



TEST DATA OF LDA300W-24

(100V INPUT)

Regulated DC Power Supply

Date : Feb. 22. 1997

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Design Manager

Prepared by : T. Mano
Design Engineer

コーセル株式会社

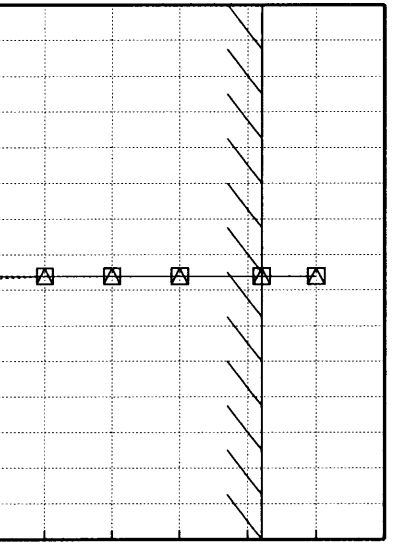
COSEL CO., LTD.

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Model		LDA300W-24	Temperature Testing Circuitry	25℃ Figure A																															
Item		Line Regulation 静的入力変動																																	
Object		+24V14A																																	
1. Graph			2. Values																																
<div><div><div>-----□-----</div><div>Load 50%</div></div><div><div>-----△-----</div><div>Load 100%</div></div></div> <div><div>[V]</div><div><div>24.08</div><div>24.06</div><div>24.04</div><div>24.02</div><div>24.00</div><div>23.98</div><div>23.96</div><div>0</div></div><div><div>Output Voltage</div><div></div></div></div> <div><div><div>0</div><div>80</div><div>90</div><div>100</div><div>110</div><div>120</div><div>130</div><div>140</div><div>150</div></div><div><div>Input Voltage</div><div>[V]</div></div></div>  <div><div>Note: Slanted line shows the range of the rated input voltage.</div><div>(注)斜線は定格入力電圧範囲を示す。</div></div>			<table><tr><th rowspan="2">Input Voltage [V]</th><th>Load 50%</th><th>Load 100%</th></tr><tr><th>Output Volt. [V]</th><th>Output Volt. [V]</th></tr><tr><td>75</td><td>24.013</td><td>24.013</td></tr><tr><td>80</td><td>24.013</td><td>24.013</td></tr><tr><td>85</td><td>24.014</td><td>24.014</td></tr><tr><td>90</td><td>24.013</td><td>24.014</td></tr><tr><td>100</td><td>24.014</td><td>24.014</td></tr><tr><td>110</td><td>24.014</td><td>24.014</td></tr><tr><td>120</td><td>24.014</td><td>24.014</td></tr><tr><td>132</td><td>24.014</td><td>24.014</td></tr><tr><td>140</td><td>24.014</td><td>24.014</td></tr></table>	Input Voltage [V]	Load 50%	Load 100%	Output Volt. [V]	Output Volt. [V]	75	24.013	24.013	80	24.013	24.013	85	24.014	24.014	90	24.013	24.014	100	24.014	24.014	110	24.014	24.014	120	24.014	24.014	132	24.014	24.014	140	24.014	24.014
Input Voltage [V]	Load 50%	Load 100%																																	
	Output Volt. [V]	Output Volt. [V]																																	
75	24.013	24.013																																	
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90	24.013	24.014																																	
100	24.014	24.014																																	
110	24.014	24.014																																	
120	24.014	24.014																																	
132	24.014	24.014																																	
140	24.014	24.014																																	

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Model		LDA300W-24	Temperature 25°C Testing Circuitry Figure A
Item		Efficiency 効率	
Object			2. Values
1. Graph			

□ Load 50%
△ Load 100%

Efficiency [%]

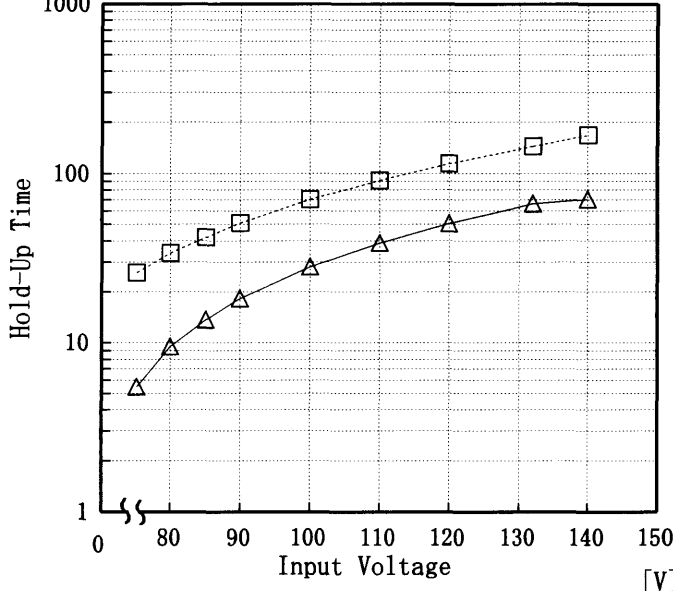
Input Voltage [V]

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。

Input Voltage [V]	Load 50% Efficiency [%]	Load 100% Efficiency [%]
75	81.86	79.87
80	82.44	80.83
85	82.94	81.62
90	83.27	82.21
100	83.60	83.02
110	83.49	83.43
120	83.30	83.85
132	82.86	84.06
140	82.51	84.06

