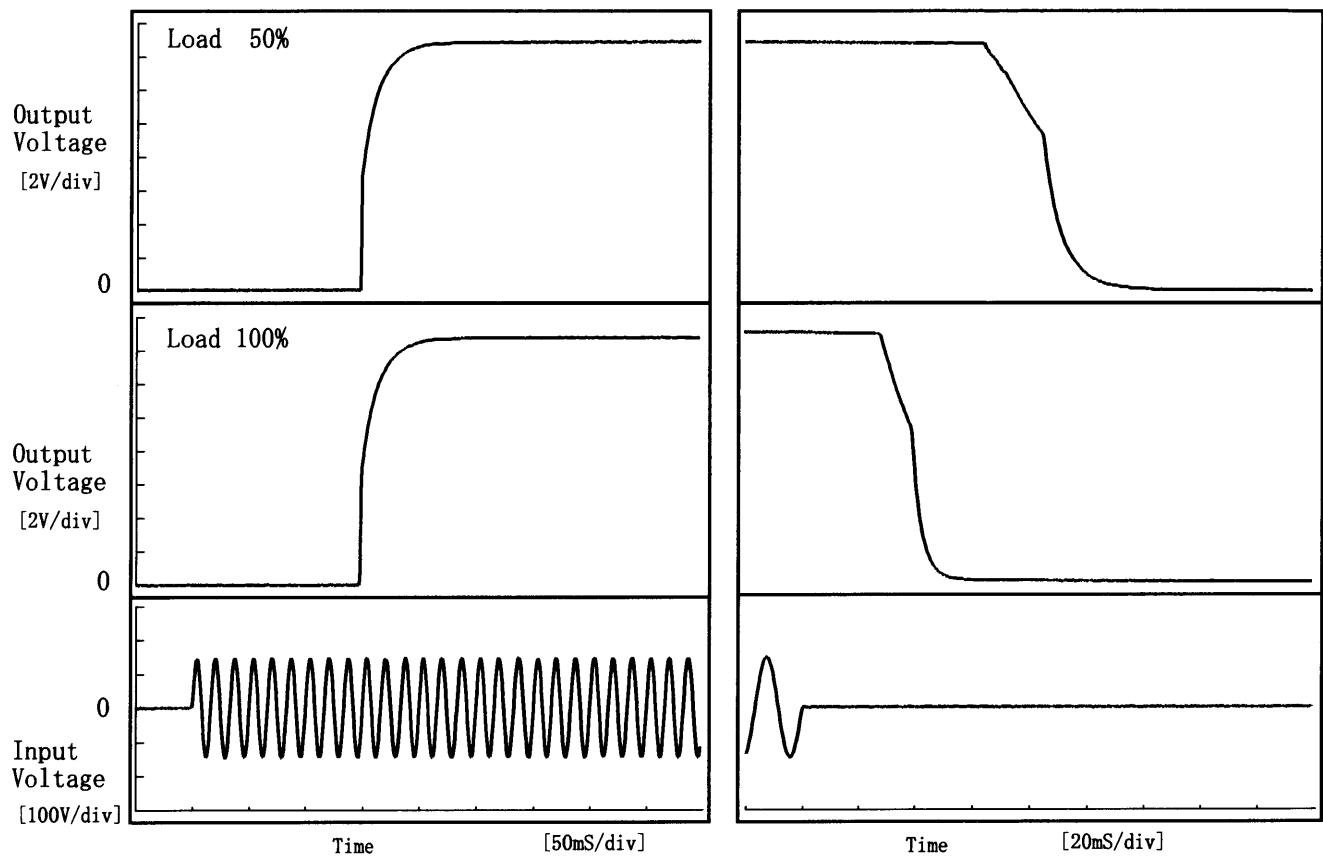


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COSEL

Model	LDA300W-15	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+15V22A		

