



TEST DATA OF LDA50F-24 (200V INPUT)

Regulated DC Power Supply

Aug. 23, 1999

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Design Manager

Prepared by : T. Ashihara
Design Engineer

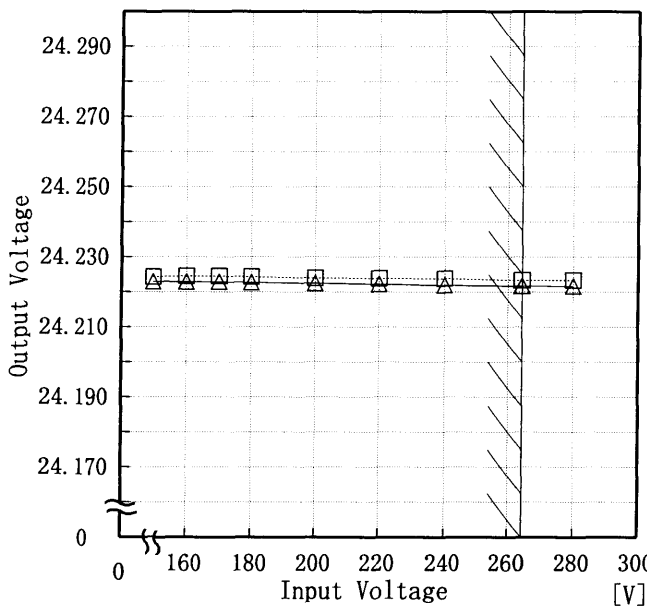
コーセル株式会社
COSEL CO., LTD.

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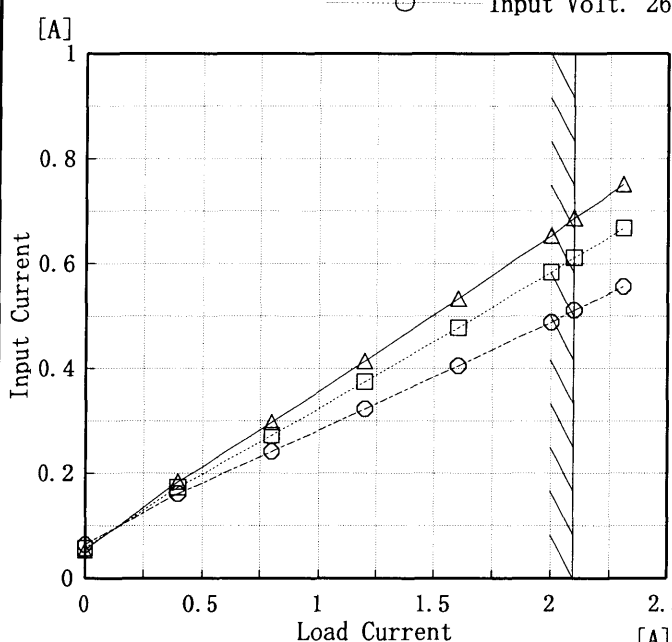
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Model LDA50F-24		Temperature 25°C Testing Circuitry Figure A																																
Item	Line Regulation 静的入力変動																																	
Object	+24.0V2.1A																																	
<p>1. Graph</p> <p>-----□----- Load 50% -----△----- Load 100%</p> <p>[V]</p>  <p>Output Voltage [V]</p> <p>Input Voltage [V]</p> <p>Note: Slanted line shows the range of the rated input voltage.</p> <p>(注)斜線は定格入力電圧範囲を示す。</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th><th colspan="2">Output Voltage [V]</th></tr> <tr> <th>Load 50%</th><th>Load 100%</th></tr> </thead> <tbody> <tr><td>150</td><td>24.224</td><td>24.223</td></tr> <tr><td>160</td><td>24.225</td><td>24.223</td></tr> <tr><td>170</td><td>24.225</td><td>24.223</td></tr> <tr><td>180</td><td>24.224</td><td>24.223</td></tr> <tr><td>200</td><td>24.224</td><td>24.223</td></tr> <tr><td>220</td><td>24.224</td><td>24.222</td></tr> <tr><td>240</td><td>24.224</td><td>24.222</td></tr> <tr><td>264</td><td>24.223</td><td>24.222</td></tr> <tr><td>280</td><td>24.223</td><td>24.222</td></tr> </tbody> </table>	Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	150	24.224	24.223	160	24.225	24.223	170	24.225	24.223	180	24.224	24.223	200	24.224	24.223	220	24.224	24.222	240	24.224	24.222	264	24.223	24.222	280	24.223	24.222
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Model		LDA50F-24		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>—○—</div></div><div>Input Volt. 170V</div><div>Input Volt. 200V</div><div>Input Volt. 264V</div></div> <div><div><div>1</div><div>0.8</div><div>0.6</div><div>0.4</div><div>0.2</div><div>0</div></div><div>Input Current [A]</div><div><div>0</div><div>0.5</div><div>1</div><div>1.5</div><div>2</div><div>2.5</div></div><div>Load Current [A]</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>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Current [A]</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>0.00</td><td>0.054</td><td>0.057</td><td>0.064</td></tr><tr><td>0.40</td><td>0.184</td><td>0.174</td><td>0.161</td></tr><tr><td>0.80</td><td>0.298</td><td>0.273</td><td>0.242</td></tr><tr><td>1.20</td><td>0.414</td><td>0.375</td><td>0.323</td></tr><tr><td>1.60</td><td>0.533</td><td>0.478</td><td>0.405</td></tr><tr><td>2.00</td><td>0.654</td><td>0.584</td><td>0.488</td></tr><tr><td>2.10</td><td>0.687</td><td>0.611</td><td>0.511</td></tr><tr><td>2.31</td><td>0.751</td><td>0.668</td><td>0.556</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 Current [A]	Input Current [A]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0.00	0.054	0.057	0.064	0.40	0.184	0.174	0.161	0.80	0.298	0.273	0.242	1.20	0.414	0.375	0.323	1.60	0.533	0.478	0.405	2.00	0.654	0.584	0.488	2.10	0.687	0.611	0.511	2.31	0.751	0.668	0.556	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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Model	LDA50F-24	Temperature	25°C
Item	Input Power (by Load Current) 入力電力 (負荷特性)	Testing Circuitry	Figure A
Output	_____		