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Model		LDA300W-24	Temperature Testing Circuitry	25℃ Figure A																														
Item		Hold-Up Time 出力保持時間																																
Object		+24V14A																																
1. Graph		<div><div><div>□</div><div>Load 50%</div></div><div><div>△</div><div>Load 100%</div></div></div> <div><div><div>[mS]</div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div><div>Hold-Up Time</div><div>0 80 90 100 110 120 130 140 150</div><div>Input Voltage [V]</div></div></div> 	2. Values																															
		<table><tr><th rowspan="2">Input Voltage [V]</th><th>Load 50%</th><th>Load 100%</th></tr><tr><th>Hold-Up Time [mS]</th><th>Hold-Up Time [mS]</th></tr><tr><td>75</td><td>26</td><td>5</td></tr><tr><td>80</td><td>34</td><td>10</td></tr><tr><td>85</td><td>42</td><td>14</td></tr><tr><td>90</td><td>51</td><td>18</td></tr><tr><td>100</td><td>70</td><td>28</td></tr><tr><td>110</td><td>91</td><td>39</td></tr><tr><td>120</td><td>114</td><td>51</td></tr><tr><td>132</td><td>145</td><td>66</td></tr><tr><td>140</td><td>169</td><td>70</td></tr></table>		Input Voltage [V]	Load 50%	Load 100%	Hold-Up Time [mS]	Hold-Up Time [mS]	75	26	5	80	34	10	85	42	14	90	51	18	100	70	28	110	91	39	120	114	51	132	145	66	140	169
Input Voltage [V]	Load 50%	Load 100%																																
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90	51	18																																
100	70	28																																
110	91	39																																
120	114	51																																
132	145	66																																
140	169	70																																
<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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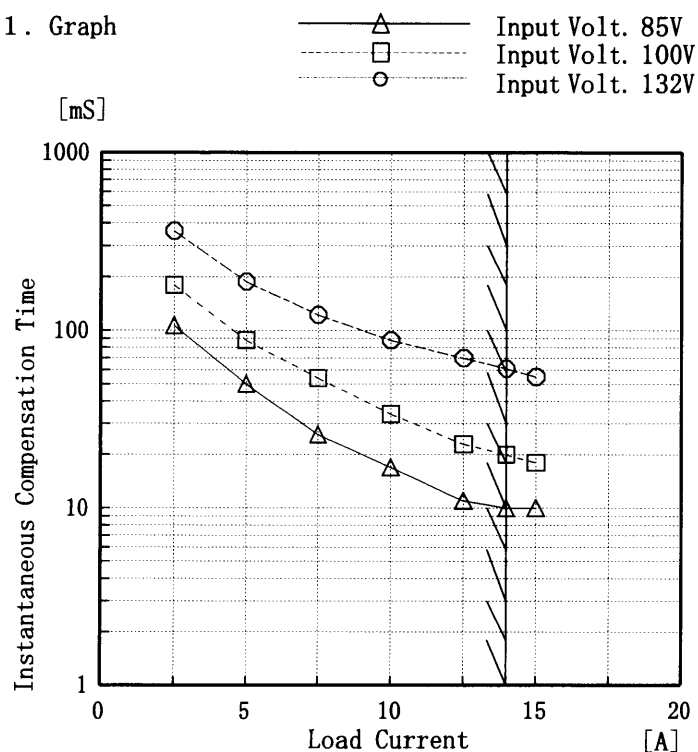
Model LDA300W-24

Item Instantaneous Interruption Compensation
瞬時停電保障

Object +24V14A

Testing Circuitry Figure A 25°C

1. Graph



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。

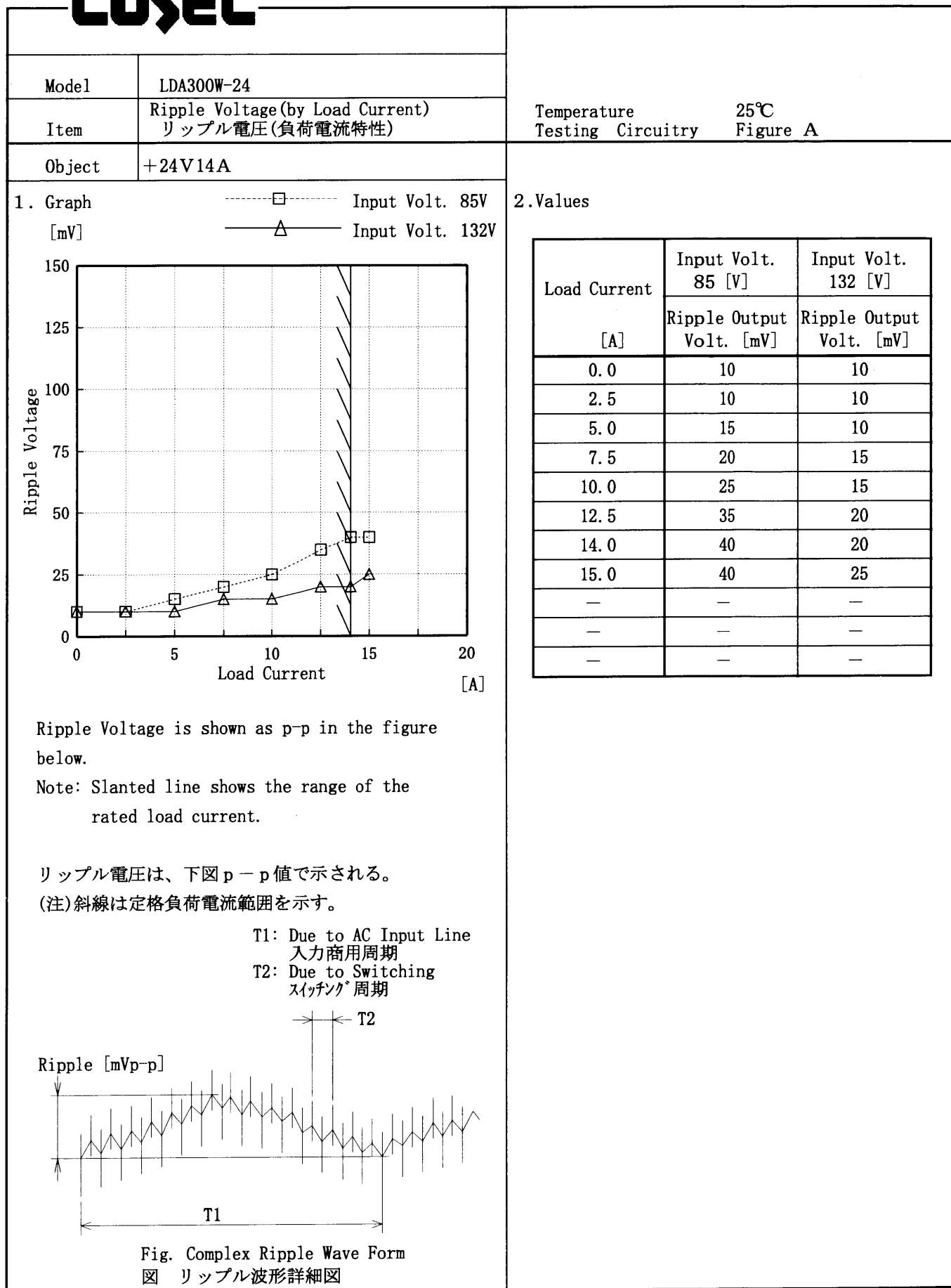
2. Values

Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Time [mS]		
0.0	—	—	—
2.5	107	180	363
5.0	50	88	188
7.5	26	54	122
10.0	17	34	88
12.5	11	23	70
14.0	10	20	61
15.0	10	18	55
—	—	—	—
—	—	—	—
—	—	—	—