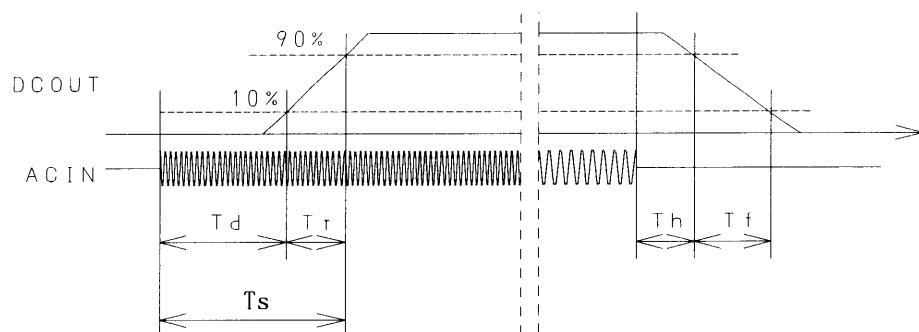
1. Graph

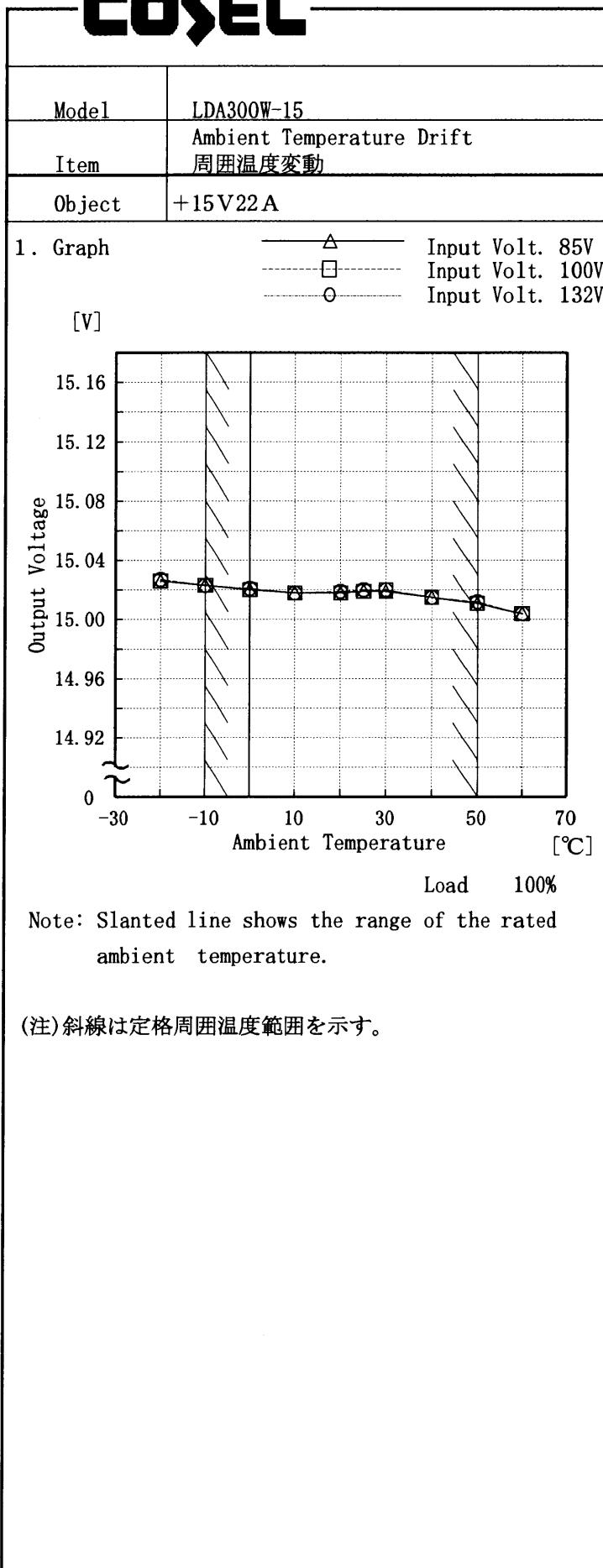


2. Values

[mS]

Load	Time	T _d	T _r	T _s	T _h	T _f
50 %		147.0	20.0	167.0	69.3	27.8
100 %		147.5	21.3	168.8	30.4	15.3



