



# TEST DATA OF LEB100F-0512

(200V INPUT)

Regulated DC Power Supply

Mar. 16, 2000

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Design Manager

Prepared by : T. Kaida  
Design Engineer

**コーセル株式会社**  
**COSEL CO., LTD.**

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Model	LEB100F-0512																																		
Item	Line Regulation 静の入力変動		Temperature 25℃ Testing Circuitry Figure A																																
Object	V1: +5.0V5A																																		
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<div><div><div>□</div><div>Load 50%</div></div><div><div>△</div><div>Load 100%</div></div></div> <table><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>5.107</td><td>5.097</td></tr><tr><td>160</td><td>5.107</td><td>5.097</td></tr><tr><td>170</td><td>5.107</td><td>5.097</td></tr><tr><td>180</td><td>5.107</td><td>5.097</td></tr><tr><td>200</td><td>5.107</td><td>5.097</td></tr><tr><td>220</td><td>5.107</td><td>5.097</td></tr><tr><td>240</td><td>5.107</td><td>5.097</td></tr><tr><td>264</td><td>5.107</td><td>5.097</td></tr><tr><td>280</td><td>5.107</td><td>5.097</td></tr></tbody></table>				Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	150	5.107	5.097	160	5.107	5.097	170	5.107	5.097	180	5.107	5.097	200	5.107	5.097	220	5.107	5.097	240	5.107	5.097	264	5.107	5.097	280	5.107	5.097
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# COSEL

Model		LEB100F-0512		Temperature25℃ Testing CircuitryFigure A																																
Item		Power Factor (by Input Voltage) 力率（入力電圧特性）																																		
Object																																				
1. Graph																																				
<div><div><div><div><div></div><div>□</div></div><div>Load 50%</div></div><div><div><div></div><div>△</div></div><div>Load 100%</div></div></div><div><div><div><div><div>1.00</div><div>0.90</div><div>0.80</div><div>0.70</div><div>0.60</div><div>0.50</div><div>0.40</div></div><div><div>140</div><div>160</div><div>180</div><div>200</div><div>220</div><div>240</div><div>260</div><div>280</div><div>300</div></div><div>Power Factor</div><div>Input Voltage</div><div>[V]</div></div></div></div></div>																																				
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<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Power Factor</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>150</td><td>0.93</td><td>0.97</td></tr><tr><td>160</td><td>0.92</td><td>0.96</td></tr><tr><td>170</td><td>0.91</td><td>0.96</td></tr><tr><td>180</td><td>0.91</td><td>0.95</td></tr><tr><td>200</td><td>0.88</td><td>0.94</td></tr><tr><td>220</td><td>0.86</td><td>0.92</td></tr><tr><td>240</td><td>0.84</td><td>0.91</td></tr><tr><td>264</td><td>0.82</td><td>0.89</td></tr><tr><td>280</td><td>0.71</td><td>0.80</td></tr></table>					Input Voltage [V]	Power Factor		Load 50%	Load 100%	150	0.93	0.97	160	0.92	0.96	170	0.91	0.96	180	0.91	0.95	200	0.88	0.94	220	0.86	0.92	240	0.84	0.91	264	0.82	0.89	280	0.71	0.80
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# COSEL

Model		LEB100F-0512		Temperature		25℃																																																					
Item		Power Factor (by Load Power) 力率（負荷特性）		Testing Circuitry		Figure A																																																					
Output		_____																																																									
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<div><div>△</div>Input Volt. 170V</div> <div><div>□</div>Input Volt. 200V</div> <div><div>○</div>Input Volt. 264V</div> <table><thead><tr><th>Load Power [W]</th><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr></thead><tbody><tr><td>0.0</td><td>0.62</td><td>0.55</td><td>0.43</td></tr><tr><td>17.0</td><td>0.85</td><td>0.81</td><td>0.71</td></tr><tr><td>34.0</td><td>0.90</td><td>0.87</td><td>0.80</td></tr><tr><td>51.0</td><td>0.93</td><td>0.90</td><td>0.84</td></tr><tr><td>68.0</td><td>0.94</td><td>0.92</td><td>0.87</td></tr><tr><td>85.0</td><td>0.96</td><td>0.94</td><td>0.89</td></tr><tr><td>93.5</td><td>0.96</td><td>0.94</td><td>0.90</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></tbody></table>				Load Power [W]	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0.0	0.62	0.55	0.43	17.0	0.85	0.81	0.71	34.0	0.90	0.87	0.80	51.0	0.93	0.90	0.84	68.0	0.94	0.92	0.87	85.0	0.96	0.94	0.89	93.5	0.96	0.94	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
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# COSEL

Model		LEB100F-0512		Temperature		25℃																																	
Item		Hold-Up Time 出力保持時間		Testing Circuitry		Figure A																																	
Object		V1: +5.0V5A																																					
1. Graph				2. Values																																			
<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>Input Voltage</div><div>[V]</div></div></div> <div><div><div>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</div><div>Note: Slanted line shows the range of the rated input voltage.</div><div>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。</div><div>(注) 斜線は定格入力電圧範囲を示す。</div></div></div>				<table><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><tr><td>150</td><td>126</td><td>56</td></tr><tr><td>160</td><td>127</td><td>57</td></tr><tr><td>170</td><td>128</td><td>58</td></tr><tr><td>180</td><td>129</td><td>58</td></tr><tr><td>200</td><td>129</td><td>59</td></tr><tr><td>220</td><td>130</td><td>59</td></tr><tr><td>240</td><td>131</td><td>60</td></tr><tr><td>264</td><td>131</td><td>60</td></tr><tr><td>280</td><td>132</td><td>60</td></tr></table>				Input Voltage [V]	Hold-Up Time [mS]		Load 50%	Load 100%	150	126	56	160	127	57	170	128	58	180	129	58	200	129	59	220	130	59	240	131	60	264	131	60	280	132	60
Input Voltage [V]	Hold-Up Time [mS]																																						
	Load 50%	Load 100%																																					
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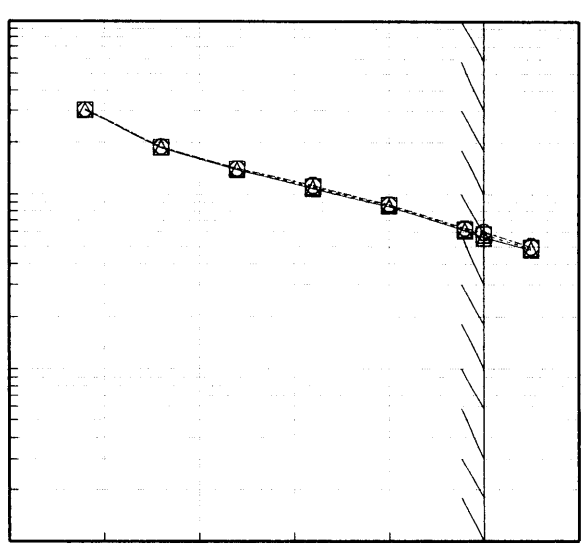
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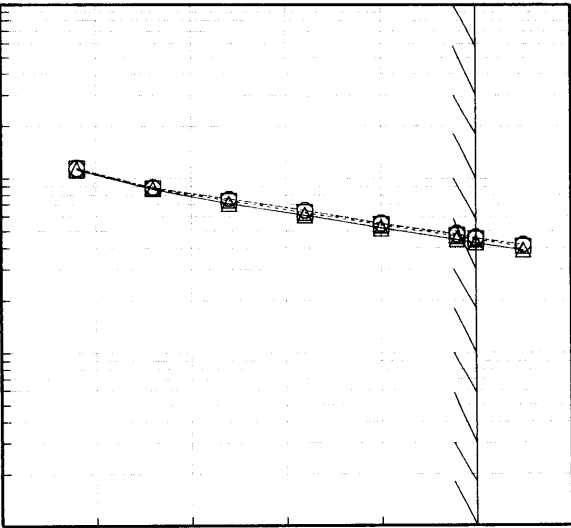
# COSEL

Model	LEB100F-0512																																		
Item	Hold-Up Time 出力保持時間	Temperature	25℃																																
		Testing Circuitry	Figure A																																
Object	V2: +12.0V5A																																		
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<div><div><div>□</div><div>Load 50%</div></div><div><div>△</div><div>Load 100%</div></div></div> <div><div>[mS]</div><div>1000</div><div>100</div><div>10</div><div>1</div><div>Hold-Up Time</div><div>140 160 180 200 220 240 260 280 300</div><div>Input Voltage</div><div>[V]</div></div> <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、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。</p> <p>(注)斜線は定格入力電圧範囲を示す。</p>		<table><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><tr><td>150</td><td>65</td><td>43</td></tr><tr><td>160</td><td>66</td><td>44</td></tr><tr><td>170</td><td>66</td><td>44</td></tr><tr><td>180</td><td>67</td><td>45</td></tr><tr><td>200</td><td>68</td><td>46</td></tr><tr><td>220</td><td>68</td><td>46</td></tr><tr><td>240</td><td>69</td><td>47</td></tr><tr><td>264</td><td>70</td><td>47</td></tr><tr><td>280</td><td>70</td><td>47</td></tr></table>		Input Voltage [V]	Hold-Up Time [mS]		Load 50%	Load 100%	150	65	43	160	66	44	170	66	44	180	67	45	200	68	46	220	68	46	240	69	47	264	70	47	280	70	47
Input Voltage [V]	Hold-Up Time [mS]																																		
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# COSEL

