



TEST DATA OF LDA300W-12

(100V INPUT)

Regulated DC Power Supply

Date : Feb. 22. 1997

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コーセル株式会社

COSEL CO., LTD.

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(Final Page 23)

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Model	LDA300W-12
Item	Line Regulation 静的入力変動
Object	+12V27A

Temperature	25℃
Testing Circuitry	Figure A

1. Graph

-----□-----

Load 50%

-----△-----

Load 100%

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]	Load 50%	Load 100%
	Output Volt. [V]	Output Volt. [V]
75	12.027	12.027
80	12.028	12.028
85	12.028	12.028
90	12.028	12.028
100	12.028	12.028
110	12.028	12.028
120	12.028	12.028
132	12.028	12.028
140	12.028	12.028

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Model		LDA300W-12	Temperature Testing Circuitry	25℃ Figure A
Item		Efficiency 効率		
Object				

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。

2. Values

Input Voltage [V]	Load 50%	Load 100%
	Efficiency [%]	Efficiency [%]
75	79.72	77.35
80	80.33	78.09
85	80.56	78.85
90	80.73	79.23
100	80.85	80.00
110	80.77	80.59
120	80.53	81.00
132	80.33	81.20
140	79.97	81.20

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Model		LDA300W-12	Temperature Testing Circuitry	25℃ Figure A																														
Item		Hold-Up Time 出力保持時間																																
Object		+12V27A																																
1. Graph		<div><div>-----□----- Load 50%</div><div>-----△----- Load 100%</div></div> <div><p>[mS]</p><p>Hold-Up Time</p><p>Input Voltage [V]</p></div>	2. Values																															
		<table><tr><th>Input Voltage [V]</th><th>Load 50% Hold-Up Time [mS]</th><th>Load 100% Hold-Up Time [mS]</th></tr><tr><td>75</td><td>25</td><td>5</td></tr><tr><td>80</td><td>33</td><td>9</td></tr><tr><td>85</td><td>41</td><td>13</td></tr><tr><td>90</td><td>50</td><td>18</td></tr><tr><td>100</td><td>69</td><td>28</td></tr><tr><td>110</td><td>90</td><td>38</td></tr><tr><td>120</td><td>114</td><td>50</td></tr><tr><td>132</td><td>144</td><td>66</td></tr><tr><td>140</td><td>167</td><td>77</td></tr></table>	Input Voltage [V]	Load 50% Hold-Up Time [mS]	Load 100% Hold-Up Time [mS]	75	25	5	80	33	9	85	41	13	90	50	18	100	69	28	110	90	38	120	114	50	132	144	66	140	167	77		
Input Voltage [V]	Load 50% Hold-Up Time [mS]	Load 100% Hold-Up Time [mS]																																
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140	167	77																																
		<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>																																