1. Graph

—△— Input Volt. 170V

—□— Input Volt. 200V

—○— Input Volt. 264V

Input Power [W]

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。

2. Values

Load Current [A]	Input Power [W]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.00	3.20	3.90	5.50
0.40	14.80	15.70	18.10
0.80	25.50	26.40	28.80
1.20	36.10	37.00	39.60
1.60	47.00	47.80	50.10
2.00	58.00	58.60	60.80
2.10	60.60	61.20	63.50
2.31	66.60	67.20	69.30
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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Model

LDA50F-24

Item

Efficiency (by Input Voltage)
効率 (入力電圧特性)

Object

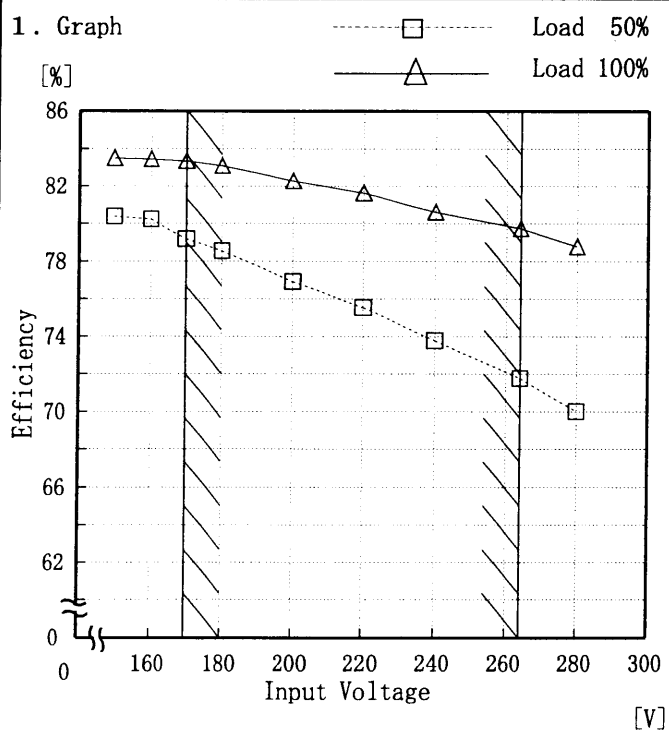
Temperature

25℃

Testing Circuitry

Figure A

1. Graph



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

(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%
150	80.4	83.5
160	80.2	83.4
170	79.2	83.3
180	78.5	83.1
200	76.9	82.3
220	75.5	81.7
240	73.8	80.6
264	71.8	79.7
280	70.0	78.8

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Model		LDA50F-24		Temperature		25℃																																																								
Item		Efficiency (by Load Current) 効率（負荷特性）		Testing Circuitry		Figure A																																																								
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<div><div>—△— Input Volt. 170V - - -□- - - Input Volt. 200V - - -○- - - Input Volt. 264V</div><p>Efficiency [%]</p><p>Load Current [A]</p><p>Note: Slanted line shows the range of the rated load current</p><p>(注) 斜線は定格負荷電流範囲を示す。</p></div>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Efficiency [%]</th></tr><tr><th>Input Volt. 170 [V]</th><th>Input Volt. 200 [V]</th><th>Input Volt. 264 [V]</th></tr><tr><td>0.40</td><td>65.7</td><td>61.8</td><td>53.8</td></tr><tr><td>0.80</td><td>76.1</td><td>73.4</td><td>67.3</td></tr><tr><td>1.20</td><td>80.3</td><td>78.4</td><td>73.2</td></tr><tr><td>1.60</td><td>81.9</td><td>80.6</td><td>77.0</td></tr><tr><td>2.00</td><td>83.0</td><td>82.2</td><td>79.1</td></tr><tr><td>2.10</td><td>83.3</td><td>82.3</td><td>79.4</td></tr><tr><td>2.31</td><td>83.4</td><td>82.7</td><td>80.3</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>				Load Current [A]	Efficiency [%]			Input Volt. 170 [V]	Input Volt. 200 [V]	Input Volt. 264 [V]	0.40	65.7	61.8	53.8	0.80	76.1	73.4	67.3	1.20	80.3	78.4	73.2	1.60	81.9	80.6	77.0	2.00	83.0	82.2	79.1	2.10	83.3	82.3	79.4	2.31	83.4	82.7	80.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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Model LDA50F-24		Temperature 25°C Testing Circuitry Figure A																																
Item	Hold-Up Time 出力保持時間																																	
Object	+24.0V2.1A																																	
<p>1. Graph</p> <p>-----□----- Load 50% -----△----- Load 100%</p> <p>[mS]</p> <p>Hold-Up Time</p> <p>Input Voltage [V]</p> <p>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.</p> <p>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。</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th><th colspan="2">Hold-Up Time [mS]</th></tr> <tr> <th>Load 50%</th><th>Load 100%</th></tr> </thead> <tbody> <tr><td>150</td><td>143</td><td>71</td></tr> <tr><td>160</td><td>165</td><td>82</td></tr> <tr><td>170</td><td>189</td><td>94</td></tr> <tr><td>180</td><td>214</td><td>107</td></tr> <tr><td>200</td><td>267</td><td>135</td></tr> <tr><td>220</td><td>326</td><td>166</td></tr> <tr><td>240</td><td>390</td><td>201</td></tr> <tr><td>264</td><td>474</td><td>246</td></tr> <tr><td>280</td><td>533</td><td>279</td></tr> </tbody> </table>	Input Voltage [V]	Hold-Up Time [mS]		Load 50%	Load 100%	150	143	71	160	165	82	170	189	94	180	214	107	200	267	135	220	326	166	240	390	201	264	474	246	280	533	279
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Model		LDA50F-24	Temperature Testing Circuitry	25℃ Figure A
Item		Instantaneous Interruption Compensation 瞬時停電保障		
Object		+24.0V2.1A		

1. Graph

—△—

Input Volt. 170 V

- -□- -

Input Volt. 200 V

...○...