Model		LEB100F-0512		Temperature		25℃																																																				
Item		Instantaneous Interruption Compensation 瞬時停電保障		Testing Circuitry		Figure A																																																				
Object		V1: +5.0V5A																																																								
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Load Current [A]	Time [mS]																																																									
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]																																																							
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Load Current [A]	Time [mS]																																																									
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Load Current [A]	Output Voltage [V]																																																					
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Object		V2: +12.0V5A		2. Values																																																		
1. Graph		<div><div>—△—</div>Input Volt. 170 V</div> <div><div>---□---</div>Input Volt. 200 V</div> <div><div>---○---</div>Input Volt. 264 V</div>																																																				
<div><div>Output Voltage [V]</div><div><div>Load Current [A]</div></div></div>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>0.0</td><td>12.188</td><td>12.188</td><td>12.188</td></tr><tr><td>0.8</td><td>12.186</td><td>12.186</td><td>12.186</td></tr><tr><td>1.6</td><td>12.184</td><td>12.184</td><td>12.184</td></tr><tr><td>2.4</td><td>12.183</td><td>12.183</td><td>12.183</td></tr><tr><td>3.2</td><td>12.181</td><td>12.181</td><td>12.181</td></tr><tr><td>4.0</td><td>12.180</td><td>12.180</td><td>12.180</td></tr><tr><td>4.8</td><td>12.178</td><td>12.178</td><td>12.178</td></tr><tr><td>5.0</td><td>12.178</td><td>12.178</td><td>12.178</td></tr><tr><td>5.5</td><td>12.177</td><td>12.177</td><td>12.177</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>				Load Current [A]	Output Voltage [V]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0.0	12.188	12.188	12.188	0.8	12.186	12.186	12.186	1.6	12.184	12.184	12.184	2.4	12.183	12.183	12.183	3.2	12.181	12.181	12.181	4.0	12.180	12.180	12.180	4.8	12.178	12.178	12.178	5.0	12.178	12.178	12.178	5.5	12.177	12.177	12.177	—	—	—	—
Load Current [A]	Output Voltage [V]																																																					
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]																																																			
0.0	12.188	12.188	12.188																																																			
0.8	12.186	12.186	12.186																																																			
1.6	12.184	12.184	12.184																																																			
2.4	12.183	12.183	12.183																																																			
3.2	12.181	12.181	12.181																																																			
4.0	12.180	12.180	12.180																																																			
4.8	12.178	12.178	12.178																																																			
5.0	12.178	12.178	12.178																																																			
5.5	12.177	12.177	12.177																																																			
—	—	—	—																																																			
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。																																																						

# COSEL

Model		LEB100F-0512	
Item		Ripple Voltage (by Load Current) リップル電圧 (負荷特性)	
Object		V1: +5.0V5A	

1. Graph

—△— Input Volt. 170V

---○--- Input Volt. 264V

[mV]

100

90

80

70

60

50

40

30

20

10

0

Ripple Voltage

0

2

4

6

Load Current

[A]

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

Ripple [mVp-p]

# COSEL

Model		LEB100F-0512	
Item		Ripple Voltage (by Load Current) リップル電圧 (負荷特性)	
Object		V2: +12.0V5A	

1. Graph

—△— Input Volt. 170V

---○--- Input Volt. 264V

[mV]

200

180

160

140

120

100

80

60

40

20

0

0

2

4

6

Load Current

[A]

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

→ T2

← T1

Ripple [mVp-p]

Fig. Complex Ripple Wave Form

図 リップル波形詳細図

Load Current [A]	Ripple Output Voltage [mV]	
	Input Volt. 170 [V]	Input Volt. 264 [V]
0.0	15	15
1.0	20	20
2.0	25	25
3.0	25	25
4.0	25	25
5.0	30	30
5.5	35	35
—	—	—
—	—	—
—	—	—
—	—	—

2. Values

# COSEL

Model		LEB100F-0512		Temperature		25℃																																																															
Item		Ripple-Noise   リップルノイズ		Testing Circuitry		Figure A																																																															
Object		V1: +5.0V5A																																																																			
1. Graph				2. Values																																																																	
<div><div>—△—   Input Volt. 170V</div><div>- - -○- - -   Input Volt. 264V</div><div><table border="1"><caption>Ripple-Noise Data (from graph and table)</caption><thead><tr><th>Load Current [A]</th><th>Input Volt. 170 [V] [mV]</th><th>Input Volt. 264 [V] [mV]</th></tr></thead><tbody><tr><td>0.0</td><td>40</td><td>40</td></tr><tr><td>1.0</td><td>50</td><td>50</td></tr><tr><td>2.0</td><td>50</td><td>50</td></tr><tr><td>3.0</td><td>55</td><td>55</td></tr><tr><td>4.0</td><td>60</td><td>60</td></tr><tr><td>5.0</td><td>65</td><td>65</td></tr><tr><td>5.5</td><td>65</td><td>65</td></tr></tbody></table></div></div>				Load Current [A]	Input Volt. 170 [V] [mV]	Input Volt. 264 [V] [mV]	0.0	40	40	1.0	50	50	2.0	50	50	3.0	55	55	4.0	60	60	5.0	65	65	5.5	65	65	<table border="1"><thead><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple-Noise [mV]</th></tr><tr><th>Input Volt. 170 [V]</th><th>Input Volt. 264 [V]</th></tr></thead><tbody><tr><td>0.0</td><td>40</td><td>40</td></tr><tr><td>1.0</td><td>50</td><td>50</td></tr><tr><td>2.0</td><td>50</td><td>50</td></tr><tr><td>3.0</td><td>55</td><td>55</td></tr><tr><td>4.0</td><td>60</td><td>60</td></tr><tr><td>5.0</td><td>65</td><td>65</td></tr><tr><td>5.5</td><td>65</td><td>65</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><tr><td>—</td><td>—</td><td>—</td></tr></tbody></table>				Load Current [A]	Ripple-Noise [mV]		Input Volt. 170 [V]	Input Volt. 264 [V]	0.0	40	40	1.0	50	50	2.0	50	50	3.0	55	55	4.0	60	60	5.0	65	65	5.5	65	65	—	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Input Volt. 170 [V] [mV]	Input Volt. 264 [V] [mV]																																																																			
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<div><div>T1: Due to AC Input Line 入力商用周期</div><div>T2: Due to Switching スイッチング周期</div><div><p>T2    Ripple-Noise [mVp-p]</p><p>T1</p></div></div>																																																																					
<p>Fig. Complex Ripple Wave Form</p> <p>図   リップル波形詳細図</p>																																																																					

# COSEL

Model		LEB100F-0512		Temperature		25℃																																							
Item		Ripple-Noise リップルノイズ		Testing Circuitry		Figure A																																							
Object		V2: +12.0V5A																																											
1. Graph				2. Values																																									
<div><div>—△—</div>Input Volt. 170V</div> <div><div>-○-</div>Input Volt. 264V</div> <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>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple-Noise [mV]</th></tr><tr><th>Input Volt. 170 [V]</th><th>Input Volt. 264 [V]</th></tr><tr><td>0.0</td><td>35</td><td>35</td></tr><tr><td>1.0</td><td>55</td><td>55</td></tr><tr><td>2.0</td><td>55</td><td>55</td></tr><tr><td>3.0</td><td>65</td><td>65</td></tr><tr><td>4.0</td><td>70</td><td>70</td></tr><tr><td>5.0</td><td>70</td><td>70</td></tr><tr><td>5.5</td><td>75</td><td>75</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><tr><td>—</td><td>—</td><td>—</td></tr></table>				Load Current [A]	Ripple-Noise [mV]		Input Volt. 170 [V]	Input Volt. 264 [V]	0.0	35	35	1.0	55	55	2.0	55	55	3.0	65	65	4.0	70	70	5.0	70	70	5.5	75	75	—	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Ripple-Noise [mV]																																												
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# COSEL

Model		LEB100F-0512		Temperature		25°C	
Item		Overcurrent Protection 過電流保護		Testing Circuitry		Figure A	
Object		V1: +5.0V5A					
1. Graph				2. Values			
[V]		Input Volt. 170 V					
		Input Volt. 200 V					
		Input Volt. 264 V					
8.0							
6.0							
4.0							
2.0							
0.0							
0		8 [A]					
Output Voltage		Load Current					
Note: Slanted line shows the range of the rated load current.							