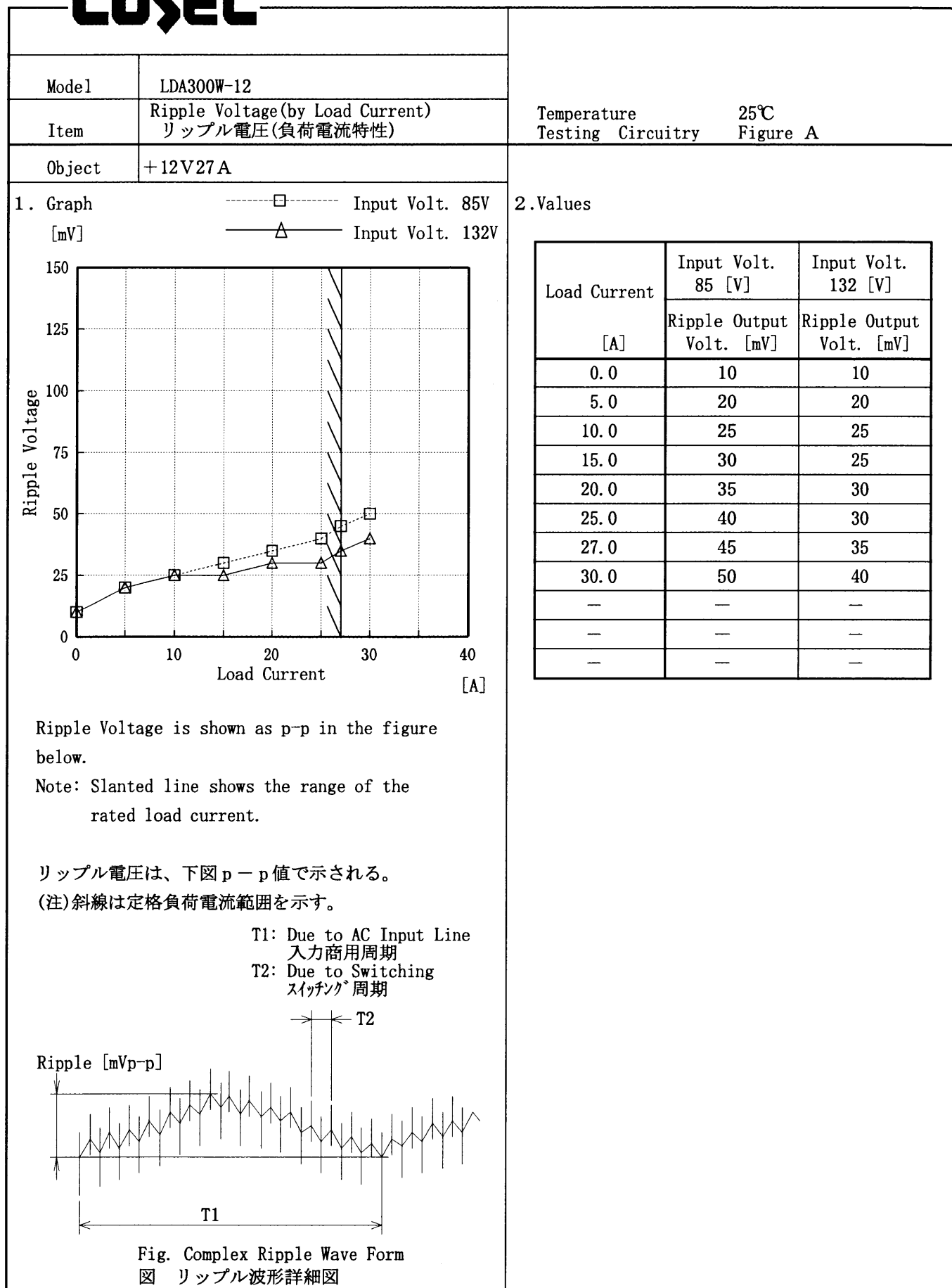
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Model		LDA300W-12	Testing Circuitry Figure A 25°C																																																		
Item		Instantaneous Interruption Compensation 瞬時停電保障																																																			
Object		+12V 27A																																																			
1. Graph		<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> <p>Instantaneous Compensation Time [mS]</p> <p>Load Current [A]</p> <p>This duration covers from Shut-off of AC-IN to the moment when output voltage descends to its 95% of the rated.</p> <p>Note: Slanted line shows the range of the rated load current.</p> <p>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。</p> <p>(注)斜線は定格負荷電流範囲を示す。</p>	2. Values																																																		
		<table> <tr> <th rowspan="2">Load Current [A]</th><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr> <tr> <th colspan="3">Time [mS]</th></tr> <tr><td>0.0</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>5.0</td><td>91</td><td>162</td><td>346</td></tr> <tr><td>10.0</td><td>43</td><td>74</td><td>177</td></tr> <tr><td>15.0</td><td>26</td><td>50</td><td>113</td></tr> <tr><td>20.0</td><td>16</td><td>34</td><td>82</td></tr> <tr><td>25.0</td><td>10</td><td>26</td><td>63</td></tr> <tr><td>27.0</td><td>8</td><td>22</td><td>56</td></tr> <tr><td>30.0</td><td>6</td><td>18</td><td>52</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 Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	Time [mS]			0.0	—	—	—	5.0	91	162	346	10.0	43	74	177	15.0	26	50	113	20.0	16	34	82	25.0	10	26	63	27.0	8	22	56	30.0	6	18	52	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																		
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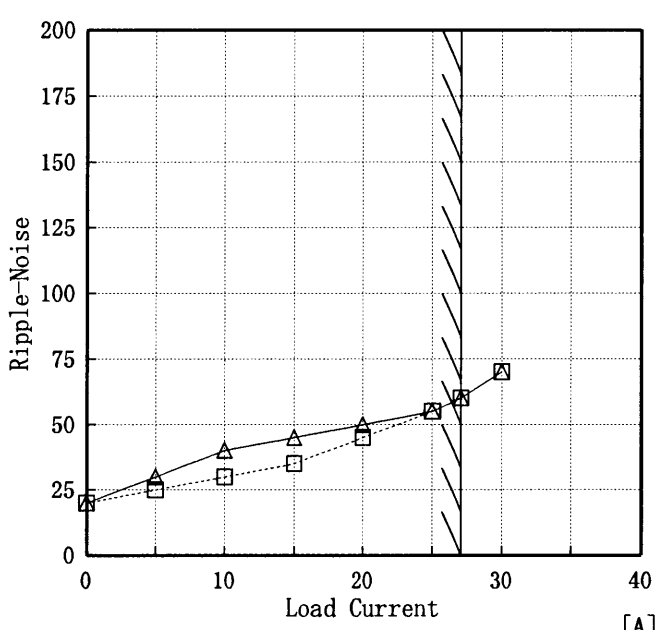
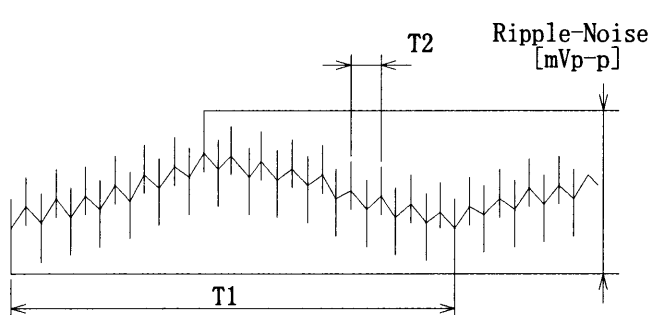
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Model		LDA300W-12	Temperature		25℃																																																			
Item		Load Regulation 静的負荷変動	Testing Circuitry		Figure A																																																			
Object		+12V27A																																																						
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<div><div><div>△</div><div>Input Volt. 100V</div></div><div><div>□</div><div>Input Volt. 100V</div></div><div><div>○</div><div>Input Volt. 132V</div></div></div> <div><div><div>[V]</div><div>Output Voltage</div><div>12.10</div><div>12.08</div><div>12.06</div><div>12.04</div><div>12.02</div><div>12.00</div><div>11.98</div><div>0</div></div><div><div>0</div><div>10</div><div>20</div><div>30</div><div>40</div></div><div><div>Load Current</div><div>[A]</div></div></div> <div><div>Note: Slanted line shows the range of the rated load current.</div><div>(注)斜線は定格負荷電流範囲を示す。</div></div>			<table><tr><th rowspan="2">Load Current</th><th>Input Volt.</th><th>Input Volt.</th><th>Input Volt.</th></tr><tr><th>100[V]</th><th>100[V]</th><th>132[V]</th></tr><tr><th>[A]</th><th>Output Volt. [V]</th><th>Output Volt. [V]</th><th>Output Volt. [V]</th></tr><tr><td>0.0</td><td>12.036</td><td>12.036</td><td>12.036</td></tr><tr><td>4.0</td><td>12.034</td><td>12.034</td><td>12.034</td></tr><tr><td>8.0</td><td>12.033</td><td>12.033</td><td>12.033</td></tr><tr><td>12.0</td><td>12.031</td><td>12.032</td><td>12.032</td></tr><tr><td>16.0</td><td>12.030</td><td>12.030</td><td>12.031</td></tr><tr><td>20.0</td><td>12.029</td><td>12.029</td><td>12.030</td></tr><tr><td>24.0</td><td>12.028</td><td>12.028</td><td>12.029</td></tr><tr><td>27.0</td><td>12.027</td><td>12.027</td><td>12.028</td></tr><tr><td>29.7</td><td>12.026</td><td>12.027</td><td>12.027</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>			Load Current	Input Volt.	Input Volt.	Input Volt.	100[V]	100[V]	132[V]	[A]	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]	0.0	12.036	12.036	12.036	4.0	12.034	12.034	12.034	8.0	12.033	12.033	12.033	12.0	12.031	12.032	12.032	16.0	12.030	12.030	12.031	20.0	12.029	12.029	12.030	24.0	12.028	12.028	12.029	27.0	12.027	12.027	12.028	29.7	12.026	12.027	12.027	—	—	—	—
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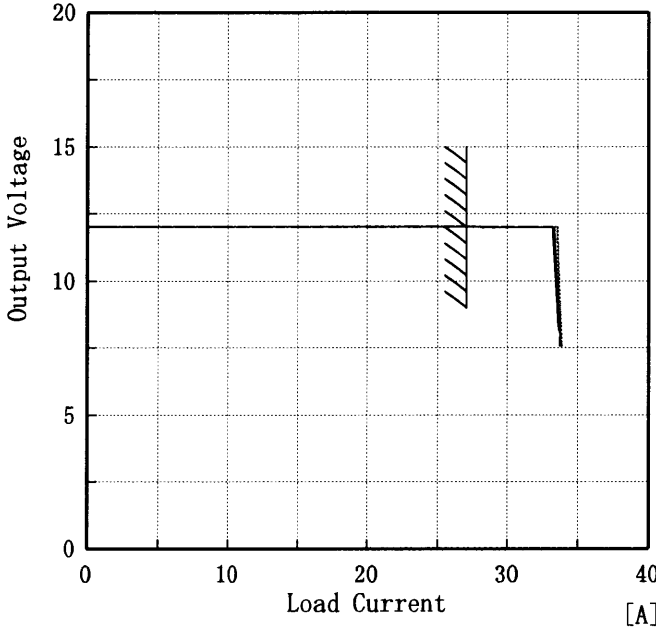
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Model LDA300W-12		Temperature 25°C Testing Circuitry Figure A																																						
Item	Ripple-Noise リップルノイズ																																							
Object	+12V 27A																																							
<p>1. Graph</p> <p>-----□----- Input Volt. 85V -----△----- Input Volt. 132V</p>  <p>Ripple-Noise is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p> <p>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。</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Load current [A]</th><th>Input Volt. 85 [V]</th><th>Input Volt. 132 [V]</th></tr> <tr> <th>Ripple-Noise [mV]</th><th>Ripple-Noise [mV]</th></tr> </thead> <tbody> <tr><td>0.0</td><td>20</td><td>20</td></tr> <tr><td>5.0</td><td>25</td><td>30</td></tr> <tr><td>10.0</td><td>30</td><td>40</td></tr> <tr><td>15.0</td><td>35</td><td>45</td></tr> <tr><td>20.0</td><td>45</td><td>50</td></tr> <tr><td>25.0</td><td>55</td><td>55</td></tr> <tr><td>27.0</td><td>60</td><td>60</td></tr> <tr><td>30.0</td><td>70</td><td>70</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>	Load current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]	Ripple-Noise [mV]	Ripple-Noise [mV]	0.0	20	20	5.0	25	30	10.0	30	40	15.0	35	45	20.0	45	50	25.0	55	55	27.0	60	60	30.0	70	70	—	—	—	—	—	—	—	—	—
Load current [A]	Input Volt. 85 [V]	Input Volt. 132 [V]																																						
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30.0	70	70																																						
—	—	—																																						
—	—	—																																						
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<p>T1: Due to AC Input Line 入力商用周期 T2: Due to Switching スイッチング周期</p>  <p>Fig. Complex Ripple Wave Form 図 リップル波形詳細図</p>																																								