Input Volt. 264 V

[mS]

1000

100

10

1

Instantaneous Compensation Time

0

0.5

1

1.5

2

2.5

[A]

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 load current.

瞬時停電保障時間とは、出力電圧が定電圧精度の規格範囲を保持している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]	Time [mS]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.00	—	—	—
0.40	449	623	1069
0.80	242	340	604
1.20	165	238	424
1.60	123	179	322
2.00	98	142	260
2.10	94	136	247
2.31	85	123	218
—	—	—	—
—	—	—	—
—	—	—	—

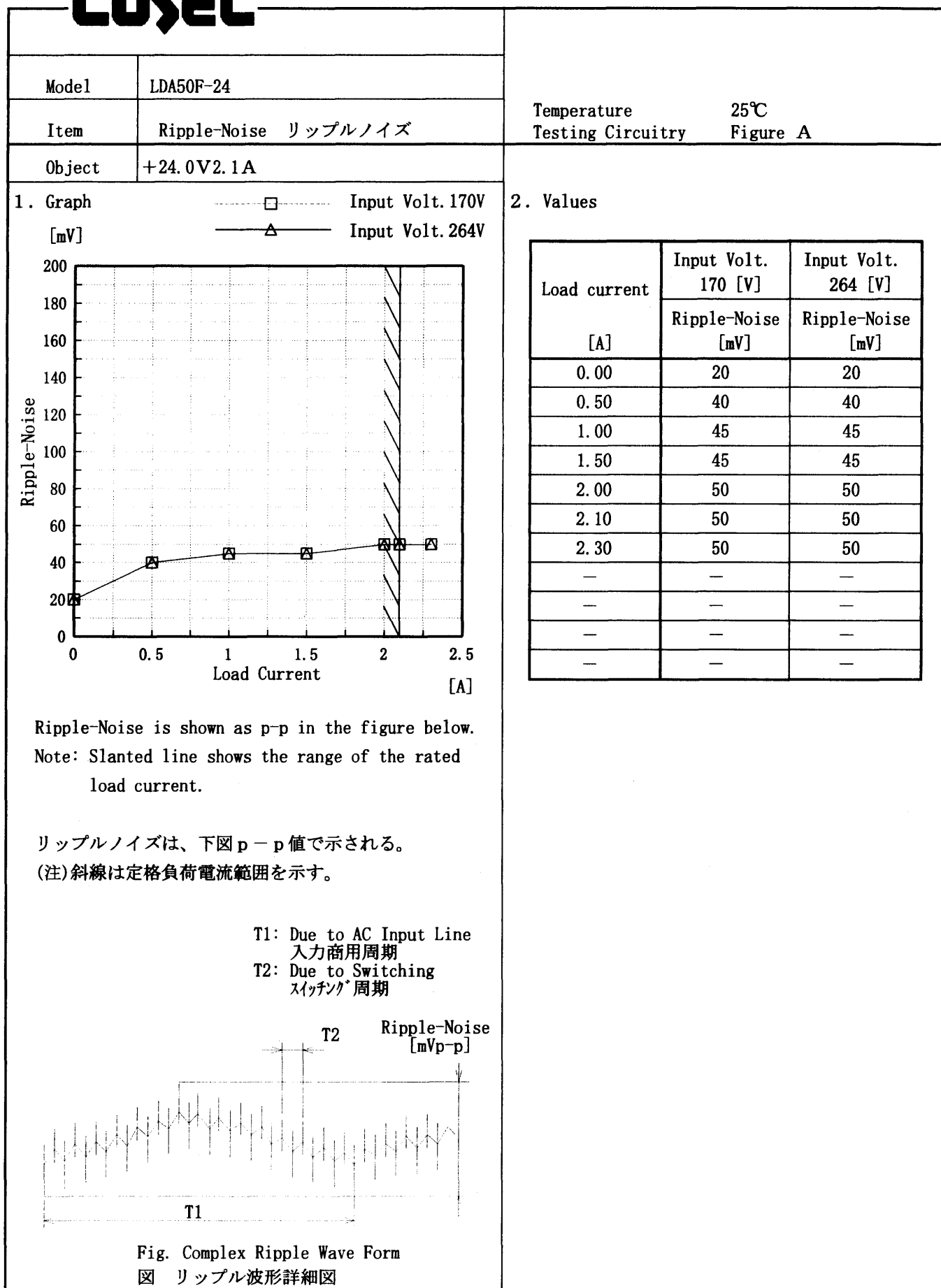
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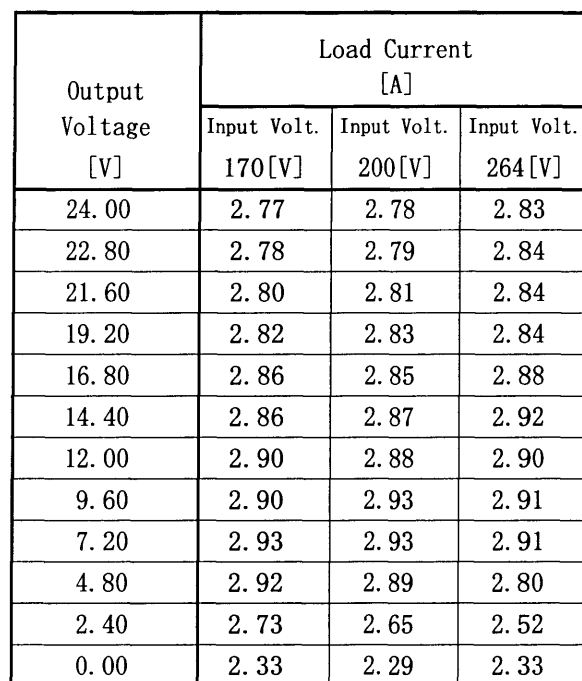
(注) 斜線は定格負荷電流範囲を示す。

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Temperature	25°C
Testing Circuitry	Figure A