Output Voltage [V]	Load Current [A]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
5.00	7.14	7.18	7.21
4.75	7.00	7.03	7.05
4.50	6.83	6.86	6.88
4.00	6.50	6.53	6.55
3.50	6.17	6.19	6.21
3.00	5.80	5.84	5.83
2.50	5.41	5.42	5.44
2.00	4.99	5.00	5.01
1.50	4.58	4.59	4.60
1.00	4.03	4.04	4.05
0.50	3.56	3.57	3.58
0.00	4.60	4.63	4.64

Object		V2: +12.0V5A					
1. Graph		Input Volt. 170 V		2. Values			
[V]		Input Volt. 200 V					
		Input Volt. 264 V					
20.0							
15.0							
10.0							
5.0							
0.0							
0		15 [A]					
Output Voltage		Load Current					
Note: Slanted line shows the range of the rated load current.							
Intermittent operation occurs when the output voltage is from 8.4V to 0V.							

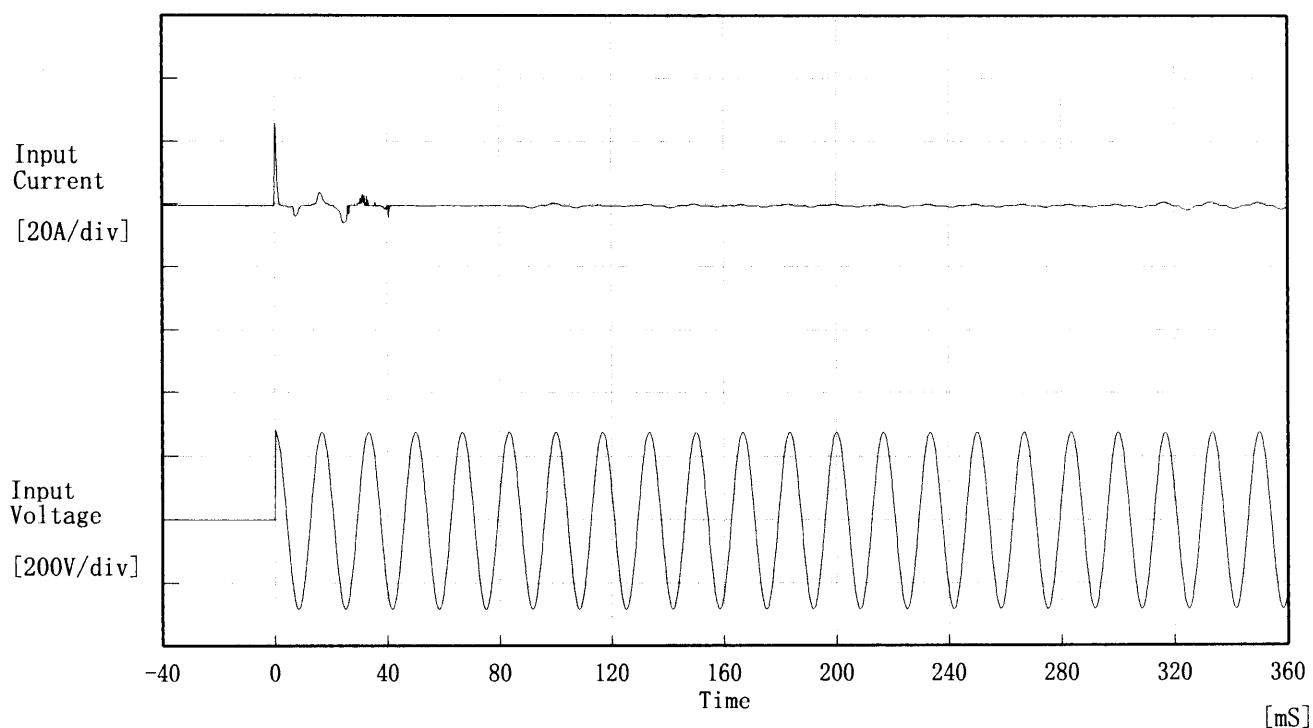
Output Voltage [V]	Load Current [A]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
12.00	12.29	12.29	12.29
11.40	12.32	12.32	12.32
10.80	12.37	12.37	12.36
9.60	12.40	12.39	12.38
8.40	12.43	12.42	12.42
7.20	—	—	—
6.00	—	—	—
4.80	—	—	—
3.60	—	—	—
2.40	—	—	—
1.20	—	—	—
0.00	—	—	—

# COSEL

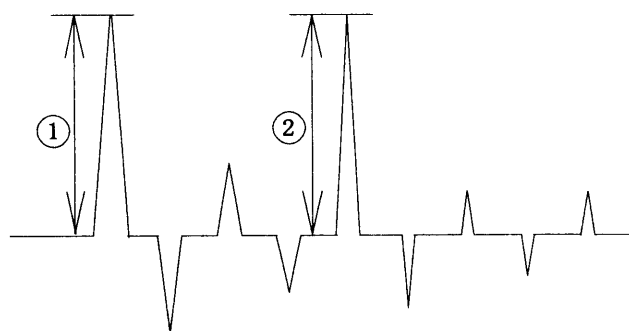
COSEL																																																						
Model	LEB100F-0512																																																					
Item	Overvoltage Protection 過電圧保護																																																					
Object	V2: +12.0V5A																																																					
1. Graph		2. Values																																																				
<div><div><div>—△—</div><div>Input Volt. 170 V</div></div><div><div>- - -□- - -</div><div>Input Volt. 200 V</div></div><div><div>- - -○- - -</div><div>Input Volt. 264 V</div></div></div> <div><div>Operating Point [V]</div><div><div>Ambient Temperature [°C]</div><div>Load 0%</div></div></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></div>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="3">Operating Point [V]</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>-20</td><td>15.2</td><td>15.2</td><td>15.2</td></tr><tr><td>-10</td><td>15.3</td><td>15.3</td><td>15.3</td></tr><tr><td>0</td><td>15.4</td><td>15.4</td><td>15.4</td></tr><tr><td>10</td><td>15.5</td><td>15.5</td><td>15.5</td></tr><tr><td>20</td><td>15.6</td><td>15.6</td><td>15.6</td></tr><tr><td>25</td><td>15.6</td><td>15.6</td><td>15.6</td></tr><tr><td>30</td><td>15.7</td><td>15.7</td><td>15.7</td></tr><tr><td>40</td><td>15.8</td><td>15.8</td><td>15.8</td></tr><tr><td>50</td><td>15.9</td><td>15.9</td><td>15.9</td></tr><tr><td>70</td><td>16.1</td><td>16.1</td><td>16.1</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>		Ambient Temperature [°C]	Operating Point [V]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	-20	15.2	15.2	15.2	-10	15.3	15.3	15.3	0	15.4	15.4	15.4	10	15.5	15.5	15.5	20	15.6	15.6	15.6	25	15.6	15.6	15.6	30	15.7	15.7	15.7	40	15.8	15.8	15.8	50	15.9	15.9	15.9	70	16.1	16.1	16.1	—	—	—	—
Ambient Temperature [°C]	Operating Point [V]																																																					
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0	15.4	15.4	15.4																																																			
10	15.5	15.5	15.5																																																			
20	15.6	15.6	15.6																																																			
25	15.6	15.6	15.6																																																			
30	15.7	15.7	15.7																																																			
40	15.8	15.8	15.8																																																			
50	15.9	15.9	15.9																																																			
70	16.1	16.1	16.1																																																			
—	—	—	—																																																			

# COSEL

Model	LEB100F-0512	Temperature	25°C
Item	Inrush Current 突入電流	Testing Circuitry	Figure A
Object	_____		



Input Voltage 200 V  
 Frequency 60 Hz  
 Load 100 %  
 Inrush Current  
 ① 25.68 [A]  
 ② 4.20 [A]



# COSEL

Model	LEB100F-0512	Temperature	25°C
Item	Dynamic Load Responce 動的負荷変動	Testing Circuitry	Figure A
Object	V 1 : +5.0V5A		

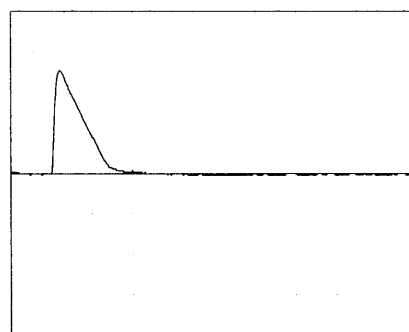
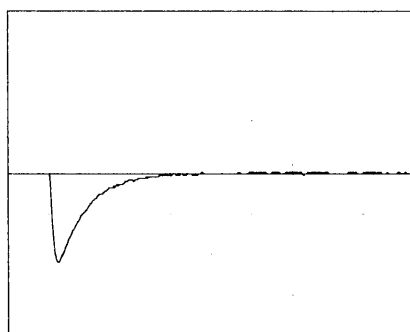
Input Volt. 200 V