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Model		LDA300W-12		Temperature 25℃	
Item		Overcurrent Protection 過電流保護		Testing Circuitry Figure A	
Object		+12V27A			
1. Graph		<div><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>		2. Values	
[V]					
					
Note: Slanted line shows the range of the rated load current.					
Hiccup operation occurs when the output voltage is under 8V.					
(注)斜線は定格負荷電流範囲を示す。					
8 V 以下は間欠動作となる。					

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

Hiccap operation occurs when the output voltage is under 8V.

(注)斜線は定格負荷電流範囲を示す。

8 V 以下は間欠動作となる。

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Model LDA300W-12

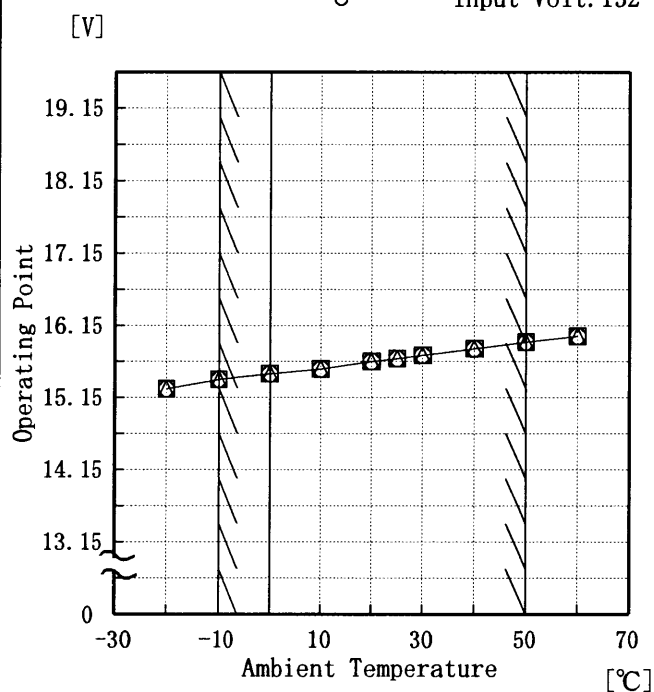
Item Overvoltage Protection
過電圧保護

Object +12V27A

Testing Circuitry Figure A

1. Graph

—△— Input Volt. 85 V
 - - -□- - - Input Volt. 100 V
 - - -○- - - Input Volt. 132 V

