



TEST DATA OF LFP300F-36-TY

Regulated DC Power Supply
November 8, 2011

Approved by : *Yoshiaki Shimizu*
Yoshiaki Shimizu Design Manager

Prepared by : *Tomoyuki Mukaiyama*
Tomoyuki Mukaiyama Design Engineer

COSEL CO.,LTD.

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(Final Page 25)

Model

LFP300F-36-TY

Item

Input Current (by Load Current)

Object

1.Graph

—△—

Input Volt.

100V

---□---

Input Volt.

200V

-·-○-·-

Input Volt.

230V

Input Current [A]

5.0

4.0

3.0

2.0

1.0

0.0

0

4

8

12

Load Current [A]

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

2.Values

Load Current [A]	Input Current [A]		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
0.0	0.132	0.200	0.223
1.5	0.826	0.472	0.446
3.0	1.420	0.770	0.691
4.5	2.003	1.054	0.940
6.0	2.596	1.384	1.197
7.5	3.202	1.658	1.480
9.0	3.820	1.963	1.782
10.0	4.230	2.148	1.910
11.0	4.660	2.364	2.090
--	-	-	-
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Temperature

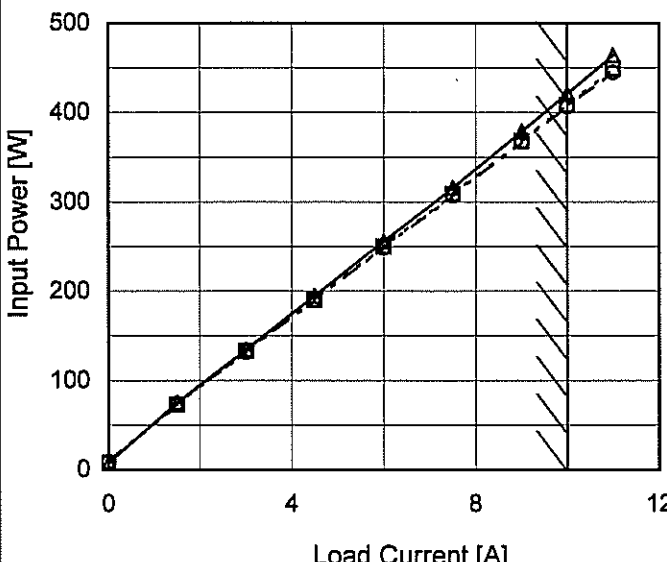
25°C

Testing Circuitry

Figure A

- 1 -

BC-10634

Model	LFP300F-36-TY																																																					
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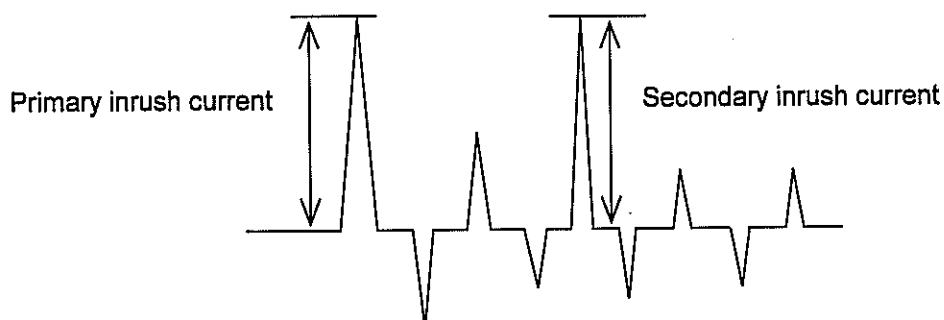
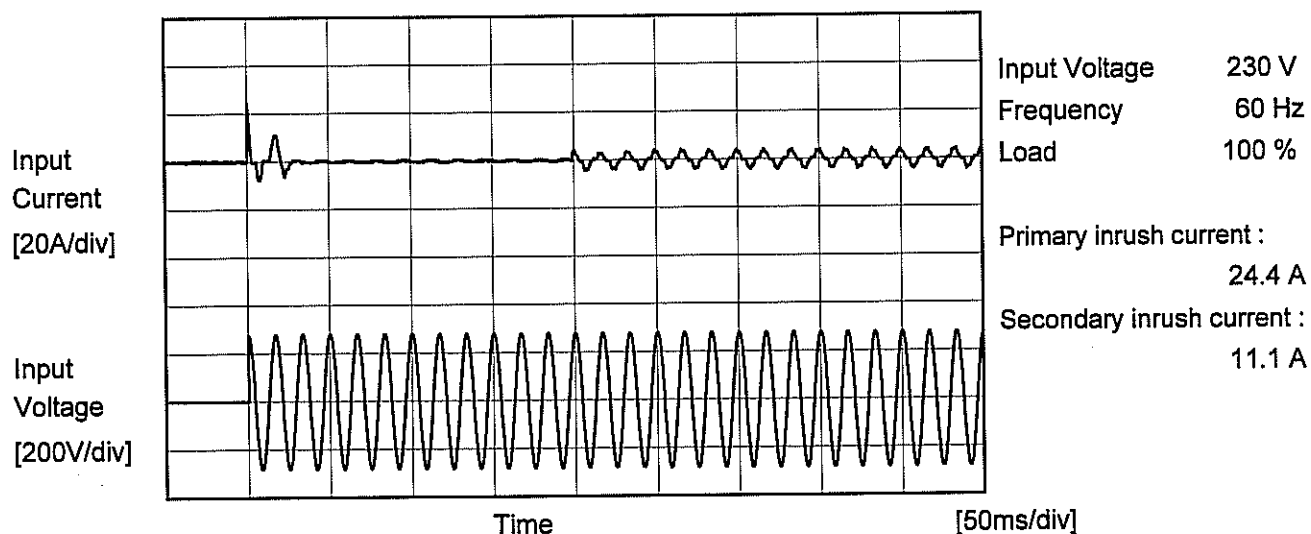
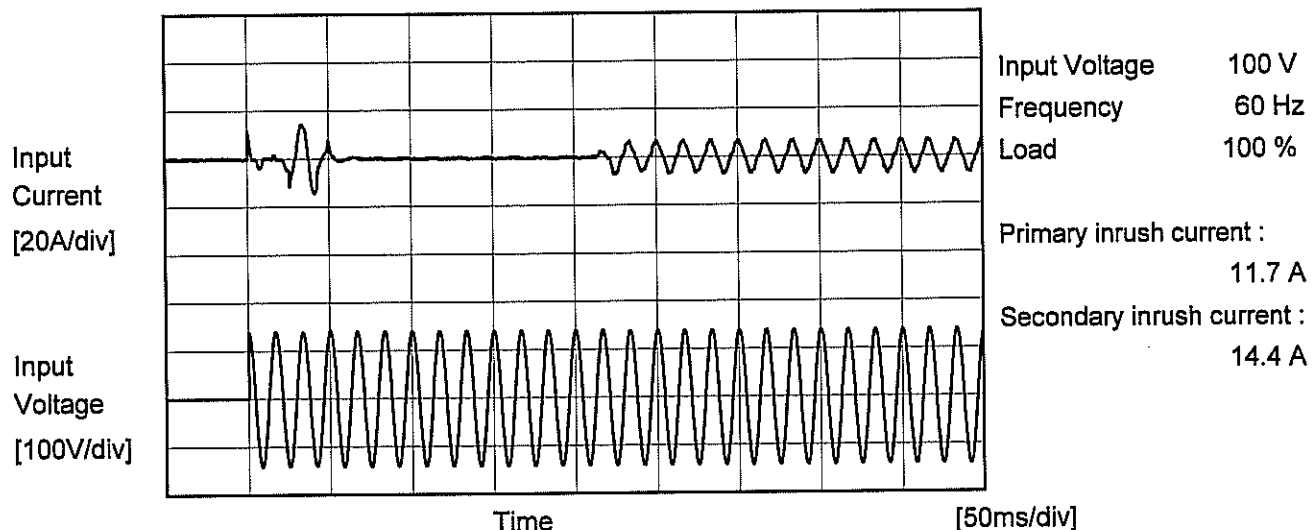
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Model	LFP300F-36-TY	Temperature	25°C
Item	Inrush Current	Testing Circuitry	Figure A
Object	_____		





		Temperature 25°C Testing Circuitry Figure B
Model	LFP300F-36-TY	
Item	Leakage Current	
Object	_____	

1.Results

[mA]

Standards		Input Volt.			Note
		100 [V]	200 [V]	240 [V]	
DEN-AN	Both phases	0.33	0.53	0.60	Operation
	One of phases	0.34	0.70	0.83	Stand by
IEC60950-1	Both phases	0.24	0.50	0.57	Operation
	One of phases	0.32	0.68	0.74	Stand by