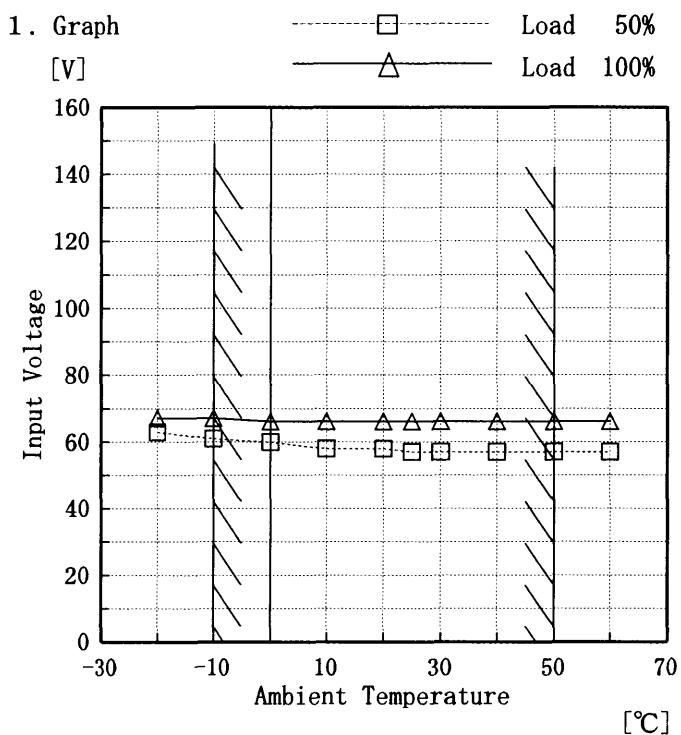
COSEL


Testing Circuitry Figure A

COSEL

Model	LDA300W-15
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	+15V 22A

Testing Circuitry Figure A



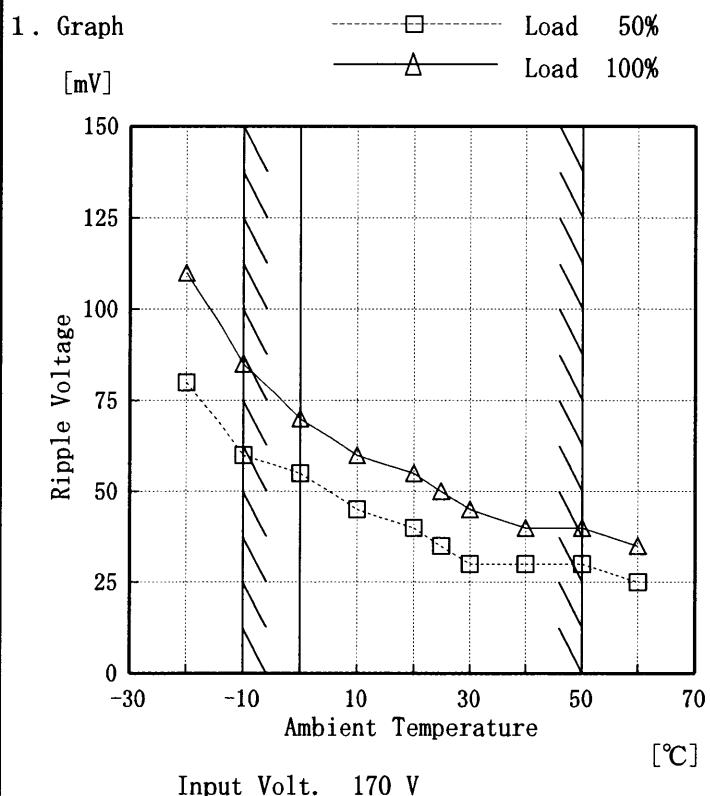
Note: Slanted line shows the range of the rated ambient temperature.