2. Values



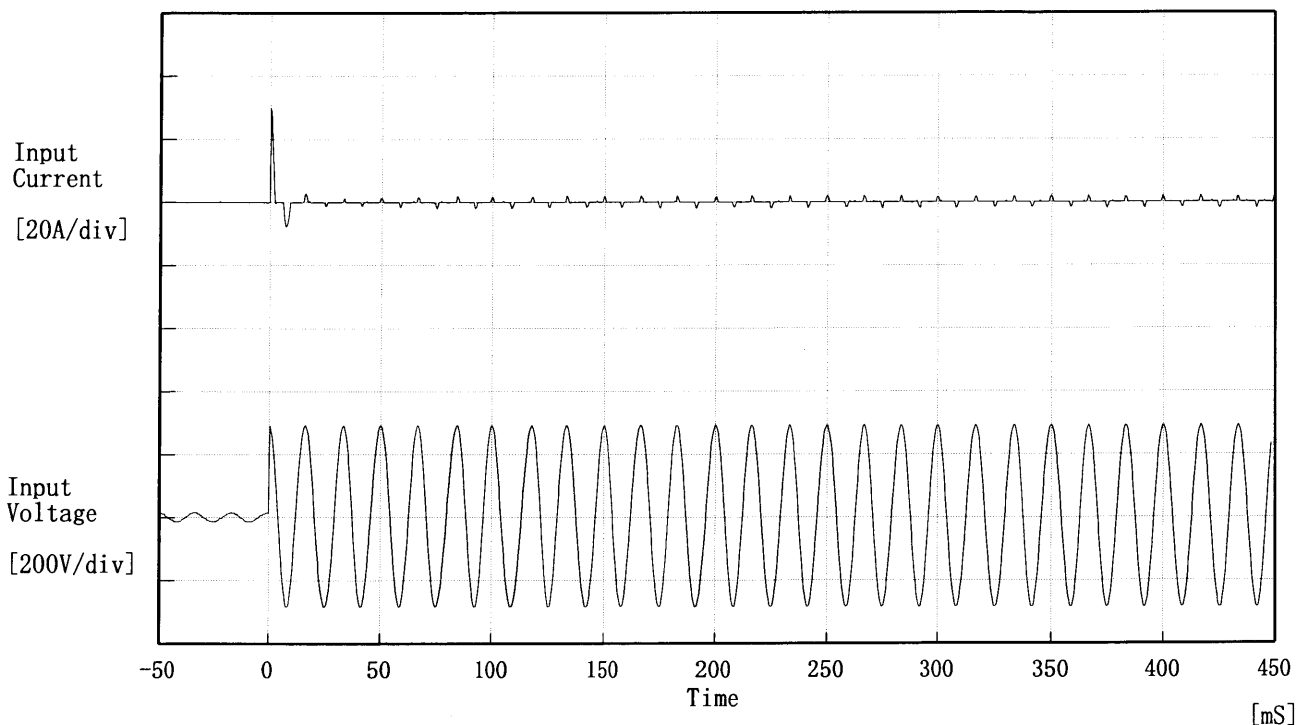
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Object		+24.0V2.1A																																																
1. Graph		<div> <div>△</div> Input Volt. 170 V <div>□</div> Input Volt. 200 V <div>○</div> Input Volt. 264 V </div> <p>Operating Point [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 0%</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 border="1"> <thead> <tr> <th>Ambient Temp. [°C]</th><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr> </thead> <tbody> <tr><td>-20</td><td>29.30</td><td>29.30</td><td>29.30</td></tr> <tr><td>-10</td><td>29.54</td><td>29.54</td><td>29.54</td></tr> <tr><td>0</td><td>29.72</td><td>29.72</td><td>29.72</td></tr> <tr><td>10</td><td>29.96</td><td>29.96</td><td>29.97</td></tr> <tr><td>20</td><td>30.13</td><td>30.13</td><td>30.12</td></tr> <tr><td>25</td><td>30.25</td><td>30.25</td><td>30.25</td></tr> <tr><td>30</td><td>30.34</td><td>30.37</td><td>30.37</td></tr> <tr><td>40</td><td>30.52</td><td>30.55</td><td>30.61</td></tr> <tr><td>50</td><td>30.78</td><td>30.78</td><td>30.78</td></tr> <tr><td>60</td><td>30.95</td><td>30.96</td><td>31.02</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>		Ambient Temp. [°C]	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	-20	29.30	29.30	29.30	-10	29.54	29.54	29.54	0	29.72	29.72	29.72	10	29.96	29.96	29.97	20	30.13	30.13	30.12	25	30.25	30.25	30.25	30	30.34	30.37	30.37	40	30.52	30.55	30.61	50	30.78	30.78	30.78	60	30.95	30.96	31.02	—	—	—
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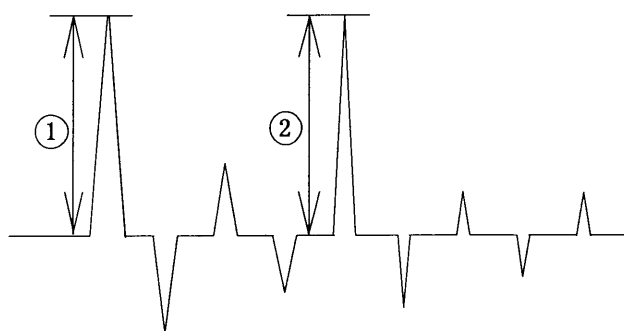
COSEL

Model	LDA50F-24	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current 突入電流	
Object	_____	



Input Voltage 200 V
Frequency 60 Hz
Load 100 %
Inrush Current

- ① 29.61 [A]
- ② 2.01 [A]



COSEL

Model	LDA50F-24	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	+24.0V 2.1A	

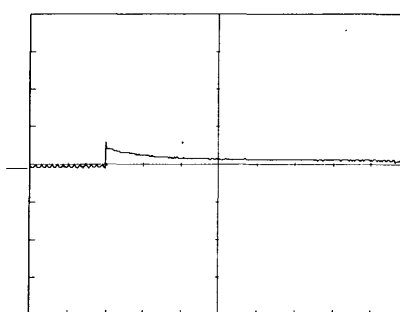
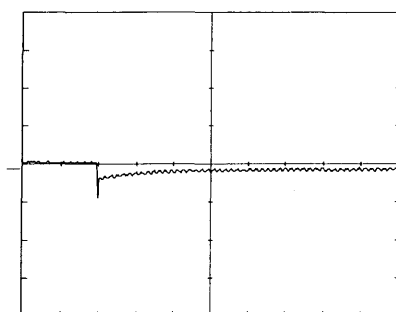
Input Volt. 200 V