Cycle 1000 mS

Load Current

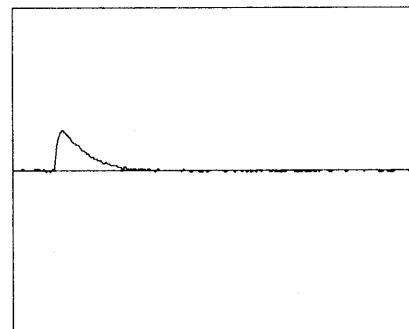
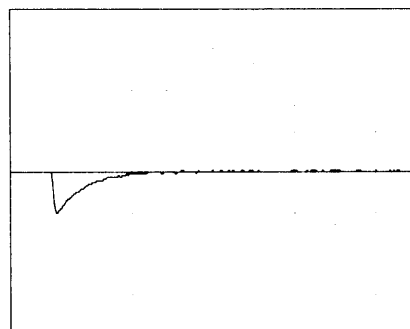
Min. Load ↔

Load 100 %



Min. Load ↔

Load 50 %



100 mV/div

10 ms/div

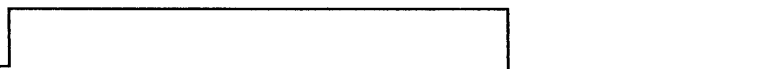


Model	LEB100F-0512		
Item	Dynamic Load Responce 動的負荷変動	Temperature	25°C
		Testing Circuitry	Figure A
Object	V 2 : +12.0V5A		

Input Volt. 200 V

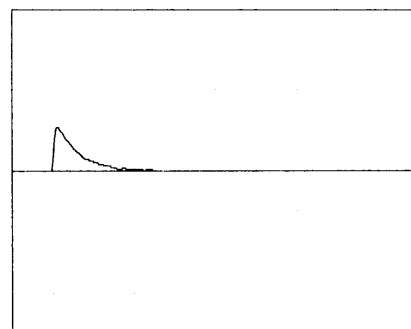
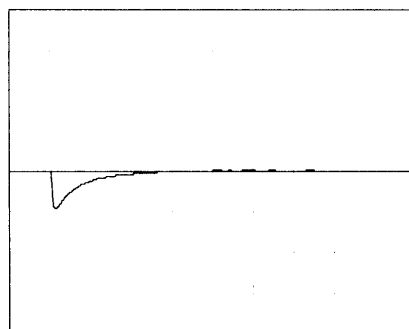
Cycle 1000 mS

Load Current



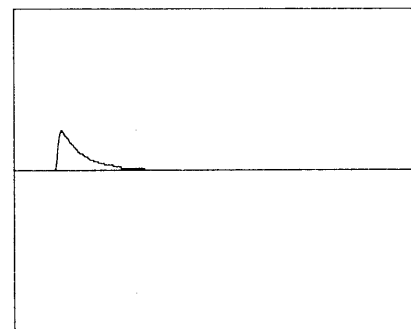
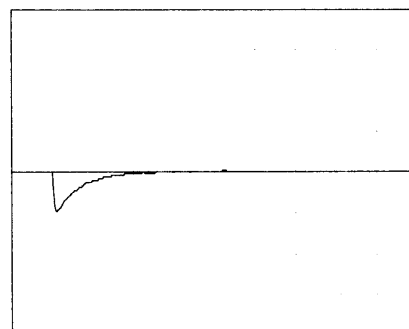
Min. Load  $\longleftrightarrow$

Load 100 %



Min. Load  $\longleftrightarrow$

Load 50 %



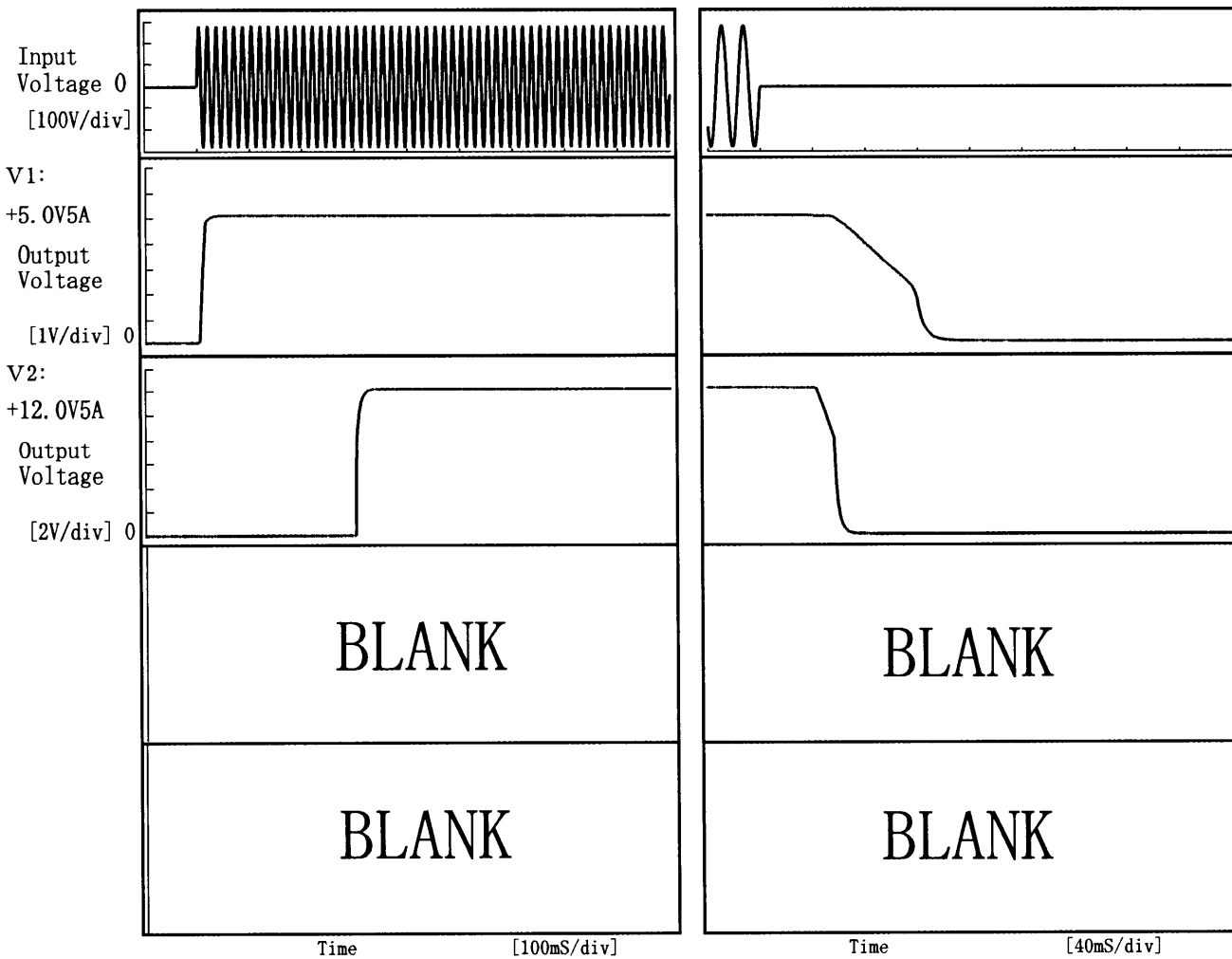
100 mV/div

10 ms/div

**COSEL**

Model	LEB100F-0512	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	_____	Load Power	100 %
		Input Volt.	200 V