(注) 斜線は定格周囲温度範囲を示す。

COSEL

Model	LDA300W-15
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)
Object	+15V 22A

Testing Circuitry Figure A



2. Values

Ambient Temp. [°C]	Load 50%	Load 100%
	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]
-20	80	110
-10	60	85
0	55	70
10	45	60
20	40	55
25	35	50
30	30	45
40	30	40
50	30	40
60	25	35
—	—	—

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	LDA300W-15	Temperature Testing Circuitry 25 °C Figure A																					
Item	Time Lapse Drift 経時ドリフト																						
Object	+15V 22A																						
1. Graph		2. Values																					
<p>[V]</p> <p>Output Voltage [V]</p> <p>Input Volt. 100V</p> <p>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>15.033</td></tr> <tr><td>0.5</td><td>15.031</td></tr> <tr><td>1.0</td><td>15.031</td></tr> <tr><td>2.0</td><td>15.031</td></tr> <tr><td>3.0</td><td>15.031</td></tr> <tr><td>4.0</td><td>15.031</td></tr> <tr><td>5.0</td><td>15.031</td></tr> <tr><td>6.0</td><td>15.031</td></tr> <tr><td>7.0</td><td>15.031</td></tr> <tr><td>8.0</td><td>15.031</td></tr> </tbody> </table>		Time since start [H]	Output Voltage [V]	0.0	15.033	0.5	15.031	1.0	15.031	2.0	15.031	3.0	15.031	4.0	15.031	5.0	15.031	6.0	15.031	7.0	15.031	8.0	15.031
Time since start [H]	Output Voltage [V]																						
0.0	15.033																						
0.5	15.031																						
1.0	15.031																						
2.0	15.031																						
3.0	15.031																						
4.0	15.031																						
5.0	15.031																						
6.0	15.031																						
7.0	15.031																						
8.0	15.031																						



Model	LDA300W-15	
Item	Output Voltage Accuracy 定電圧精度	Testing Circuitry Figure A
Object	+15V22A	

Output Voltage Accuracy

This is defined as the maximum value of the output voltage regulation load, temperature and input voltage vary at random in the range as specified below.

Temperature : -10~50 °C

Input Voltage : 85~132 V

Load Current : 0~22 A

* Output Voltage Accuracy = ±(Maximum of Output Voltage - Minimum of Output Voltage)/2

Voltage Accuracy

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

定電圧精度

温度、入力電圧、負荷を下記仕様内で、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 0~22 A

* 定電圧精度(変動値) = ±(出力電圧の最高値-出力電圧の最低値)/2

変動値

$$* \text{定電圧精度(変動率)} = \frac{\text{変動値}}{\text{定格出力電圧}} \times 100$$

Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy(Ration) [%]
Maximum Voltage	-10	132	22	15.024	±6	±0.040
Minimum Voltage	50	85	22	15.012		



Model	LDA300W-15		
Item	Condensation 結露特性	Testing Circuitry	Figure A
Object	+15V22A		

1. Condensation test

Testing procedure is as follows.

- ① Keeping and cooling the unit in a tank at -10°C 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°C and the humidity is 45%RH.
- ③ Testing electrical characteristics of the unit to confirm there be no fault.
- ④ Repeating ①, ② and ③ three times.

1. 結露特性試験

入力を切った状態で、恒温槽で-10°C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°C、湿度45%RHの状態におき結露させ、その電気的特性の測定を3度行い、異常のないことを確認する。

2. Values

	Times	Output Voltage [V]	Ripple Voltage [mV]	Ripple Noise [mV]
Load 50 %	1	15.03	50	65
	2	15.03	50	65
	3	15.03	50	65
Load 100 %	1	15.03	50	65
	2	15.03	50	65
	3	15.03	50	65

Input Volt. 100 V



Model	LDA300W-15		
Item	Leakage Current 漏洩電流	Testing Circuitry	Figure B
Object	+15V 22A		

1. Results

Standards	Leakage Current [mA]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
(A) DENTORI	0.20	0.23	0.31
(B) U L	0.20	0.23	0.31
(C) C S A	0.20	0.23	0.31

2. Condition

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

交流入力の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。

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 220 [V]	Input Volt. 264 [V]
(D) V D E	—	—	—

Load 100 %



Model	LDA300W-15	
Item	Line Noise Tolerance 入力雑音耐量	Testing Circuitry Figure C
Object	+15V22A	