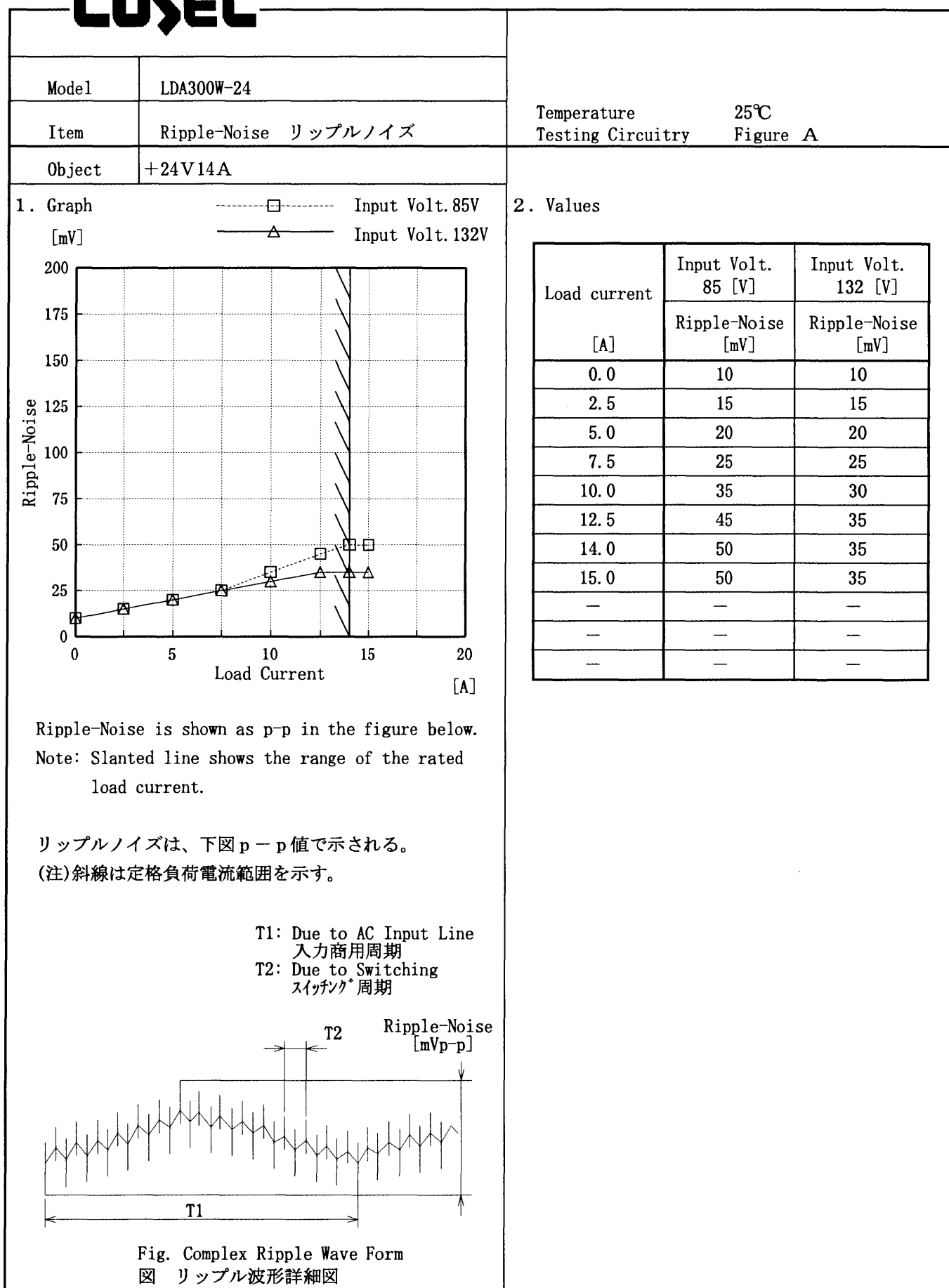
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Model		LDA300W-24	Temperature 25℃ Testing Circuitry Figure A
Item		Load Regulation 静的負荷変動	
Object		+24V14A	
1. Graph			
		<div><div><div></div><div></div><div></div></div><div><div>Input Volt. 85V</div><div>Input Volt. 100V</div><div>Input Volt. 132V</div></div></div>	2. Values
<div><div><div>Output Voltage [V]</div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><di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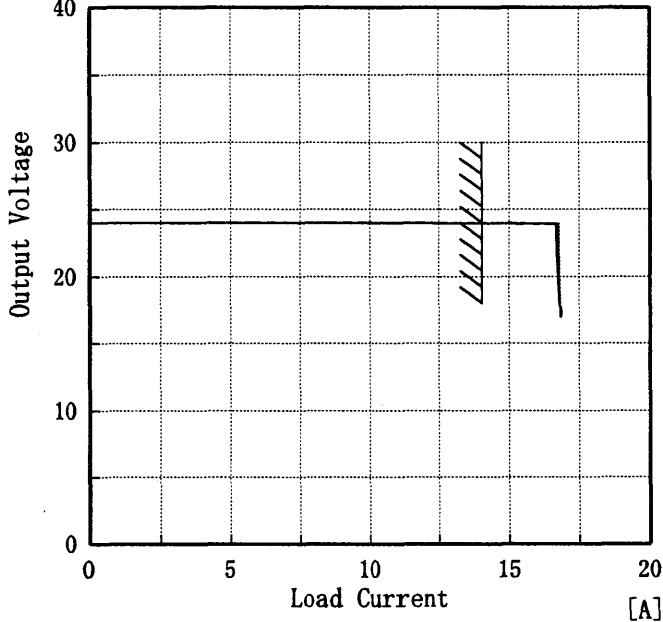
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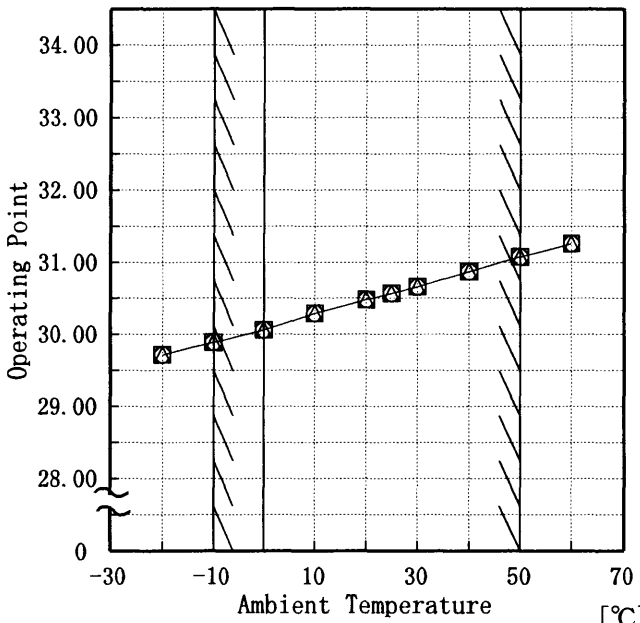
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Model		LDA300W-24		Temperature		25℃	
Item		Overcurrent Protection 過電流保護		Testing Circuitry		Figure A	
Object		+24V14A					
1. Graph				2. Values			
[V]		<div><div></div><div></div><div></div></div> <div>Input Volt. 85 V Input Volt. 100 V Input Volt. 132 V</div>					
Output Voltage							
Load Current		[A]					
Note: Slanted line shows the range of the rated load current.							
Hiccap operation occurs when the output voltage is under 17V.							
(注)斜線は定格負荷電流範囲を示す。							
17V以下は間欠動作となる。							