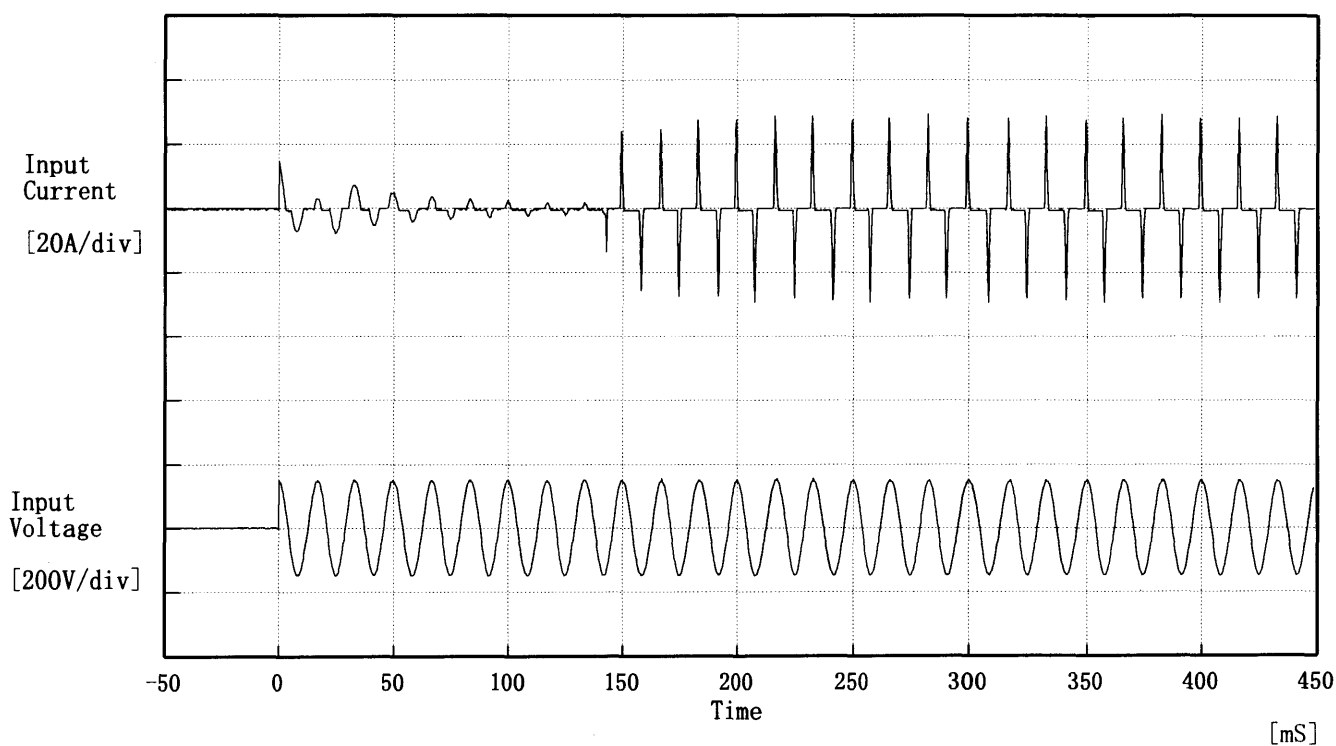


2. Values

Ambient Temp. [°C]	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
Operating Point [V]			
-20	15.27	15.27	15.27
-10	15.40	15.40	15.40
0	15.48	15.48	15.48
10	15.55	15.55	15.55
20	15.65	15.65	15.65
25	15.69	15.69	15.69
30	15.74	15.74	15.74
40	15.83	15.83	15.83
50	15.92	15.92	15.92
60	16.00	16.00	16.00
—	—	—	—

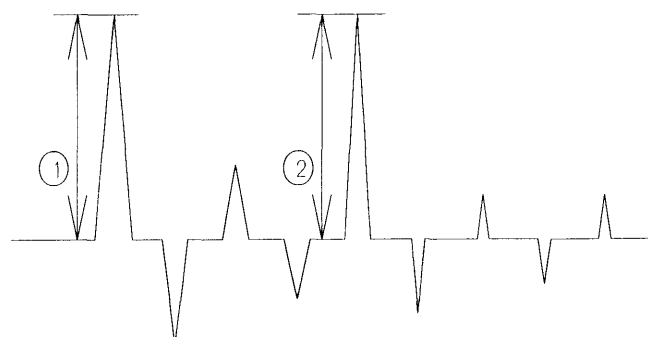
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Model	LDA300W-12	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current 突入電流	
Object		



Input Voltage 100 V
Frequency 60 Hz
Load 100 %

Inrush Current
① 15.00 [A]
② 29.40 [A]

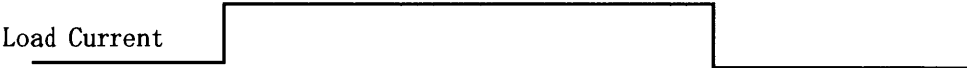




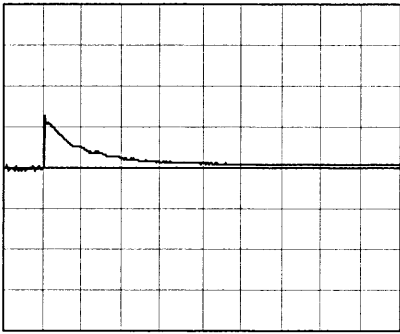
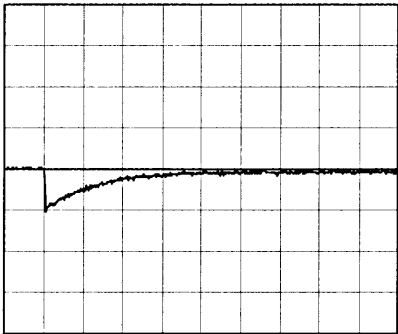
Model	LDA300W-12
Item	Dynamic Load Responce 動的負荷変動
Object	+12 V 27 A