Cycle 1000 mS

Load Current

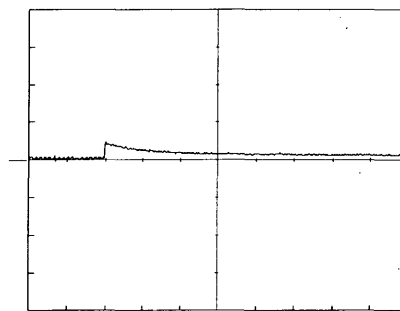
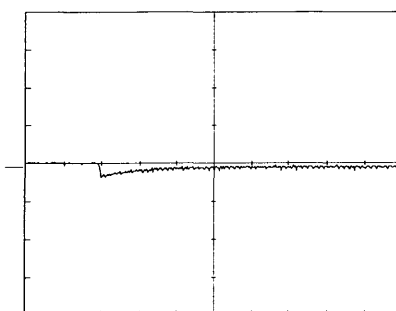
Load 0% ↔

Load 100 %



Load 0% ↔

Load 50 %



100 mV/div

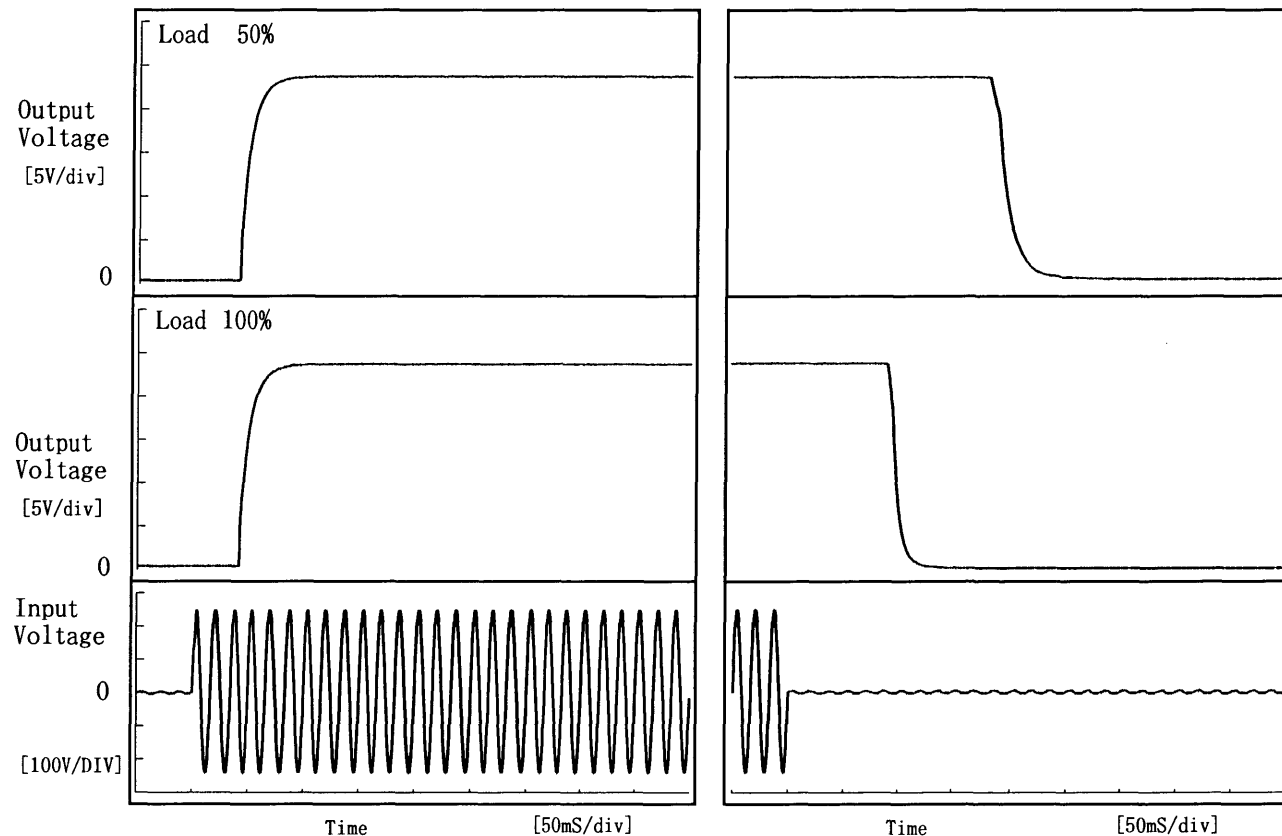
10 mS/div

COSEL

Model	LDA50F-24	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+24.0V2.1A		

1. Graph

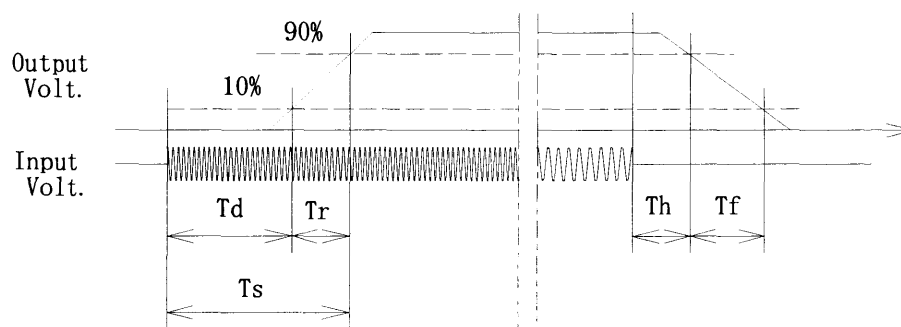
Input Volt. 170 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	41.0	23.3	64.3	186.3	29.8
100 %	41.0	23.8	64.8	93.5	15.0