COSEL

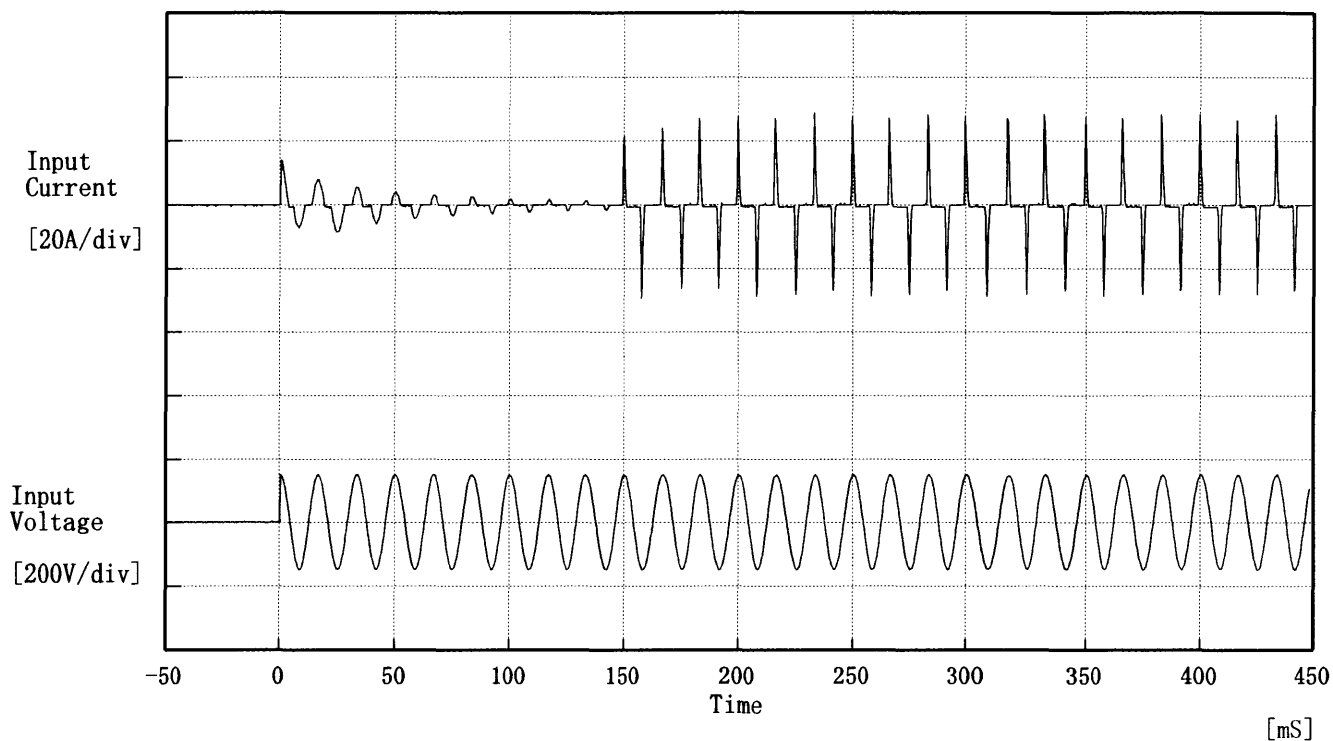
Model		LDA300W-24																																																					
Item		Overvoltage Protection 過電圧保護																																																					
Object		+24V14A																																																					
1. Graph		2. Values																																																					
<div><div><div>—△—</div><div>---□---</div><div>---○---</div></div><div>Input Volt. 85 V</div><div>Input Volt. 100 V</div><div>Input Volt. 132 V</div></div> <div><div>[V]</div><div></div><div>Operating Point</div><div>Ambient Temperature [°C]</div></div> <div>Note: Slanted line shows the range of the rated ambient temperature.</div> <div>(注)斜線は定格周囲温度範囲を示す。</div>		<table><tr><th>Ambient Temp.</th><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><th>[°C]</th><th colspan="3">Operating Point [V]</th></tr><tr><td>-20</td><td>29.72</td><td>29.72</td><td>29.72</td></tr><tr><td>-10</td><td>29.89</td><td>29.89</td><td>29.89</td></tr><tr><td>0</td><td>30.06</td><td>30.06</td><td>30.06</td></tr><tr><td>10</td><td>30.29</td><td>30.29</td><td>30.29</td></tr><tr><td>20</td><td>30.48</td><td>30.48</td><td>30.48</td></tr><tr><td>25</td><td>30.57</td><td>30.57</td><td>30.57</td></tr><tr><td>30</td><td>30.66</td><td>30.66</td><td>30.66</td></tr><tr><td>40</td><td>30.87</td><td>30.87</td><td>30.87</td></tr><tr><td>50</td><td>31.08</td><td>31.08</td><td>31.08</td></tr><tr><td>60</td><td>31.26</td><td>31.26</td><td>31.26</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>		Ambient Temp.	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	[°C]	Operating Point [V]			-20	29.72	29.72	29.72	-10	29.89	29.89	29.89	0	30.06	30.06	30.06	10	30.29	30.29	30.29	20	30.48	30.48	30.48	25	30.57	30.57	30.57	30	30.66	30.66	30.66	40	30.87	30.87	30.87	50	31.08	31.08	31.08	60	31.26	31.26	31.26	—	—	—	—
Ambient Temp.	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																				
[°C]	Operating Point [V]																																																						
-20	29.72	29.72	29.72																																																				
-10	29.89	29.89	29.89																																																				
0	30.06	30.06	30.06																																																				
10	30.29	30.29	30.29																																																				
20	30.48	30.48	30.48																																																				
25	30.57	30.57	30.57																																																				
30	30.66	30.66	30.66																																																				
40	30.87	30.87	30.87																																																				
50	31.08	31.08	31.08																																																				
60	31.26	31.26	31.26																																																				
—	—	—	—																																																				

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BC-0700

COSEL

Model	LDA300W-24	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current 突入電流	
Object	_____	



Input Voltage 100 V

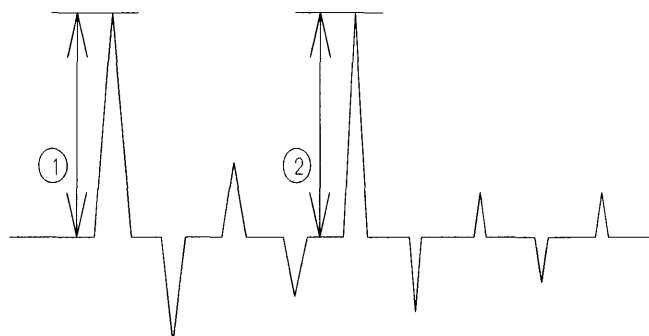
Frequency 60 Hz

Load 100 %

Inrush Current

① 13.80 [A]

② 29.40 [A]