Temperature 25℃
Testing Circuitry Figure A

Input Volt. 100 V
Cycle 1000 mS

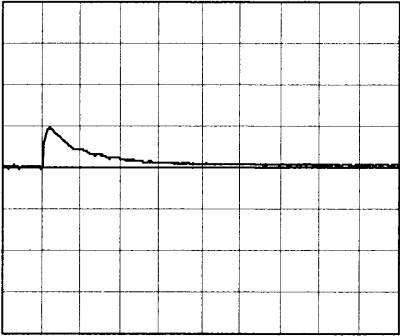
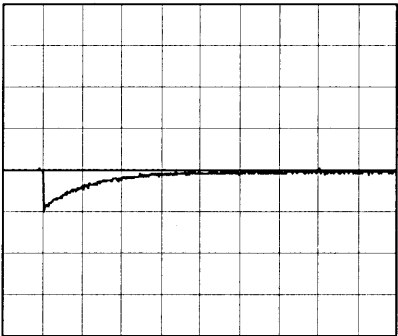


Min. Load ←→
Load 100 %



Min. Load ←→
Load 50 %

100 mV/div



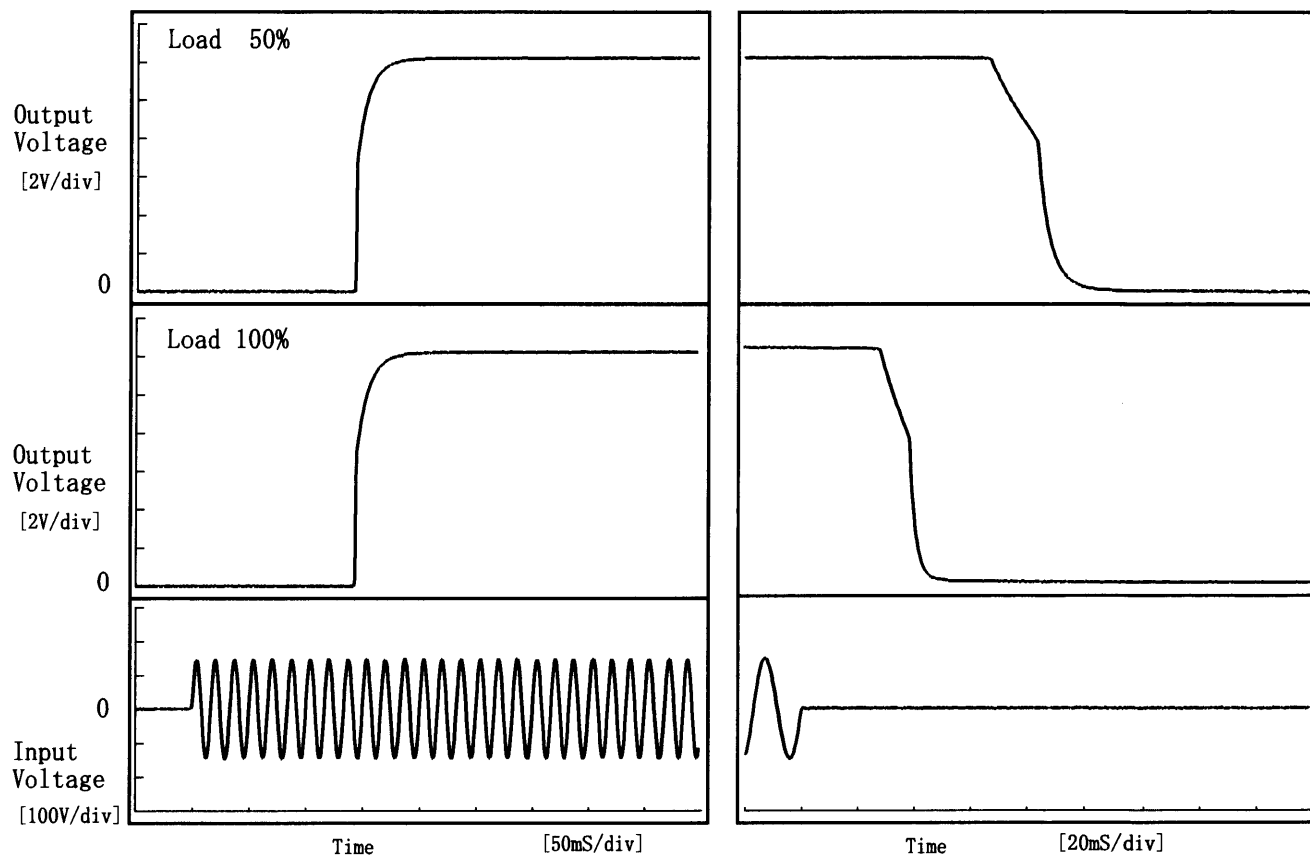
10 mV/div

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Model	LDA300W-12	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+12V27A		

1. Graph

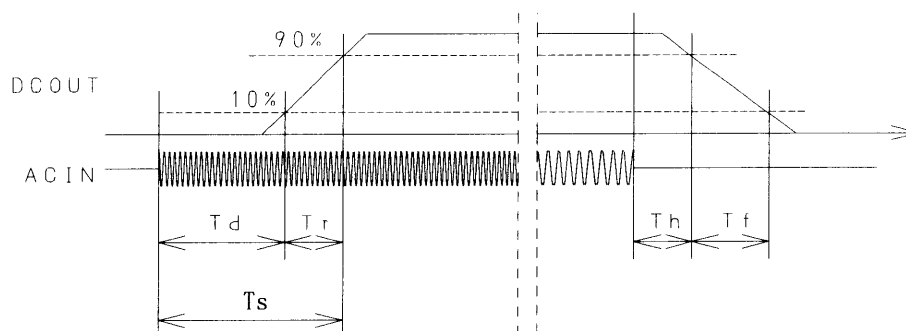
Input Volt. 100 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	142.8	15.3	158.0	71.8	20.7
100 %	143.3	15.3	158.5	31.3	11.8