COSEL

Model		LDA50F-24	Testing Circuitry	Figure A
Item		Ambient Temperature Drift 周囲温度変動		
Object		+24.0V 2.1A		
1. Graph		<div><div><div>—△—</div><div>.....□.....</div><div>.....○.....</div></div><div>Input Volt. 170V</div><div>Input Volt. 200V</div><div>Input Volt. 264V</div></div> <div><div><div>[V]</div><div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div></div><div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div></div><div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div></div><div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div></div><div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div></div><div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div></div><div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div></div><div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div></div><div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div></div><div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div></div><div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div></div><div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div></div><div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div></div><div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div></div><div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div></div><div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div></div><div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><div>24.110</div><div>0</div></div><div><div>24.350</div><div>24.310</div><div>24.270</div><div>24.230</div><div>24.190</div><div>24.150</div><d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Model LDA50F-24		Testing Circuitry Figure A																																						
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧																																							
Object	+24.0V2.1A																																							
<p>1. Graph</p> <p>[V]</p> <p>Load 50% (□)</p> <p>Load 100% (△)</p> <p>Input Voltage [V]</p> <p>Ambient Temperature [°C]</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 rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Input Voltage [V]</th></tr> <tr> <th>Load 50%</th><th>Load 100%</th></tr> </thead> <tbody> <tr><td>-20</td><td>54</td><td>60</td></tr> <tr><td>-10</td><td>53</td><td>60</td></tr> <tr><td>0</td><td>53</td><td>60</td></tr> <tr><td>10</td><td>52</td><td>60</td></tr> <tr><td>20</td><td>52</td><td>60</td></tr> <tr><td>25</td><td>52</td><td>59</td></tr> <tr><td>30</td><td>52</td><td>60</td></tr> <tr><td>40</td><td>52</td><td>60</td></tr> <tr><td>50</td><td>52</td><td>59</td></tr> <tr><td>60</td><td>52</td><td>60</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>	Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-20	54	60	-10	53	60	0	53	60	10	52	60	20	52	60	25	52	59	30	52	60	40	52	60	50	52	59	60	52	60	—	—	—
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Model LDA50F-24		Testing Circuitry Figure A																																						
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)																																							
Object	+24.0V2.1A																																							
<p>1. Graph</p> <p>□ Load 50% —△— Load 100%</p> <p>[mV]</p> <p>Ripple Voltage</p> <p>Ambient Temperature [°C]</p> <p>Input Volt. 200 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 rowspan="2">Ambient Temp. [°C]</th><th>Load 50%</th><th>Load 100%</th></tr> <tr> <th>Ripple Output Volt. [mV]</th><th>Ripple Output Volt. [mV]</th></tr> </thead> <tbody> <tr><td>-20</td><td>75</td><td>75</td></tr> <tr><td>-10</td><td>55</td><td>55</td></tr> <tr><td>0</td><td>40</td><td>45</td></tr> <tr><td>10</td><td>35</td><td>40</td></tr> <tr><td>20</td><td>30</td><td>30</td></tr> <tr><td>25</td><td>30</td><td>30</td></tr> <tr><td>30</td><td>30</td><td>30</td></tr> <tr><td>40</td><td>25</td><td>25</td></tr> <tr><td>50</td><td>25</td><td>25</td></tr> <tr><td>60</td><td>20</td><td>20</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>	Ambient Temp. [°C]	Load 50%	Load 100%	Ripple Output Volt. [mV]	Ripple Output Volt. [mV]	-20	75	75	-10	55	55	0	40	45	10	35	40	20	30	30	25	30	30	30	30	30	40	25	25	50	25	25	60	20	20	—	—	—
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COSEL

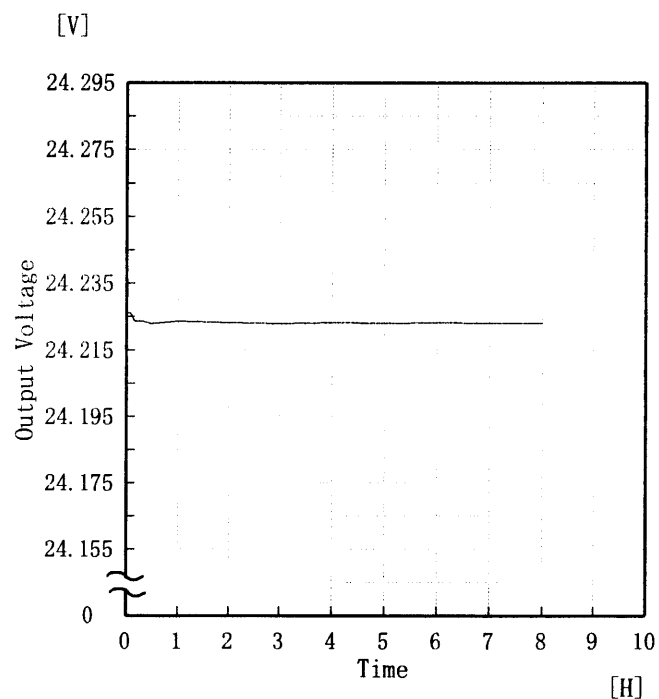
Model LDA50F-24

Item Time Lapse Drift 経時ドリフト

Object +24.0V 2.1A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Time since start [H]	Output Voltage [V]
0.0	24.228
0.5	24.223
1.0	24.223
2.0	24.223
3.0	24.223
4.0	24.223
5.0	24.223
6.0	24.223
7.0	24.223
8.0	24.223

COSEL

Model		LDA50F-24	Testing Circuitry Figure A
Item		Output Voltage Accuracy 定電圧精度	
Object		+24.0V2.1A	

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 : 170~264 V

Load Current : 0~2.1 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 170~264 V

負荷電流 0~2.1 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	50	264	0.0	24.233	±35	±0.2
Minimum Voltage	-10	170	2.1	24.164		

COSEL

Model	LDA50F-24	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	---	---	---
(B) IEC60950	---	---	---

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 230 [V]	Input Volt. 264 [V]
(B) IEC60950	0.33	0.46	0.48