COSEL

Model	LDA300W-24	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	+24V14A	

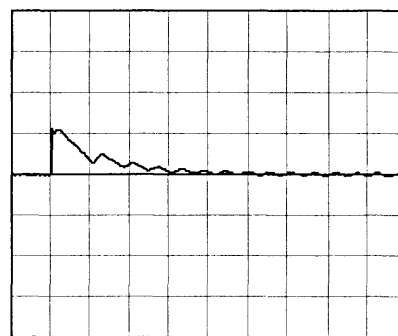
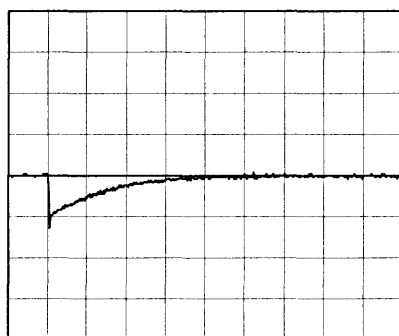
Input Volt. 100 V

Cycle 1000 mS

Load Current

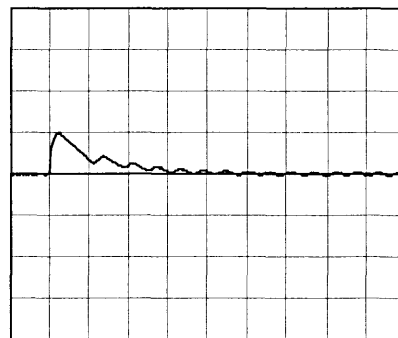
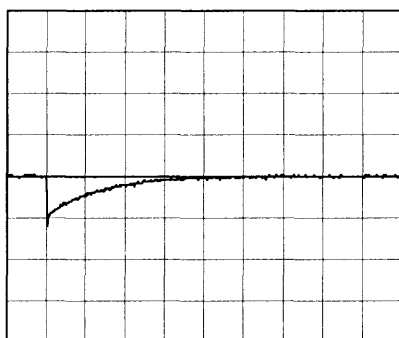
Min. Load \longleftrightarrow

Load 100 %

Min. Load \longleftrightarrow

Load 50 %

100 mV/div



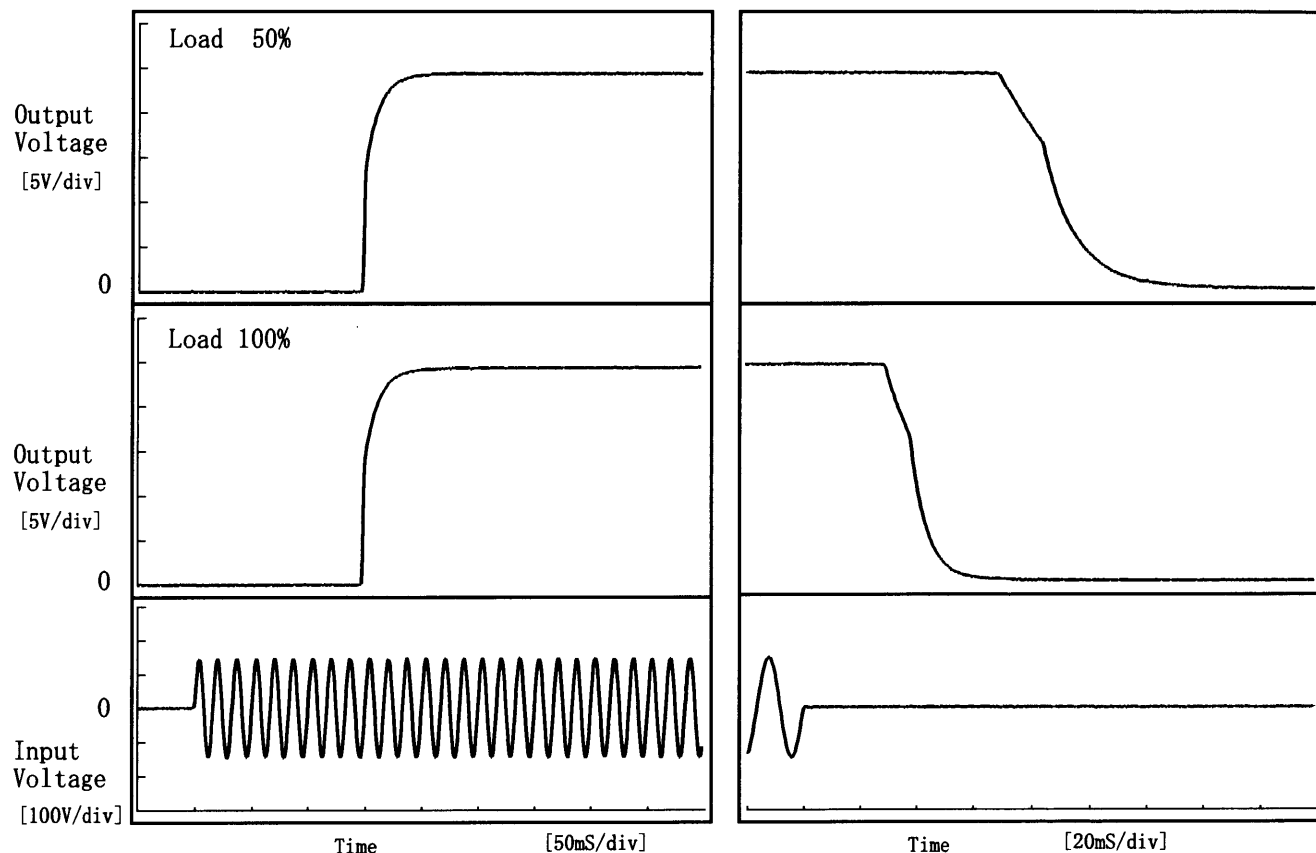
10 mV/div

COSEL

Model	LDA300W-24	Temperature	25℃
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+24V14A		

1. Graph

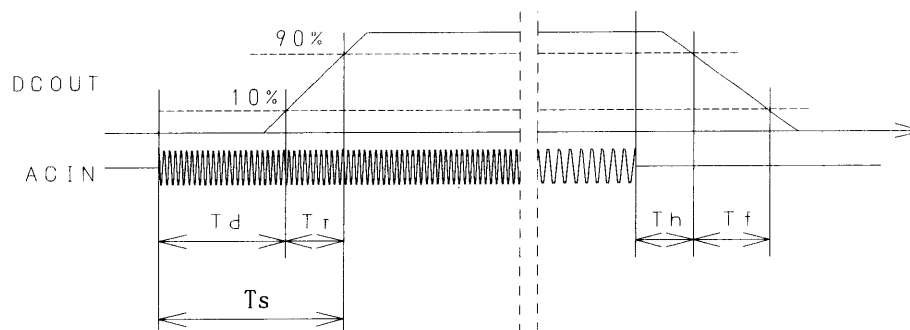
Input Volt. 100 V



2. Values

[mS]

Load \ Time	T _d	T _r	T _s	T _h	T _f
50 %	146.8	18.0	164.8	73.4	34.6
100 %	147.3	17.5	164.8	31.8	17.9