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Model		LDA300W-12	Testing Circuitry Figure A																																																			
Item		Ambient Temperature Drift 周囲温度変動																																																				
Object		+12V27A																																																				
1. Graph		<div> <div> <div>△</div> <div>Input Volt. 100V</div> </div> <div> <div>□</div> <div>Input Volt. 100V</div> </div> <div> <div>○</div> <div>Input Volt. 132V</div> </div> </div> <p>Output Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</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>Temperature</th><th>Input Volt. 100[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr> <tr> <th>Output Volt. [V]</th><th>Output Volt. [V]</th><th>Output Volt. [V]</th><th></th></tr> <tr><td>-20</td><td>12.051</td><td>12.052</td><td>12.052</td></tr> <tr><td>-10</td><td>12.046</td><td>12.046</td><td>12.047</td></tr> <tr><td>0</td><td>12.040</td><td>12.040</td><td>12.041</td></tr> <tr><td>10</td><td>12.035</td><td>12.035</td><td>12.035</td></tr> <tr><td>20</td><td>12.031</td><td>12.031</td><td>12.031</td></tr> <tr><td>25</td><td>12.028</td><td>12.029</td><td>12.029</td></tr> <tr><td>30</td><td>12.025</td><td>12.025</td><td>12.026</td></tr> <tr><td>40</td><td>12.019</td><td>12.019</td><td>12.020</td></tr> <tr><td>50</td><td>12.013</td><td>12.013</td><td>12.014</td></tr> <tr><td>60</td><td>12.005</td><td>12.005</td><td>12.005</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> </table>		Temperature	Input Volt. 100[V]	Input Volt. 100[V]	Input Volt. 132[V]	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]		-20	12.051	12.052	12.052	-10	12.046	12.046	12.047	0	12.040	12.040	12.041	10	12.035	12.035	12.035	20	12.031	12.031	12.031	25	12.028	12.029	12.029	30	12.025	12.025	12.026	40	12.019	12.019	12.020	50	12.013	12.013	12.014	60	12.005	12.005	12.005	—	—	—
Temperature	Input Volt. 100[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																			
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COSEL

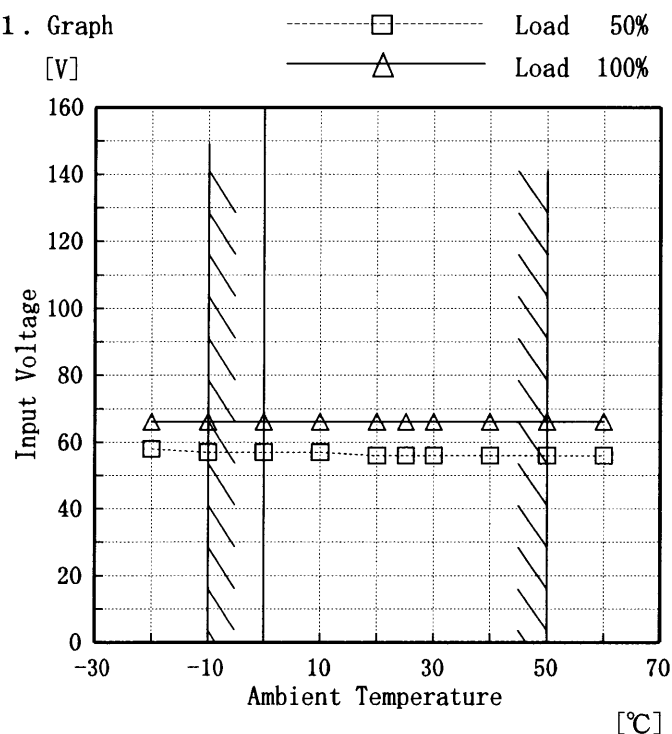
Model LDA300W-12

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

Object +12V27A

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%	Load 100%
	Input Volt. [V]	Input Volt. [V]
-20	58	66
-10	57	66
0	57	66
10	57	66
20	56	66
25	56	66
30	56	66
40	56	66
50	56	66
60	56	66
—	—	—

COSEL

Model		LDA300W-12	Testing Circuitry	Figure A																																		
Item		Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)																																				
Object		+12V27A																																				
1. Graph		<div><div>-----□-----</div>Load 50%</div> <div><div>-----△-----</div>Load 100%</div> <div><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></div>	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>55</td><td>80</td></tr><tr><td>-10</td><td>50</td><td>70</td></tr><tr><td>0</td><td>40</td><td>60</td></tr><tr><td>10</td><td>35</td><td>50</td></tr><tr><td>20</td><td>30</td><td>45</td></tr><tr><td>25</td><td>30</td><td>45</td></tr><tr><td>30</td><td>25</td><td>40</td></tr><tr><td>40</td><td>25</td><td>35</td></tr><tr><td>50</td><td>20</td><td>35</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	55	80	-10	50	70	0	40	60	10	35	50	20	30	45	25	30	45	30	25	40	40	25	35	50	20	35	60	20	30	—	—
Ambient Temp. [°C]	Load 50% Ripple Output Volt. [mV]	Load 100% Ripple Output Volt. [mV]																																				
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40	25	35																																				
50	20	35																																				
60	20	30																																				
—	—	—																																				

COSEL

Model	LDA300W-12	Temperature	25 ℃																						
Item	Time Lapse Drift 経時ドリフト	Testing Circuitry	Figure A																						
Object	+12V27 A																								
1. Graph		2.Values																							
<p>[V]</p> <p>Output Voltage [V]</p> <p>Time [H]</p> <p>Input Volt. 100V</p> <p>Load 100%</p>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>12.034</td></tr><tr><td>0.5</td><td>12.030</td></tr><tr><td>1.0</td><td>12.030</td></tr><tr><td>2.0</td><td>12.030</td></tr><tr><td>3.0</td><td>12.030</td></tr><tr><td>4.0</td><td>12.030</td></tr><tr><td>5.0</td><td>12.030</td></tr><tr><td>6.0</td><td>12.030</td></tr><tr><td>7.0</td><td>12.030</td></tr><tr><td>8.0</td><td>12.030</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	12.034	0.5	12.030	1.0	12.030	2.0	12.030	3.0	12.030	4.0	12.030	5.0	12.030	6.0	12.030	7.0	12.030	8.0	12.030
Time since start [H]	Output Voltage [V]																								
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7.0	12.030																								
8.0	12.030																								

COSEL

Model		LDA300W-12	Testing Circuitry Figure A
Item		Output Voltage Accuracy 定電圧精度	
Object		+12V27A	

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 : 100~132 V

Load Current : 0~27 A

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

Voltage Accuracy

* 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 : 100~132 V

負過電流 : 0~27 A

* 定電圧精度(変動値) = $\pm (\text{出力電圧の最高値} - \text{出力電圧の最低値}) / 2$

変動値

* 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	0	12.046	±17	±0.142
Minimum Voltage	50	100	27	12.012		