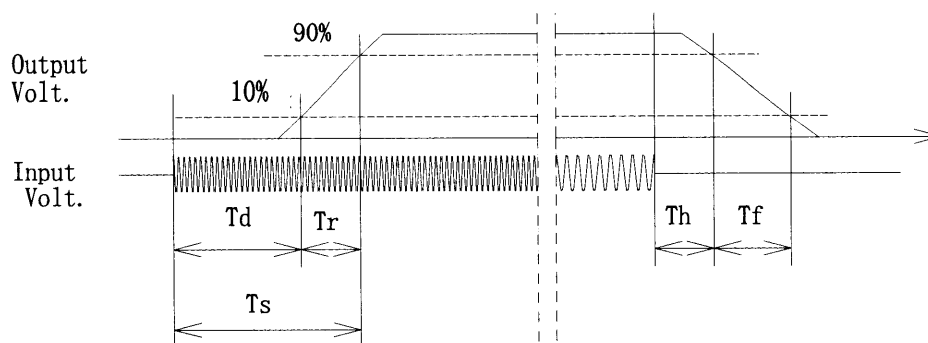
## 1. Graph



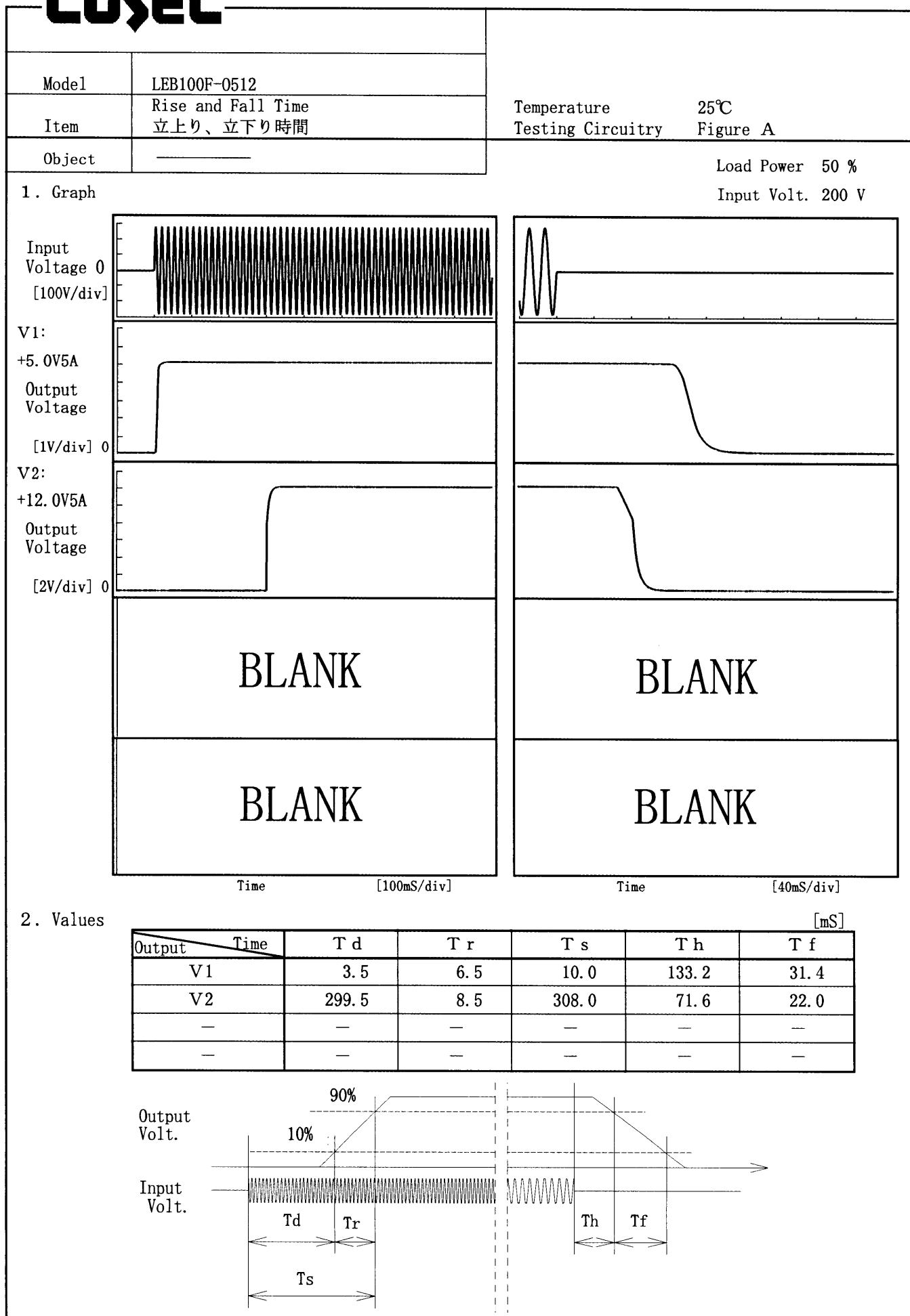
## 2. Values

[mS]

Output	Time	T d	T r	T s	T h	T f
V1		3.0	10.0	13.0	68.8	58.4
V2		300.0	9.0	309.0	46.6	15.2
—		—	—	—	—	—
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# COSEL



# COSEL

Model		LEB100F-0512																																																				
Item		Ambient Temperature Drift 周囲温度変動																																																				
Object		V1: +5.0V5A																																																				
1. Graph		2. Values																																																				
<div><div>—△— Input Volt. 170V</div><div>—□— Input Volt. 200V</div><div>—○— Input Volt. 264V</div></div> <p>Output Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</p>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>-20</td><td>5.085</td><td>5.085</td><td>5.085</td></tr><tr><td>-10</td><td>5.088</td><td>5.088</td><td>5.088</td></tr><tr><td>0</td><td>5.091</td><td>5.091</td><td>5.091</td></tr><tr><td>10</td><td>5.094</td><td>5.094</td><td>5.094</td></tr><tr><td>20</td><td>5.096</td><td>5.096</td><td>5.096</td></tr><tr><td>25</td><td>5.097</td><td>5.097</td><td>5.098</td></tr><tr><td>30</td><td>5.097</td><td>5.097</td><td>5.097</td></tr><tr><td>40</td><td>5.099</td><td>5.099</td><td>5.099</td></tr><tr><td>50</td><td>5.099</td><td>5.099</td><td>5.099</td></tr><tr><td>70</td><td>5.098</td><td>5.098</td><td>5.098</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>		Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	-20	5.085	5.085	5.085	-10	5.088	5.088	5.088	0	5.091	5.091	5.091	10	5.094	5.094	5.094	20	5.096	5.096	5.096	25	5.097	5.097	5.098	30	5.097	5.097	5.097	40	5.099	5.099	5.099	50	5.099	5.099	5.099	70	5.098	5.098	5.098	—	—	—	—
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Object		V2: +12.0V5A																																																				
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# COSEL

Model		LEB100F-0512		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		V1: +5.0V5A																																																																													
1. Graph		<div><div>□</div> Load 50%</div> <div><div>△</div> Load 100%</div> <table><thead><tr><th>Ambient Temperature [°C]</th><th>Load 50% [V]</th><th>Load 100% [V]</th></tr></thead><tbody><tr><td>-20</td><td>57</td><td>74</td></tr><tr><td>-10</td><td>57</td><td>74</td></tr><tr><td>0</td><td>57</td><td>74</td></tr><tr><td>10</td><td>57</td><td>74</td></tr><tr><td>20</td><td>57</td><td>74</td></tr><tr><td>25</td><td>57</td><td>74</td></tr><tr><td>30</td><td>57</td><td>74</td></tr><tr><td>40</td><td>57</td><td>74</td></tr><tr><td>50</td><td>57</td><td>74</td></tr><tr><td>70</td><td>57</td><td>74</td></tr><tr><td>—</td><td>—</td><td>—</td></tr></tbody></table>		Ambient Temperature [°C]	Load 50% [V]	Load 100% [V]	-20	57	74	-10	57	74	0	57	74	10	57	74	20	57	74	25	57	74	30	57	74	40	57	74	50	57	74	70	57	74	—	—	—	2. Values																																							
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Ambient Temperature [°C]	Load 50% [V]	Load 100% [V]																																																																													
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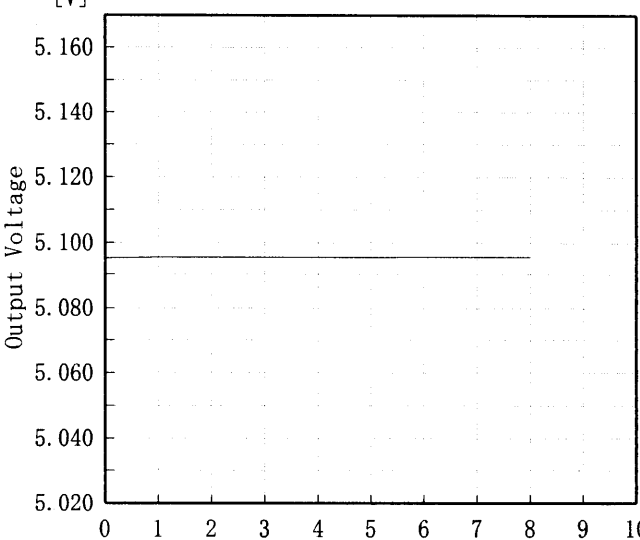
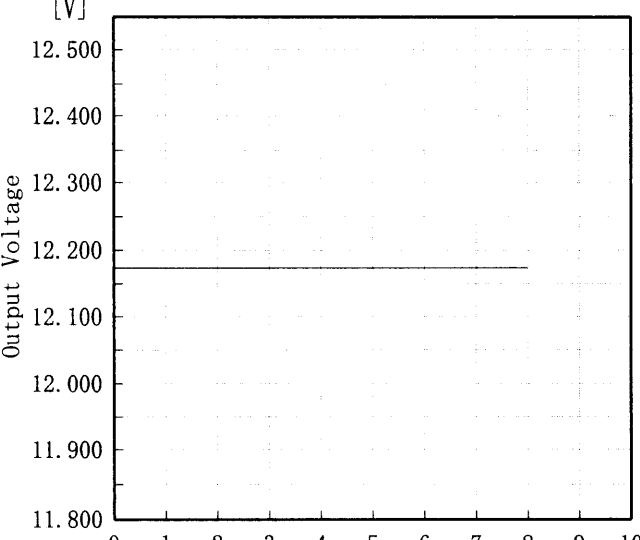
# COSEL