COSEL

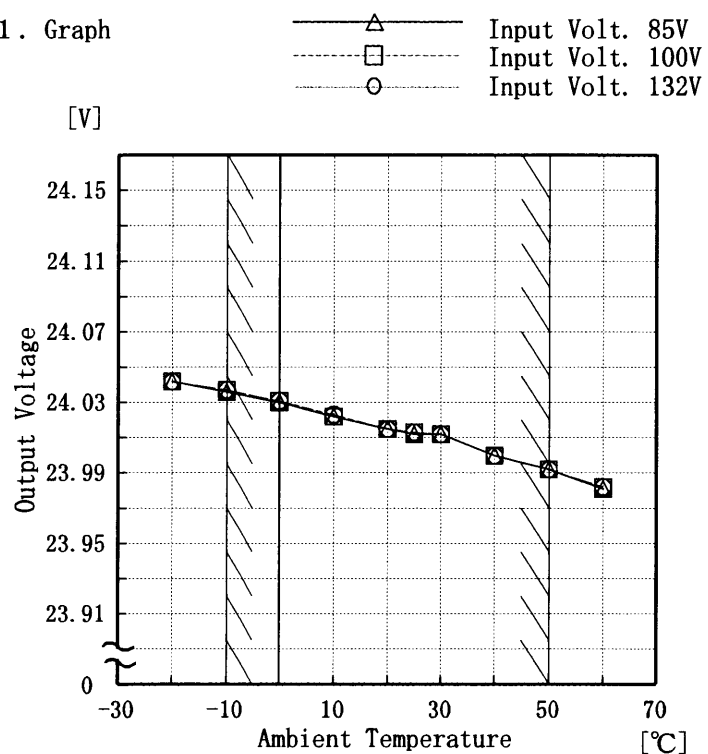
Model LDA300W-24

Item Ambient Temperature Drift
周囲温度変動

Object +24V14A

Testing Circuitry Figure A

1. Graph



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 [°C]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]
-20	24.042	24.042	24.042
-10	24.036	24.037	24.037
0	24.030	24.031	24.031
10	24.022	24.022	24.023
20	24.015	24.015	24.015
25	24.012	24.013	24.013
30	24.012	24.012	24.012
40	24.000	24.000	24.000
50	23.992	23.992	23.992
60	23.981	23.982	23.982
—	—	—	—

COSEL

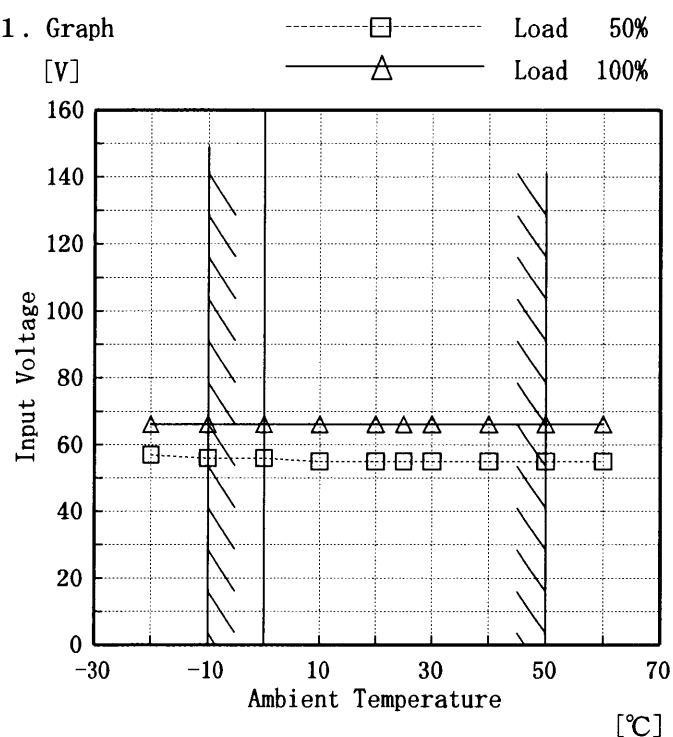
Model LDA300W-24

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

Object +24V14A

Testing Circuitry Figure A

1. Graph



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 Temp. [°C]	Load 50% Input Volt. [V]	Load 100% Input Volt. [V]
-20	57	66
-10	56	66
0	56	66
10	55	66
20	55	66
25	55	66
30	55	66
40	55	66
50	55	66
60	55	66
—	—	—

COSEL

Model LDA300W-24		Testing Circuitry Figure A																																				
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)																																					
Object	+24V14A																																					
<p>1. Graph</p> <p>-----□----- Load 50%</p> <p>-----△----- Load 100%</p> <p>[mV]</p> <p>Ripple Voltage</p> <p>Ambient Temperature [°C]</p> <p>Input Volt. 85 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>		<p>2. Values</p> <table border="1"> <thead> <tr> <th>Ambient Temp. [°C]</th><th>Load 50% Ripple Output Volt. [mV]</th><th>Load 100% Ripple Output Volt. [mV]</th></tr> </thead> <tbody> <tr><td>-20</td><td>40</td><td>55</td></tr> <tr><td>-10</td><td>30</td><td>45</td></tr> <tr><td>0</td><td>25</td><td>40</td></tr> <tr><td>10</td><td>20</td><td>35</td></tr> <tr><td>20</td><td>20</td><td>35</td></tr> <tr><td>25</td><td>20</td><td>35</td></tr> <tr><td>30</td><td>20</td><td>35</td></tr> <tr><td>40</td><td>15</td><td>30</td></tr> <tr><td>50</td><td>15</td><td>25</td></tr> <tr><td>60</td><td>15</td><td>25</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>	Ambient Temp. [°C]	Load 50% Ripple Output Volt. [mV]	Load 100% Ripple Output Volt. [mV]	-20	40	55	-10	30	45	0	25	40	10	20	35	20	20	35	25	20	35	30	20	35	40	15	30	50	15	25	60	15	25	—	—	—
Ambient Temp. [°C]	Load 50% Ripple Output Volt. [mV]	Load 100% Ripple Output Volt. [mV]																																				
-20	40	55																																				
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50	15	25																																				
60	15	25																																				
—	—	—																																				