COSEL

Model		LDA300W-12	Testing Circuitry Figure A	
Item		Condensation 結露特性		
Object		+12V27A		

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	12.03	40	60
	2	12.03	40	60
	3	12.03	40	60
Load 100 %	1	12.03	40	60
	2	12.03	40	60
	3	12.03	40	60

Input Volt. 100 V

-18-

BC-0696

COSEL

Model		LDA300W-12	Testing Circuitry Figure B
Item		Leakage Current 漏洩電流	
Object		+12V27A	

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

Model		LDA300W-12	Testing Circuitry Figure C
Item		Line Noise Tolerance 入力雑音耐量	
Object		+12V27A	

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	15.64	no regulation
	NORMAL	15.64	no regulation
1000	COMMON	15.64	no regulation
	NORMAL	15.64	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-12	Testing Circuitry Figure D
Item	Conducted Emission 雑音端子電圧	
Object	+12V27A	

1. Graph

Remarks

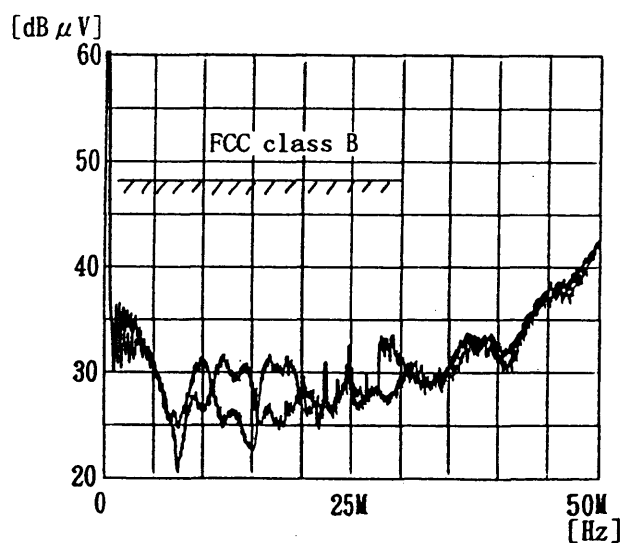
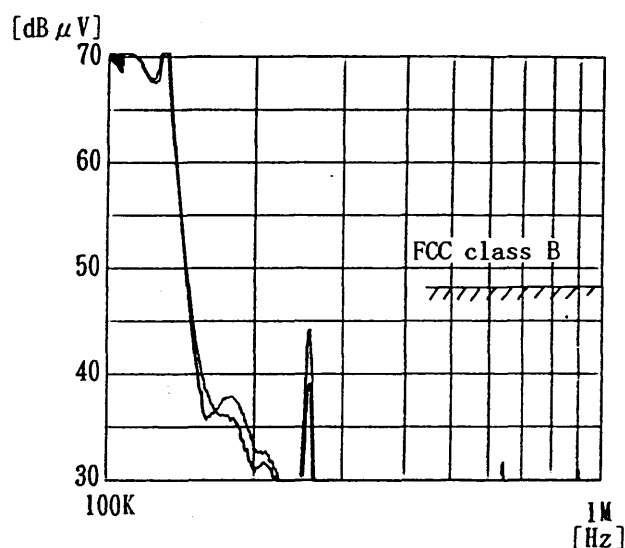
Input Volt. 120 V

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/μV]
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



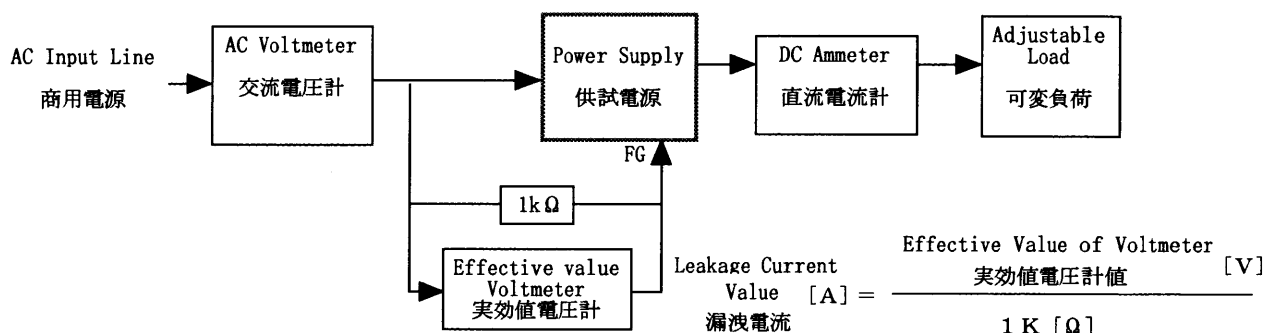
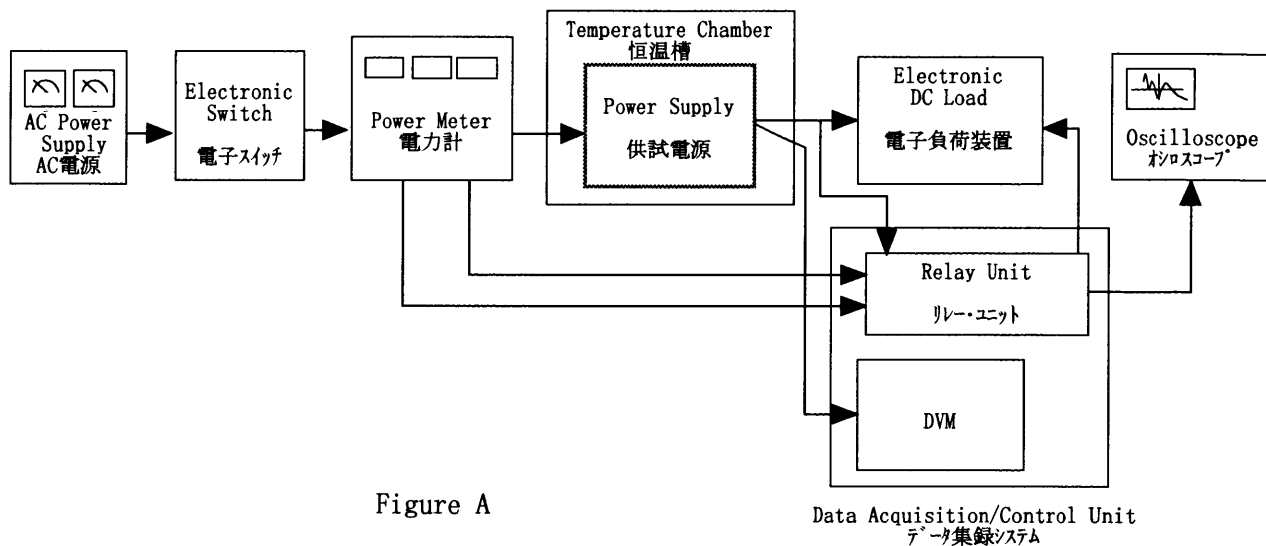