1. Results

Pulse Width [nS]	MODE	Operating Point of Overvoltage Protection [V] 過電圧保護動作値	DC-like Regulation of Output Voltage 出力電圧の直流的変動
50	COMMON	19.10	no regulation
	NORMAL	19.10	no regulation
1000	COMMON	19.10	no regulation
	NORMAL	19.10	no regulation

Conditions

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

COSEL

Model	LDA300W-15
Item	Conducted Emission 雜音端子電圧
Object	+15V22A

Testing Circuitry

Figure D

1. Graph

Remarks

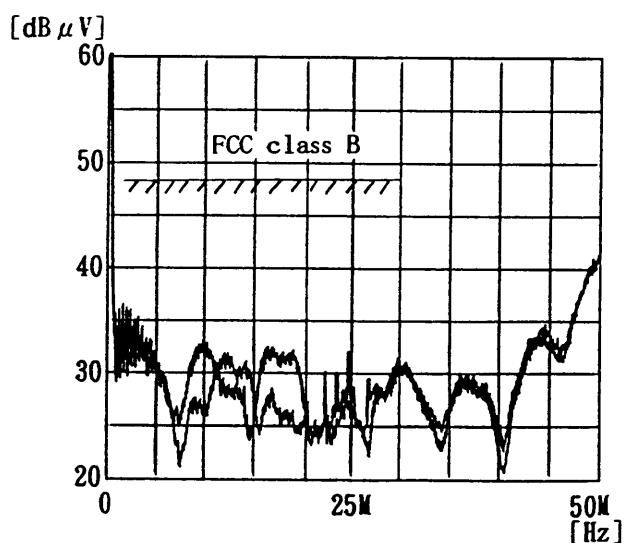
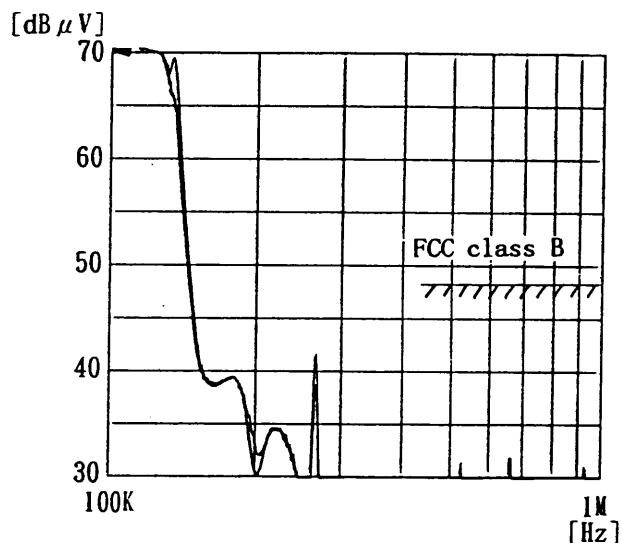
Input Volt. 120 V

Load 100 %

Note: Slanted line shows the range of Tolerance.

(注)斜線は許容値を示す。

No	Standards	Standards Complied	Frequency [MHz]	Tolerance [dB/ μ V]
1	FCC Class A		0.45~1.6	60
			1.6~30	69.5
2	FCC Class B	○	0.45~30	48
3	VCCI -1		0.15~0.5	79
			0.5~30	73
4	VCCI -2	○	0.15~0.5	66~56
			0.5~5	56
			5~30	60
5	CISPR 22 Class A (EN55022)		0.15~0.5	79
			0.5~30	73
6	CISPR 22 Class B (EN55022)		0.15~0.5	66~56
			0.5~5	56
			5~30	60