Model		LEB100F-0512		Testing Circuitry      Figure A																																							
Item		Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)																																									
Object		V1: +5.0V5A																																									
1. Graph		<div><div>□</div> Load 50%</div> <div><div>△</div> Load 100%</div> <p>Input Volt. 200 V</p>		2. Values																																							
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BC-3269

# COSEL

COSEL																									
Model	LEB100F-0512	Temperature 25℃ Testing Circuitry Figure A																							
Item	Time Lapse Drift 経時ドリフト																								
Object	V1: +5.0V5A																								
1. Graph		2.Values																							
<div><div>[V]</div><div></div><div>Output Voltage [V]</div><div>Time [H]</div><div>Input Volt. 200V</div><div>Load 100%</div></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>5.095</td></tr><tr><td>0.5</td><td>5.095</td></tr><tr><td>1.0</td><td>5.095</td></tr><tr><td>2.0</td><td>5.095</td></tr><tr><td>3.0</td><td>5.095</td></tr><tr><td>4.0</td><td>5.095</td></tr><tr><td>5.0</td><td>5.095</td></tr><tr><td>6.0</td><td>5.095</td></tr><tr><td>7.0</td><td>5.095</td></tr><tr><td>8.0</td><td>5.095</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	5.095	0.5	5.095	1.0	5.095	2.0	5.095	3.0	5.095	4.0	5.095	5.0	5.095	6.0	5.095	7.0	5.095	8.0	5.095
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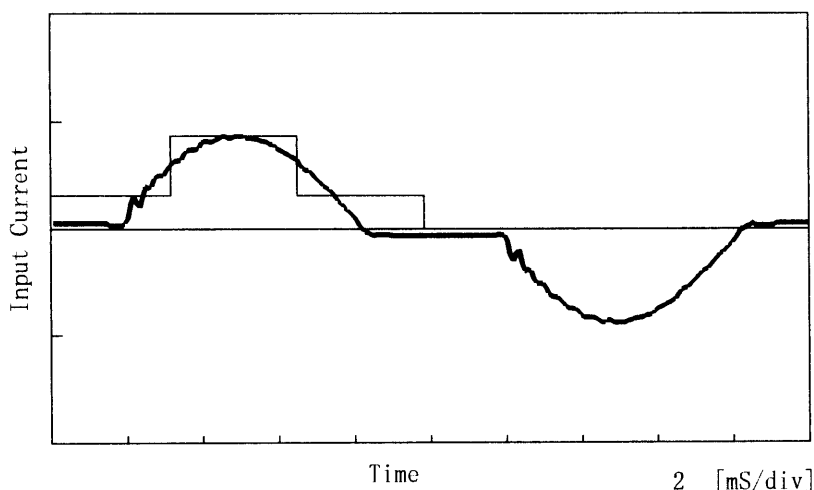
# COSEL

Model	LEB100F-0512	Temperature	25°C
Item	Harmonic Current 高調波電流	Testing Circuitry	Figure E
Object			

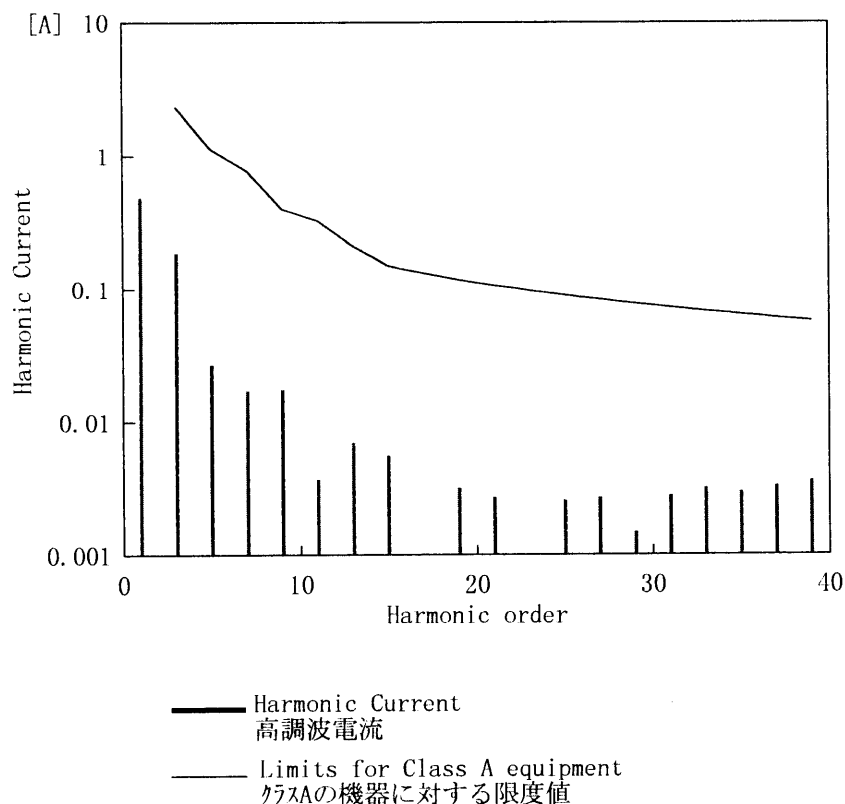
## 1. Input Current Waveform

— Input Current  
 — Envelope of the input current to classify equipment as Class D  
 クラスDの機器を決定するための入力電流包絡線

1 A/div



## 2. Harmonic Current



Conditions	Values
Input Voltage [V]	230.6
Input Current [A]	0.525
Active Power [W]	111.4
Apparent Power [VA]	121.2
Frequency [Hz]	50
Power Factor	0.919
Output Power [W]	85

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	0.48980
2	—	0.00040
3	2.29402	0.18580
4	—	0.00010
5	1.13703	0.02710
6	—	0.00000
7	0.76800	0.01750
8	—	0.00010
9	0.39896	0.01800
10	—	0.00010
11	0.32914	0.00370
12	—	0.00010
13	0.20945	0.00710
14	—	0.00010
15	0.14961	0.00570
16	—	0.00000
17	0.13201	0.00090
18	—	0.00010
19	0.11811	0.00320
20	—	0.00010
21	0.10686	0.00270
22	—	0.00010
23	0.09757	0.00040
24	—	0.00000
25	0.08977	0.00260
26	—	0.00010
27	0.08312	0.00270
28	—	0.00010
29	0.07738	0.00150
30	—	0.00010
31	0.07239	0.00280
32	—	0.00010
33	0.06800	0.00320
34	—	0.00000
35	0.06412	0.00300
36	—	0.00000
37	0.06065	0.00330
38	—	0.00000
39	0.05754	0.00360
40	—	0.00010

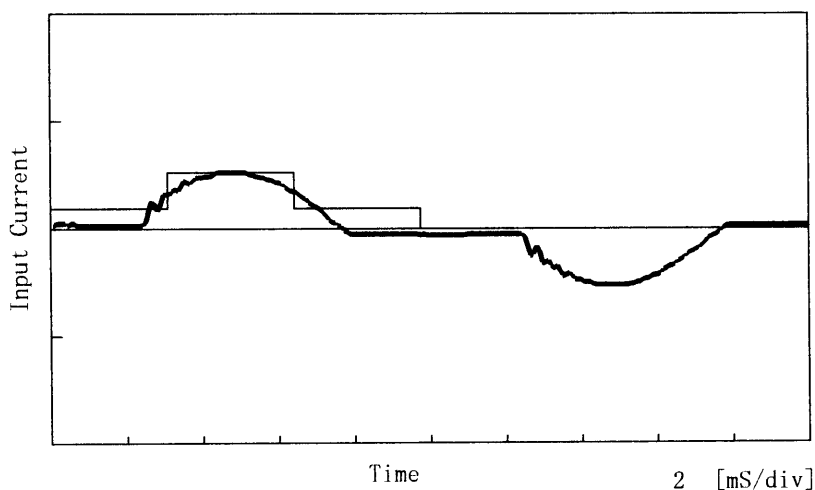
**COSEL**

Model	LEB100F-0512	Temperature	25°C
Item	Harmonic Current 高調波電流	Testing Circuitry	Figure E
Object			