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	LDA50F-24	Temperature 25°C Testing Circuitry Figure C	
Item	Line Noise Tolerance 入力雑音耐量		
Object	+24.0V2.1A		

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

COSEL

Model	LDA50F-24		
Item	Conducted Emission 雑音端子電圧	Temperature	25℃
Object		Testing Circuitry	Figure D

1. Graph

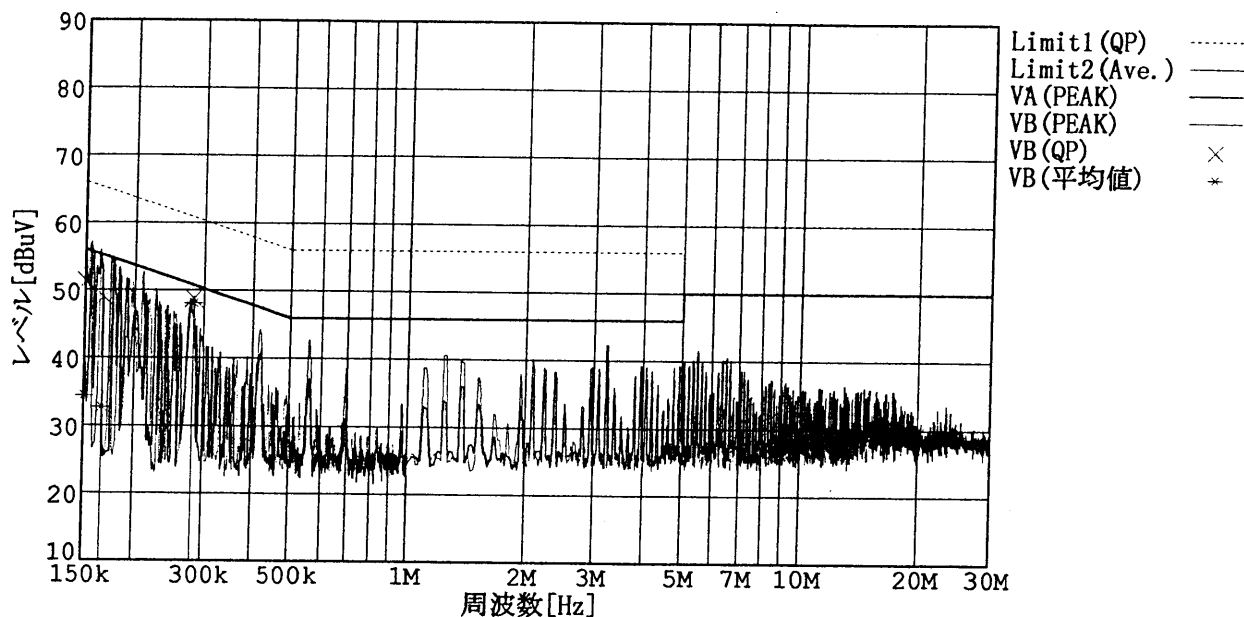
Remarks

Input Volt. 230 V

Load 100 %

規格1: [EN 55022] Class B(QP)

規格2: [EN 55022] Class B(平均値)



COSEL

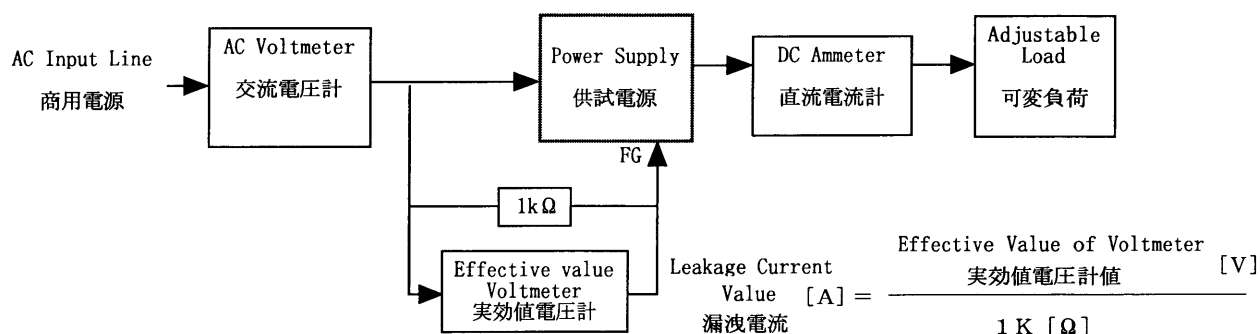
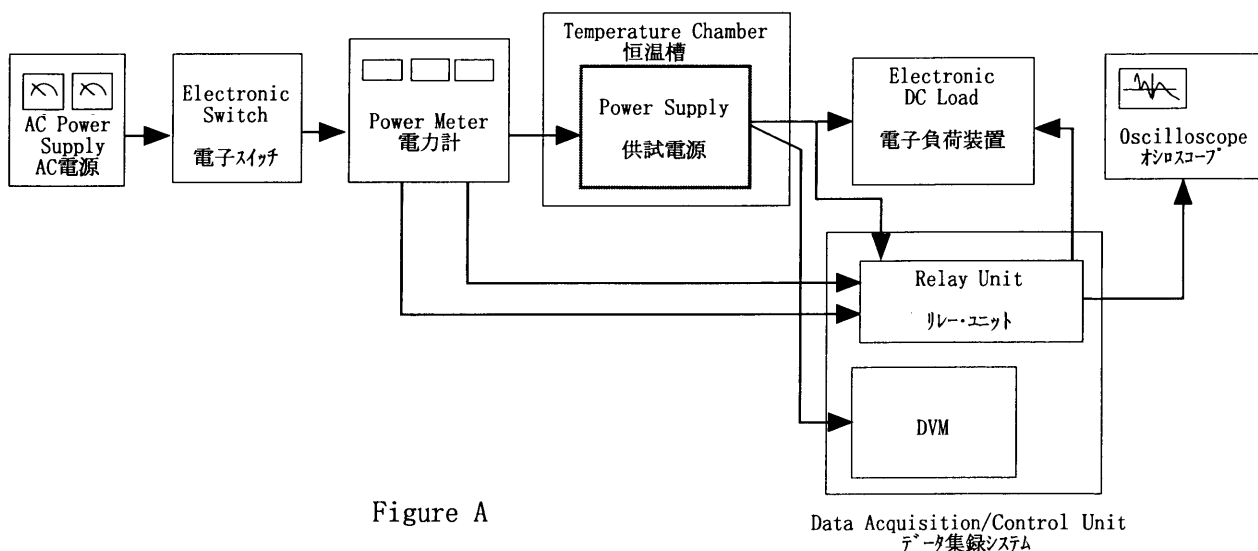