Figure B (DENTORI)

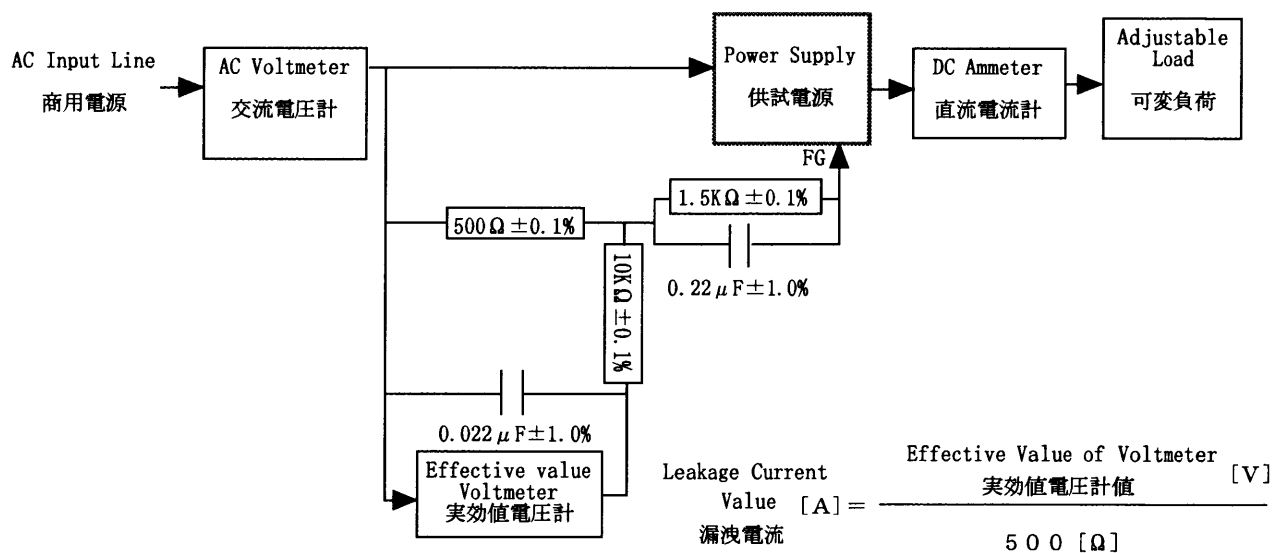


Figure B (UL, CSA, VDE)

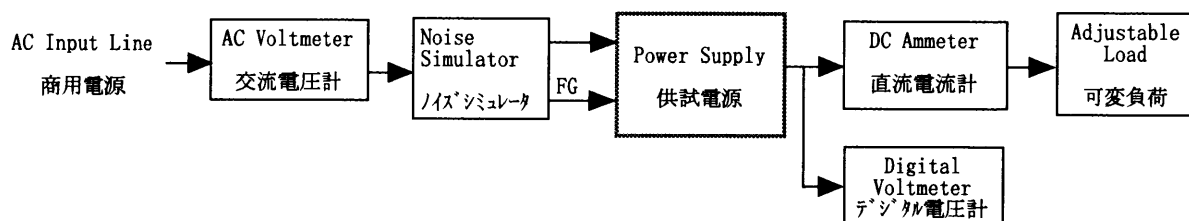


Figure C

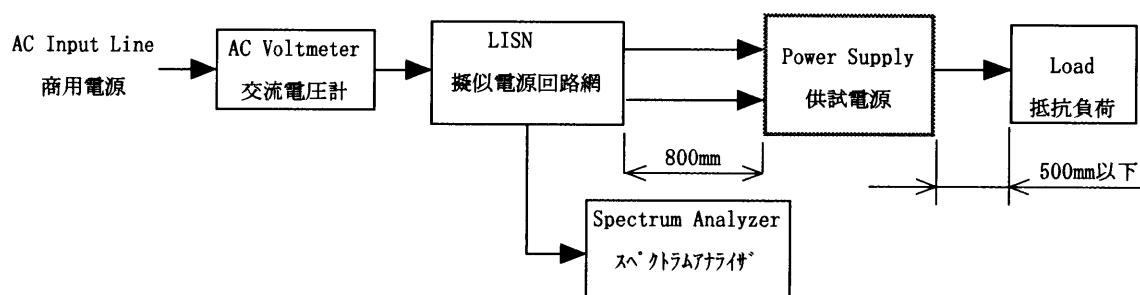


Figure D

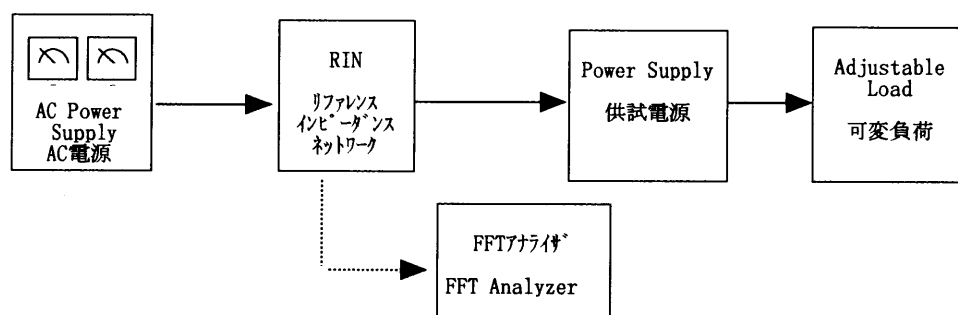


Figure E