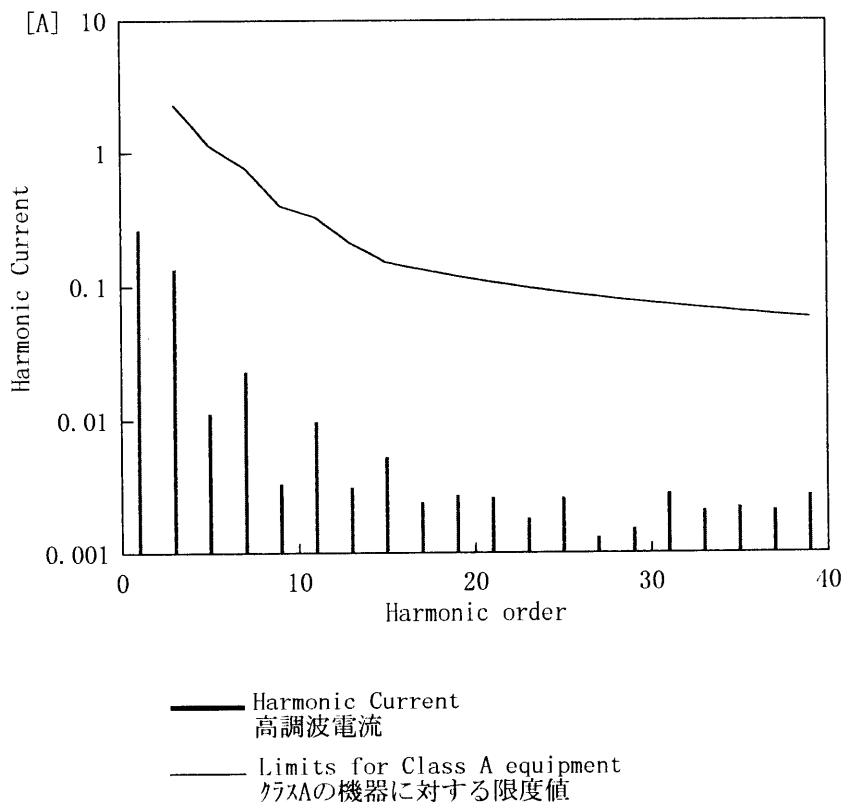
## 1. Input Current Waveform

— Input Current  
 — Envelope of the input current to classify equipment as Class D  
 クラスDの機器を決定するための入力電流包絡線

1 A/div



## 2. Harmonic Current



Conditions	Values
Input Voltage [V]	230.6
Input Current [A]	0.3
Active Power [W]	59.8
Apparent Power [VA]	69.4
Frequency [Hz]	50
Power Factor	0.862
Output Power [W]	42.5

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	0.26700
2	—	0.00040
3	2.29402	0.13410
4	—	0.00000
5	1.13703	0.01130
6	—	0.00010
7	0.76800	0.02330
8	—	0.00010
9	0.39896	0.00330
10	—	0.00010
11	0.32914	0.00980
12	—	0.00010
13	0.20945	0.00310
14	—	0.00010
15	0.14961	0.00530
16	—	0.00010
17	0.13201	0.00240
18	—	0.00000
19	0.11811	0.00270
20	—	0.00000
21	0.10686	0.00260
22	—	0.00010
23	0.09757	0.00180
24	—	0.00010
25	0.08977	0.00260
26	—	0.00010
27	0.08312	0.00130
28	—	0.00000
29	0.07738	0.00150
30	—	0.00010
31	0.07239	0.00280
32	—	0.00010
33	0.06800	0.00210
34	—	0.00000
35	0.06412	0.00220
36	—	0.00010
37	0.06065	0.00210
38	—	0.00010
39	0.05754	0.00270
40	—	0.00010

# COSEL

Model		LEB100F-0512		Temperature		25℃																																																				
Item		Oscillator Frequency 発振周波数		Testing Circuitry		Figure A																																																				
Object		V1: +5.0V5A																																																								
1. Graph				2. Values																																																						
<div><div>—△—</div><div>—□—</div><div>—○—</div></div> <div><div>Input Volt. 170 V</div><div>Input Volt. 200 V</div><div>Input Volt. 264 V</div></div> <div><div>[KHz]</div><div>1000</div><div>Oscillator Frequency</div><div>100</div><div>10</div></div> <div><div>0</div><div>2</div><div>4</div><div>6</div></div> <div>Load Current [A]</div>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Oscillator Frequency [KHz]</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>0.8</td><td>372</td><td>373</td><td>374</td></tr><tr><td>1.6</td><td>266</td><td>267</td><td>268</td></tr><tr><td>2.4</td><td>205</td><td>206</td><td>207</td></tr><tr><td>3.2</td><td>166</td><td>167</td><td>168</td></tr><tr><td>4.0</td><td>140</td><td>141</td><td>142</td></tr><tr><td>4.8</td><td>120</td><td>121</td><td>121</td></tr><tr><td>5.0</td><td>117</td><td>118</td><td>119</td></tr><tr><td>5.5</td><td>108</td><td>109</td><td>110</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]	Oscillator Frequency [KHz]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0.8	372	373	374	1.6	266	267	268	2.4	205	206	207	3.2	166	167	168	4.0	140	141	142	4.8	120	121	121	5.0	117	118	119	5.5	108	109	110	—	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Oscillator Frequency [KHz]																																																									
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0.8	372	373	374																																																							
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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。																																																										

# COSEL

		Testing Circuitry    Figure A
Model	LEB100F-0512	
Item	Condensation 結露特性	

1. Condensation test

Testing procedure is as follows.

- ① Keeping and cooling the unit in a tank at -10℃ for an hour with the input off.
- ② Taking it out of the tank and dewing itself in a room where the temperature is 25℃ and the humidity is 40%RH.
- ③ Testing electrical characteristics of the unit to confirm there be no fault.

1. 結露特性試験

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

2. Values

Object	V1: +5.0V5A
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Item	Data	Testing Conditions
Output Voltage [V]	5.097	Input Volt.: 200V, Load Current:5A
Line Regulation [mV]	1	Input Volt.: 170~264V, Load Current:5A
Load Regulation [mV]	14	Input Volt.: 200V, Load Current:0~5A

Object	V2: +12.0V5A
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Item	Data	Testing Conditions
Output Voltage [V]	12.178	Input Volt.: 200V, Load Current:5A
Line Regulation [mV]	1	Input Volt.: 170~264V, Load Current:5A
Load Regulation [mV]	10	Input Volt.: 200V, Load Current:0~5A

**COSEL**

Model	LEB100F-0512	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	0.36	0.42	0.56

## 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	LEB100F-0512	Temperature	25°C
Item	Line Noise Tolerance 入力雑音耐量	Testing Circuitry	Figure C
Object	V1: +5.0V5A		

## 1. Results

## Conditions

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

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
		POLARITY		
50	COMMON	+	OK	no fluctuation
		-	OK	no fluctuation
	NORMAL	+	OK	no fluctuation
		-	OK	no fluctuation
1000	COMMON	+	OK	no fluctuation
		-	OK	no fluctuation
	NORMAL	+	OK	no fluctuation
		-	OK	no fluctuation

Object	V2: +12.0V5A
--------	--------------

## 1. Results

## Conditions

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

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
		POLARITY		
50	COMMON	+	OK	no fluctuation
		-	OK	no fluctuation
	NORMAL	+	OK	no fluctuation
		-	OK	no fluctuation
1000	COMMON	+	OK	no fluctuation
		-	OK	no fluctuation
	NORMAL	+	OK	no fluctuation
		-	OK	no fluctuation

# COSEL

Model	LEB100F-0512	Temperature	25℃
Item	Conducted Emission 雑音端子電圧	Testing Circuitry	Figure D
Object	_____		

## 1. Graph

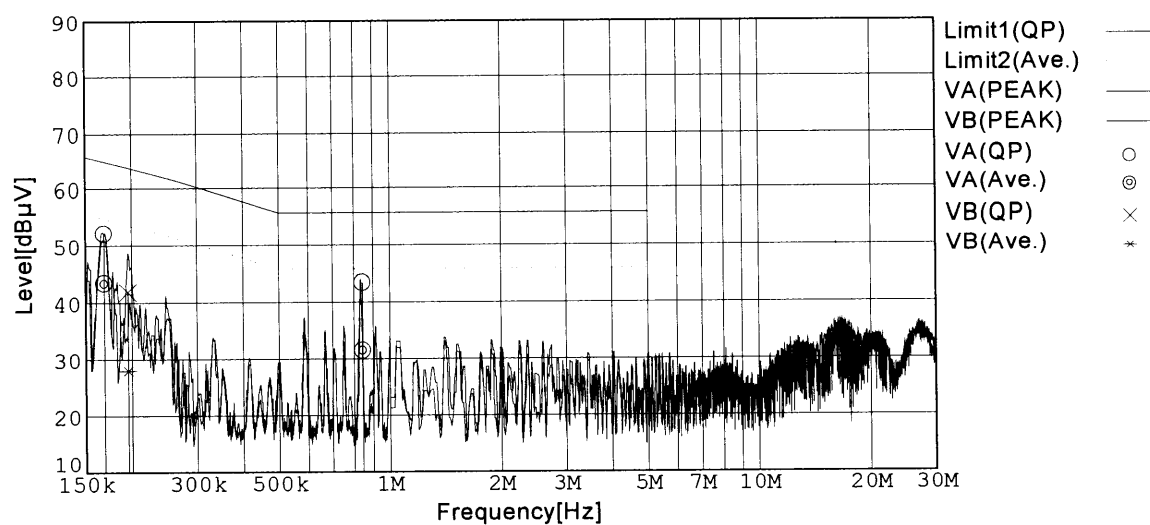
### Remarks

Input Volt.      230 V (CISPR Pub22 Class B)

Load                100 %

Limit1: [CISPR Pub22] Class B(QP)

Limit2: [CISPR Pub22] Class B(Ave.)