Figure B (DENTORI)

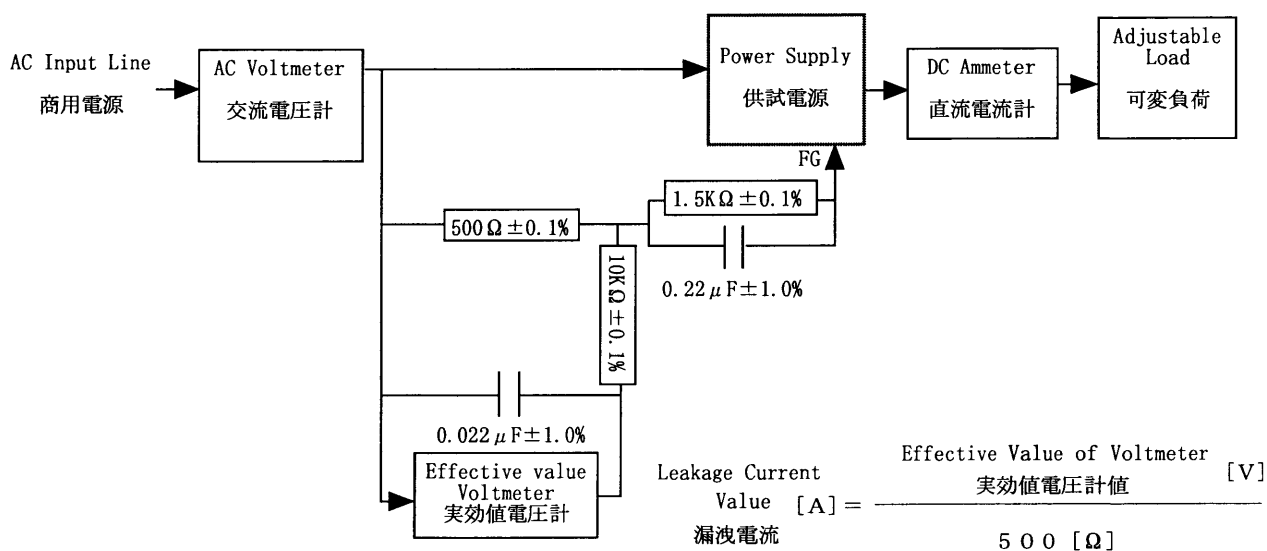


Figure B (IEC 60950)

COSEL

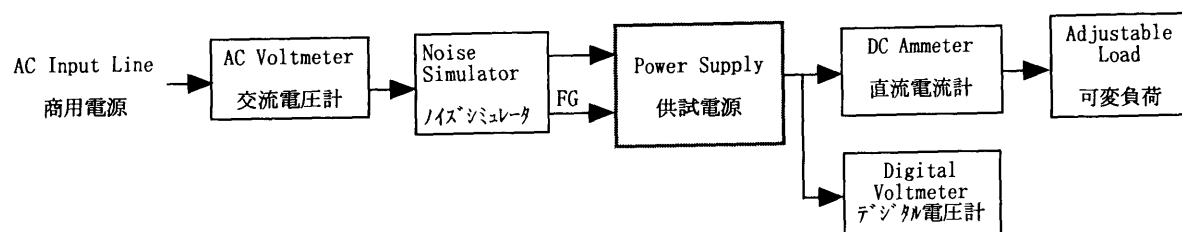


Figure C

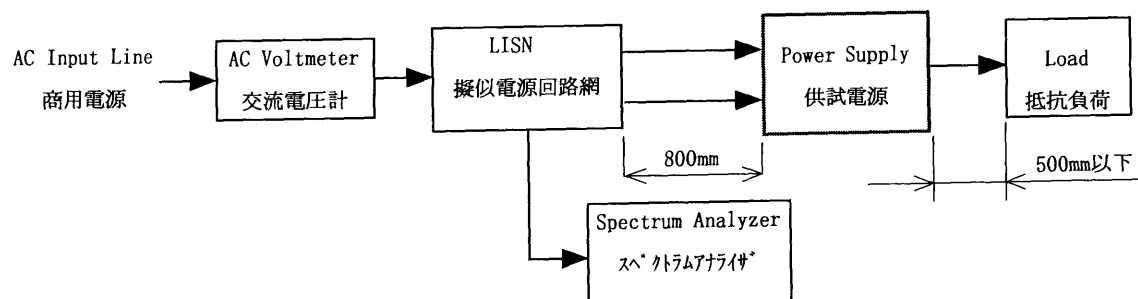


Figure D

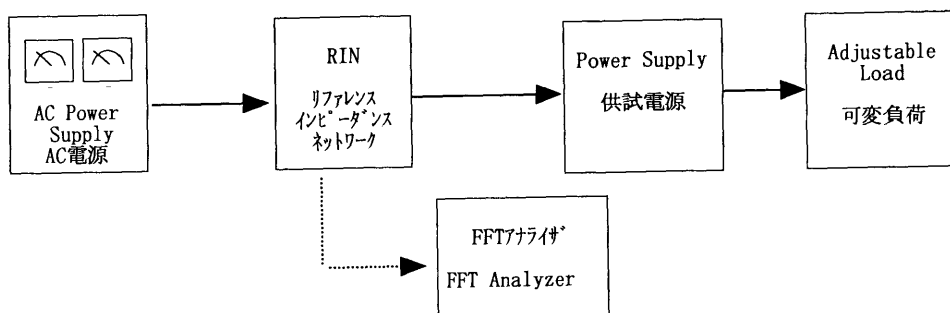


Figure E