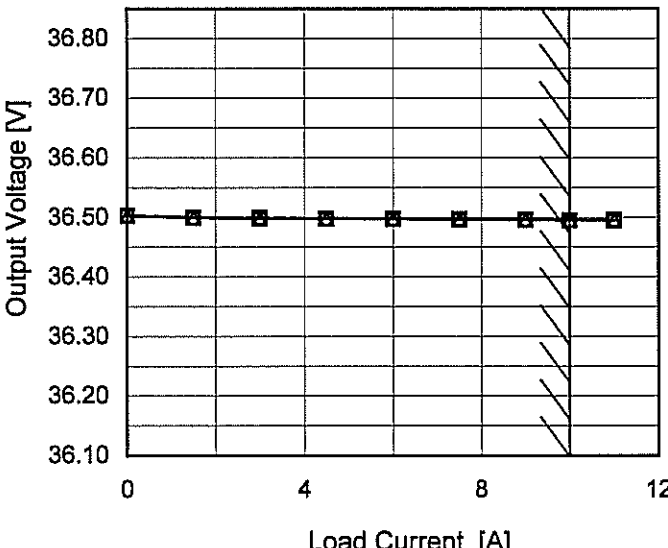
The value for "One of phases" is the reference value only.

2.Condition

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

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Input Voltage [V]	Output Voltage [V]																																																																
	Load 50%	Load 100%																																																															
75	36.498	36.495																																																															
85	36.498	36.496																																																															
100	36.498	36.496																																																															
120	36.498	36.495																																																															
200	36.498	36.495																																																															
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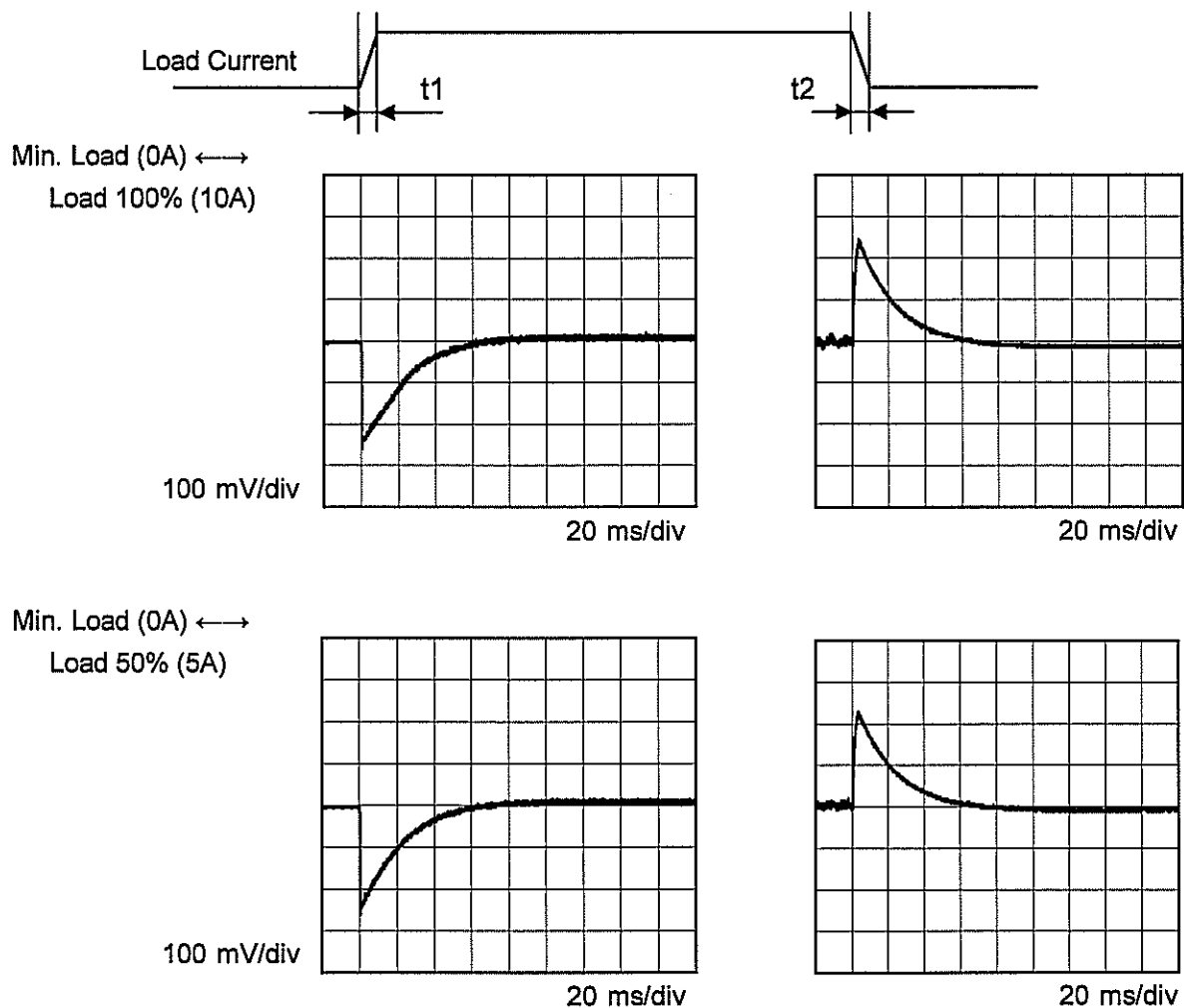
Model	LFP300F-36-TY																																																					
Item	Load Regulation	Temperature	25°C																																																			
Object	+36V10A	Testing Circuitry	Figure A																																																			
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>Input Volt. 100V</div></div><div><div>---□---</div><div>Input Volt. 200V</div></div><div><div>---○---</div><div>Input Volt. 230V</div></div></div> 		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.0</td><td>36.503</td><td>36.503</td><td>36.503</td></tr><tr><td>1.5</td><td>36.500</td><td>36.500</td><td>36.500</td></tr><tr><td>3.0</td><td>36.499</td><td>36.499</td><td>36.499</td></tr><tr><td>4.5</td><td>36.498</td><td>36.498</td><td>36.498</td></tr><tr><td>6.0</td><td>36.497</td><td>36.498</td><td>36.498</td></tr><tr><td>7.5</td><td>36.497</td><td>36.497</td><td>36.497</td></tr><tr><td>9.0</td><td>36.496</td><td>36.497</td><td>36.497</td></tr><tr><td>10.0</td><td>36.496</td><td>36.495</td><td>36.495</td></tr><tr><td>11.0</td><td>36.495</td><td>36.495</td><td>36.496</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]	Output Voltage [V]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	36.503	36.503	36.503	1.5	36.500	36.500	36.500	3.0	36.499	36.499	36.499	4.5	36.498	36.498	36.498	6.0	36.497	36.498	36.498	7.5	36.497	36.497	36.497	9.0	36.496	36.497	36.497	10.0	36.496	36.495	36.495	11.0	36.495	36.495	36.496	--	-	-	-	--	-	-	-
Load Current [A]	Output Voltage [V]																																																					
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Note: Slanted line shows the range of the rated load current.																																																						