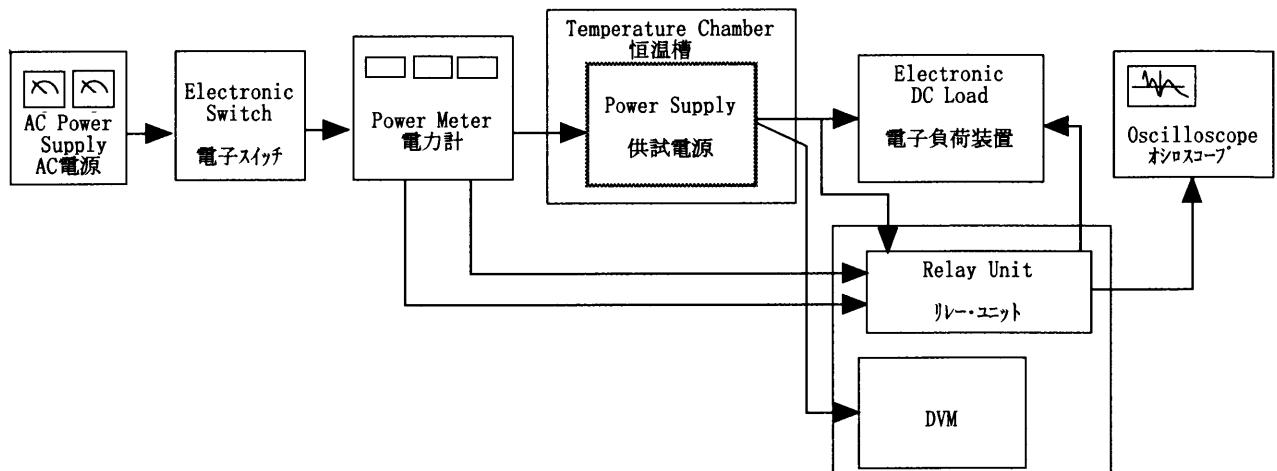


Figure A

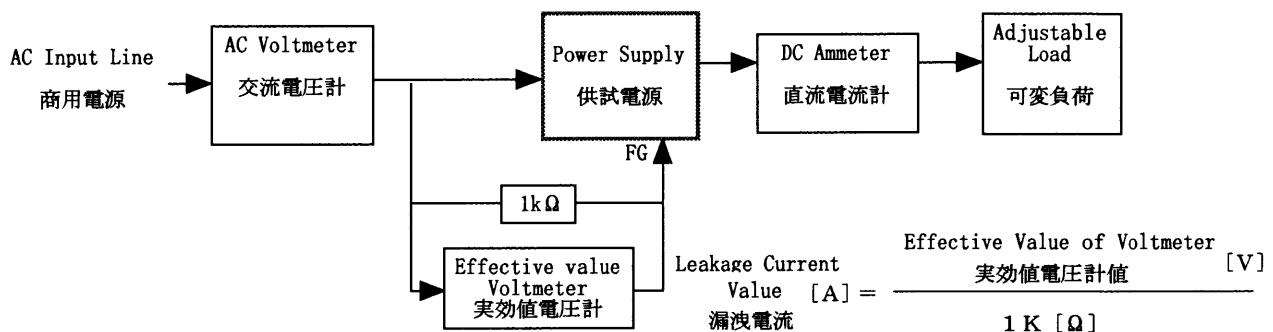
Data Acquisition/Control Unit
データ集録システム

Figure B (DENTORI)