COSEL

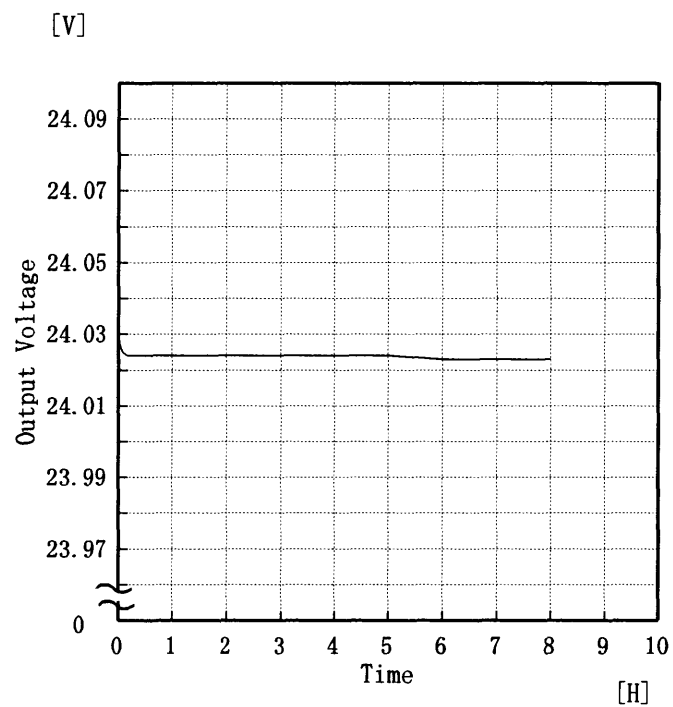
Model LDA300W-24

Item Time Lapse Drift 経時ドリフト

Object +24V14A

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	24.032
0.5	24.024
1.0	24.024
2.0	24.024
3.0	24.024
4.0	24.024
5.0	24.024
6.0	24.023
7.0	24.023
8.0	24.023

COSEL

Model		LDA300W-24	Testing Circuitry Figure A
Item		Output Voltage Accuracy 定電圧精度	
Object		+24V14A	

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 : 0~14 A

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

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

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

負過電流 : 0~14 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 (Ratio) [%]
Maximum Voltage	-10	132	0	24.039	±23	±0.096
Minimum Voltage	50	85	14	23.993		

COSEL

Model		LDA300W-24	Testing Circuitry Figure A	
Item		Condensation 結露特性		
Object		+24V14A		

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 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℃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	24.06	35	50
	2	24.06	35	50
	3	24.06	35	50
Load 100 %	1	24.06	35	50
	2	24.06	35	50
	3	24.06	35	50

Input Volt. 100 V

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BC-0700

COSEL

Model		LDA300W-24	Testing Circuitry Figure B
Item		Leakage Current 漏洩電流	
Object		+24V14A	

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

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

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。

Load 100 %

COSEL

		Testing Circuitry Figure C
Model	LDA300W-24	
Item	Line Noise Tolerance 入力雑音耐量	
Object	+24V14A	

1. Results

Pulse Width [n S]	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	30.49	no regulation
	NORMAL	30.49	no regulation
1000	COMMON	30.49	no regulation
	NORMAL	30.49	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-24
Item	Conducted Emission 雑音端子電圧
Object	+24V14A

Testing Circuitry Figure D

1. Graph

Remarks

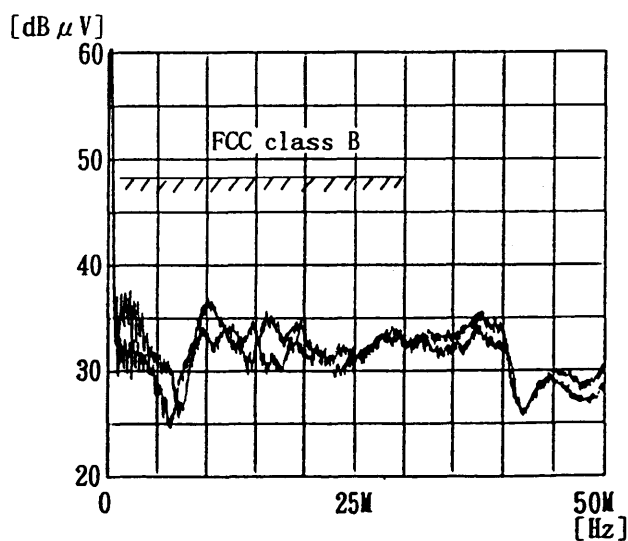
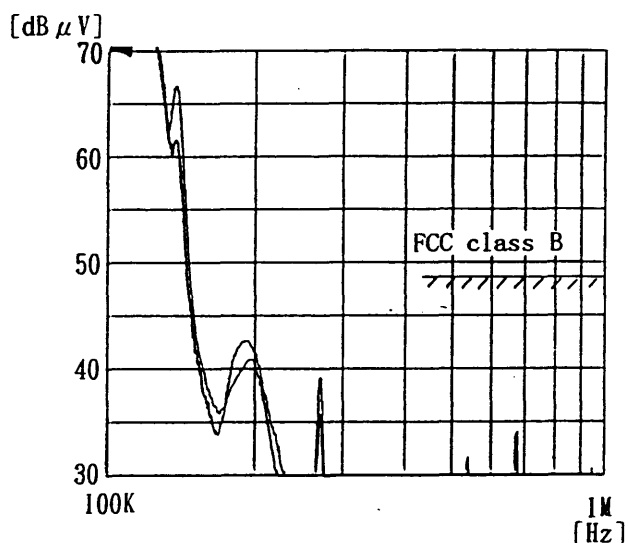
Input Volt. 120 V

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



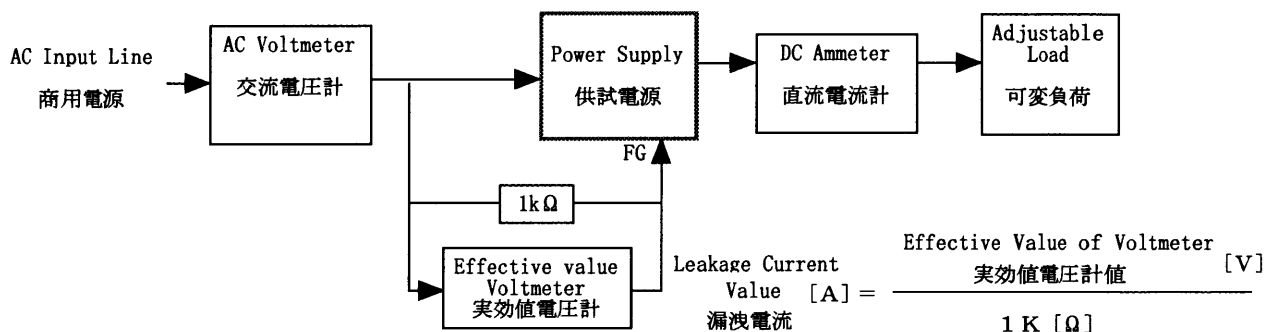
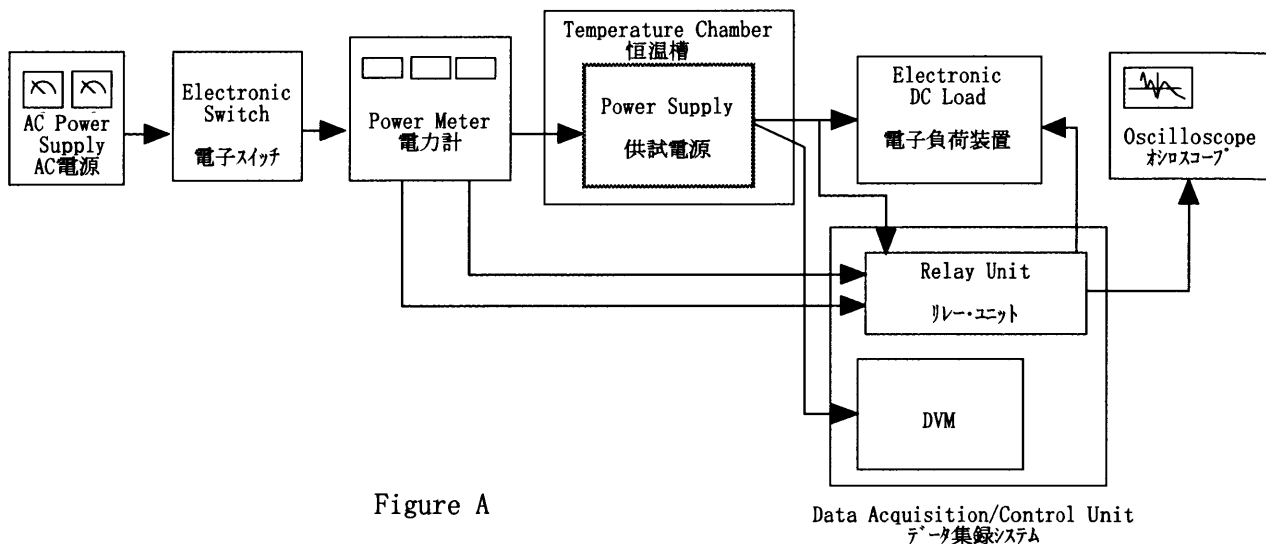