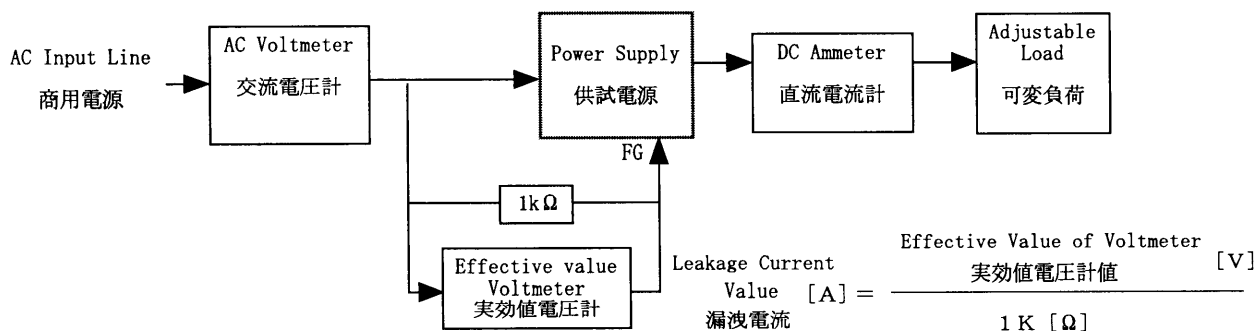
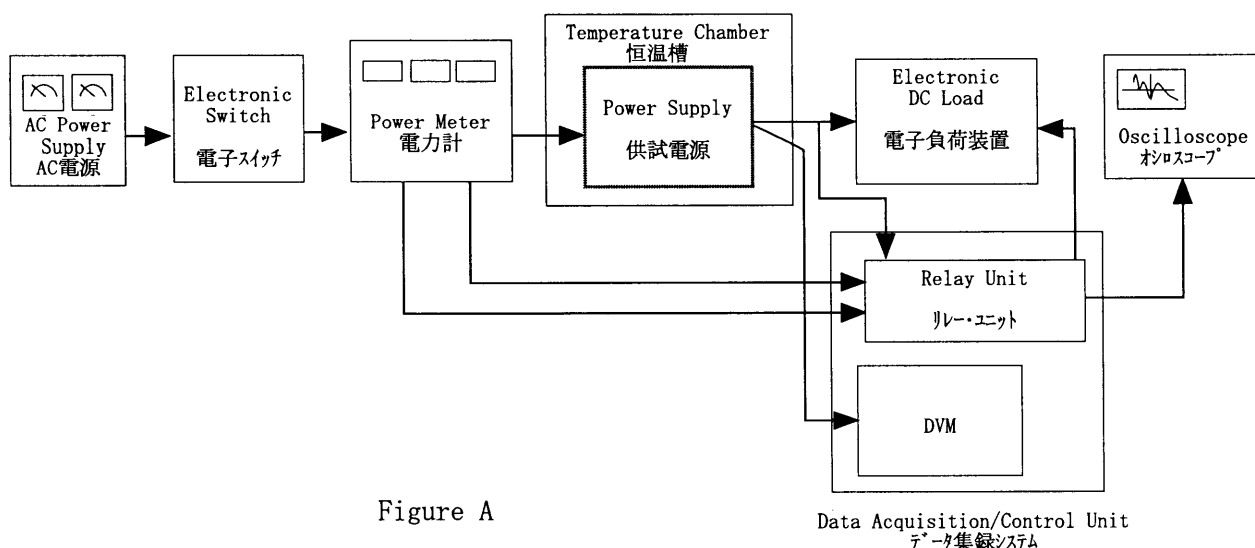


Figure B (DENTORI)

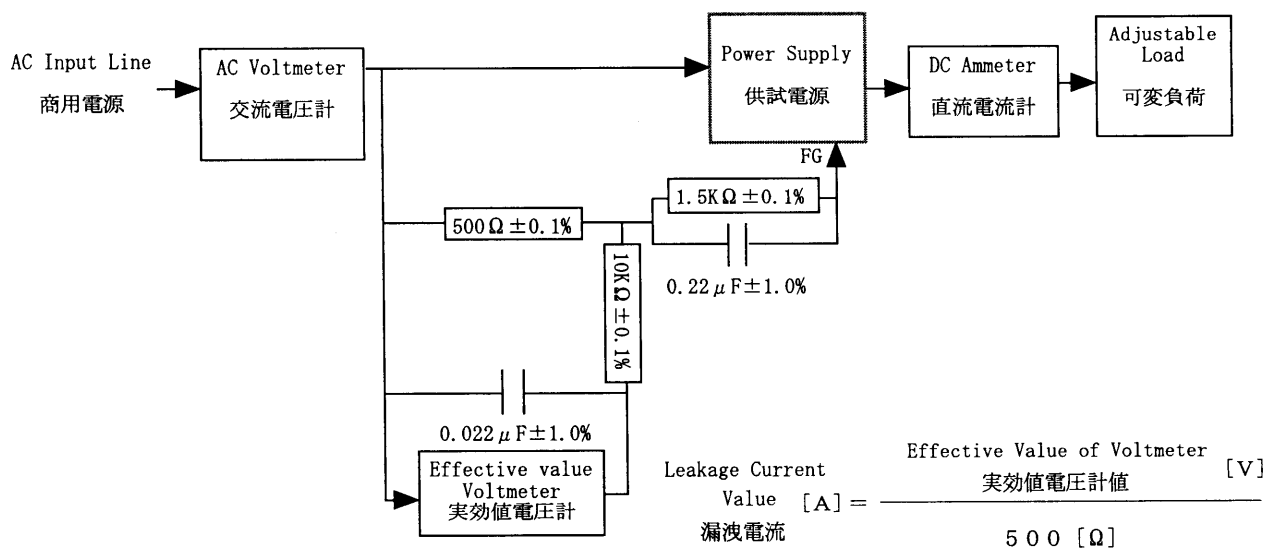


Figure B (IEC 60950)

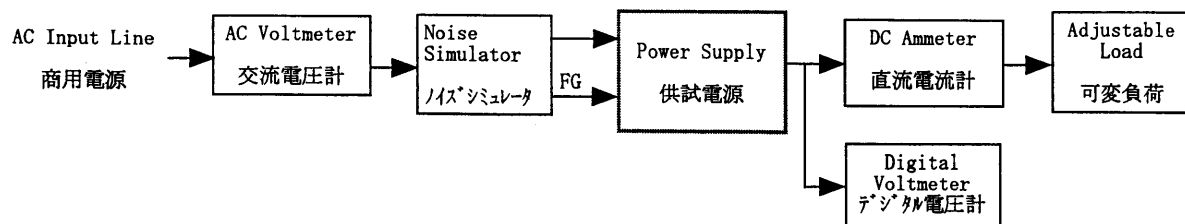


Figure C

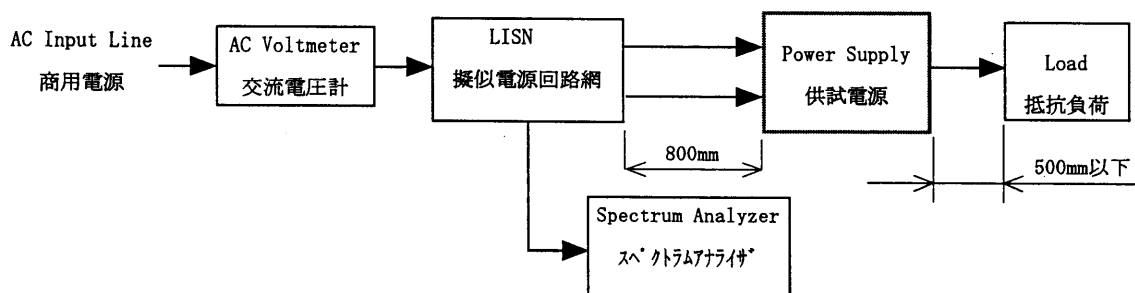


Figure D

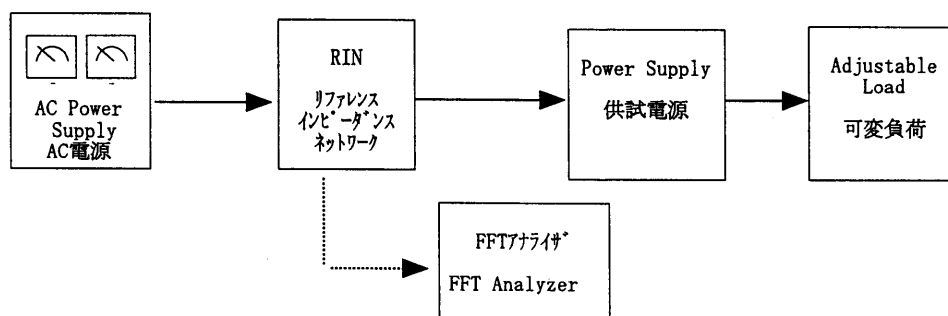


Figure E