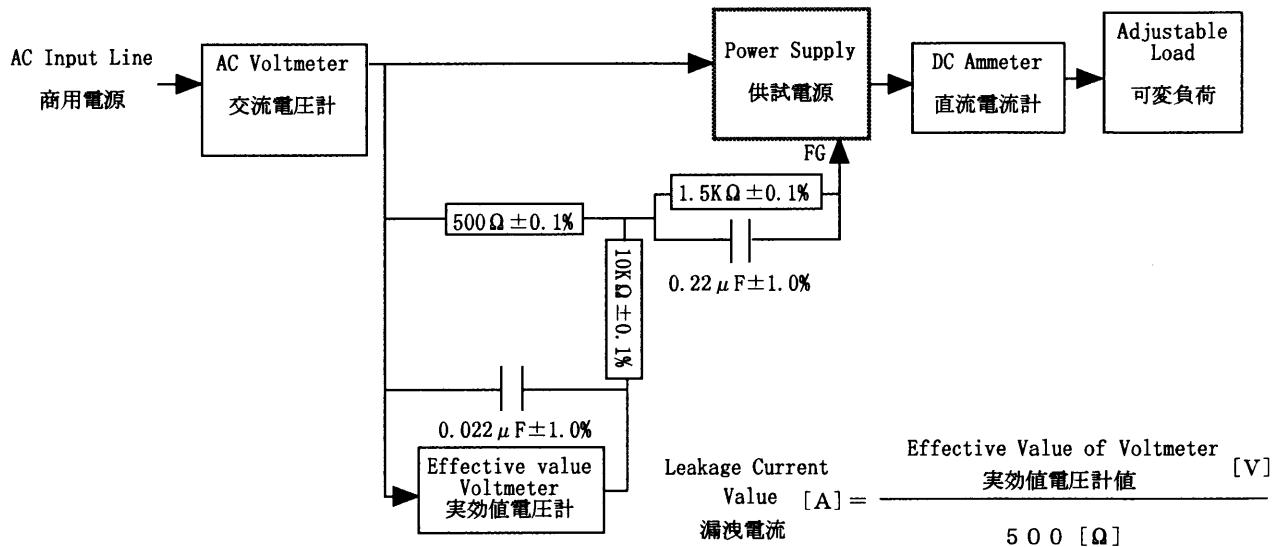


Figure B (UL, CSA, VDE)

COSEL

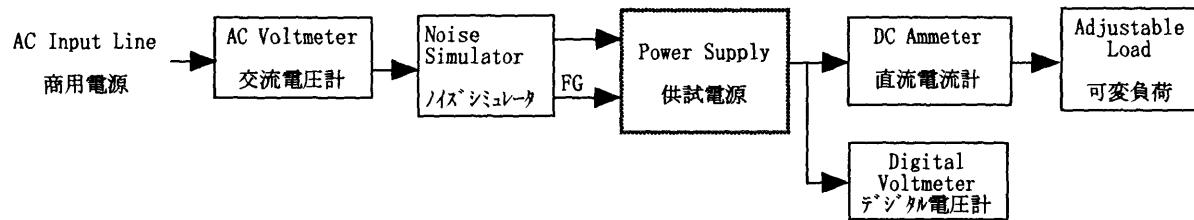


Figure C

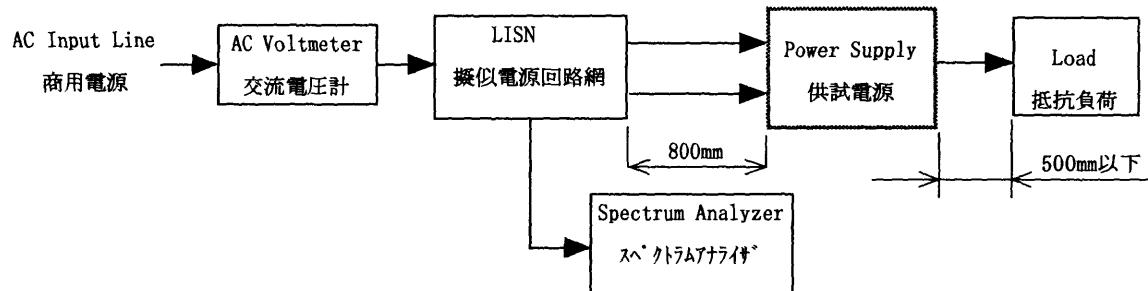


Figure D

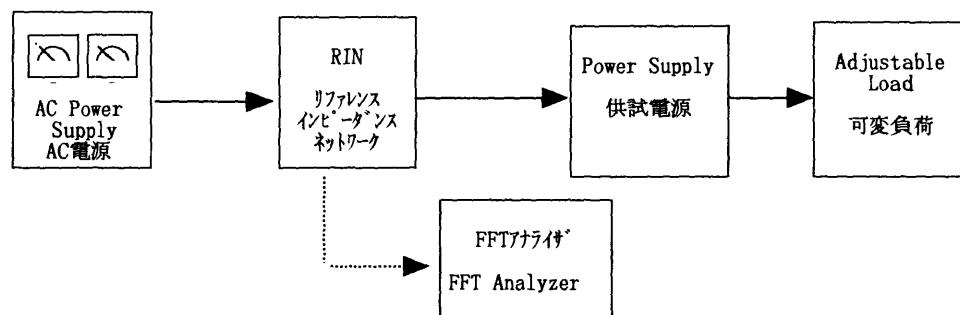


Figure E