Figure B (DENTORI)

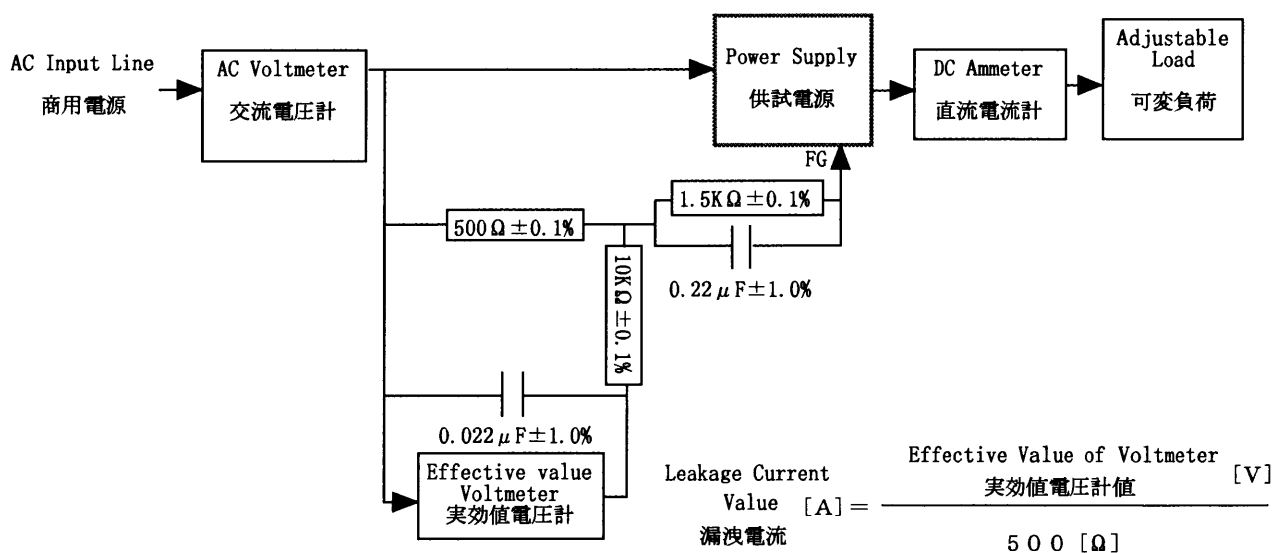


Figure B (UL, CSA, VDE)

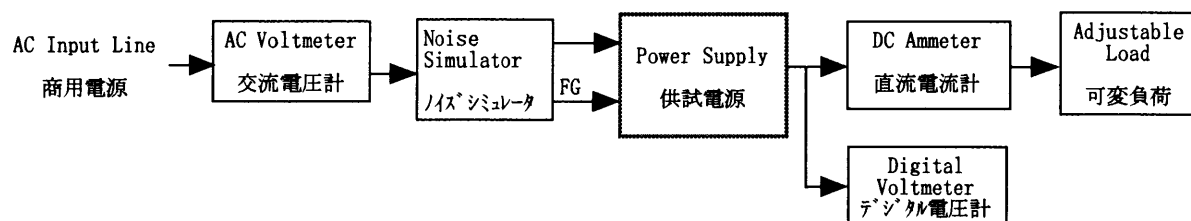


Figure C

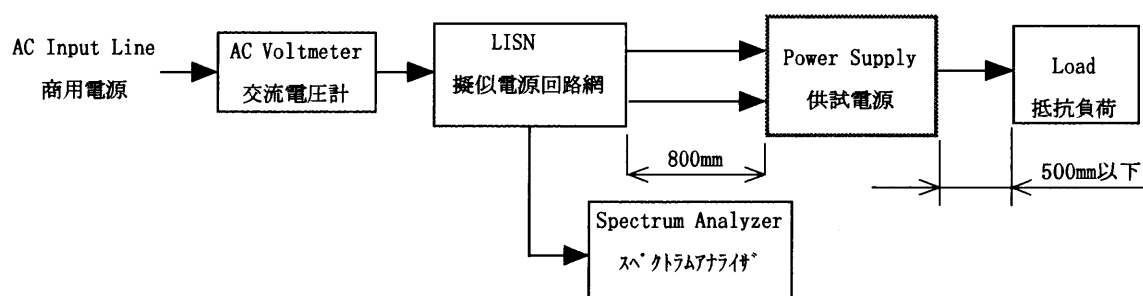


Figure D

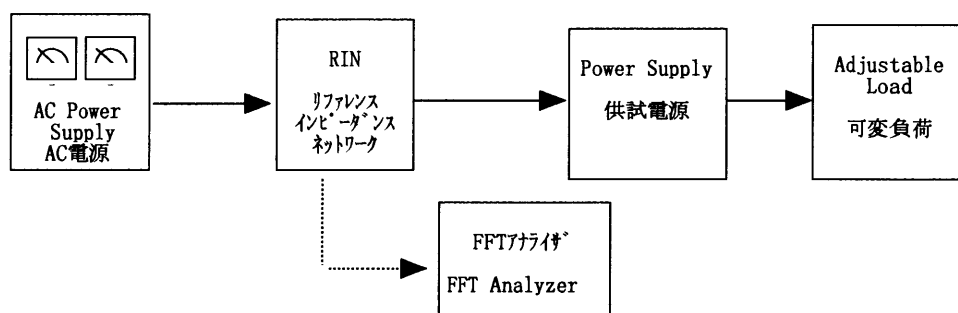


Figure E