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Model	LFP300F-36-TY	Temperature Testing Circuitry	25° C Figure A
Item	Dynamic Load Response		
Object	+36V10A		

Input Volt. 100 V
Cycle 1000 ms

Response. $t_1=t_2=50\mu\text{s}$. Typ



Model	LFP300F-36-TY																																								
Item	Ripple Voltage (by Load Current)	Temperature	25°C																																						
		Testing Circuitry	Figure C																																						
Object	+36V10A																																								
1.Graph		2.Values																																							
<div><div><div>—△— Input Volt. 100V</div><div>- - -○- - - Input Volt. 230V</div></div><div>Ripple Voltage [mV]</div><div>Load Current [A]</div></div> <table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 100 [V]</th><th>Input Volt. 230 [V]</th></tr><tr><td>0.0</td><td>20</td><td>20</td></tr><tr><td>1.5</td><td>20</td><td>20</td></tr><tr><td>3.0</td><td>20</td><td>20</td></tr><tr><td>4.5</td><td>25</td><td>25</td></tr><tr><td>6.0</td><td>30</td><td>30</td></tr><tr><td>7.5</td><td>35</td><td>35</td></tr><tr><td>9.0</td><td>40</td><td>40</td></tr><tr><td>10.0</td><td>50</td><td>50</td></tr><tr><td>11.0</td><td>55</td><td>55</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Load Current [A]	Ripple Voltage [mV]		Input Volt. 100 [V]	Input Volt. 230 [V]	0.0	20	20	1.5	20	20	3.0	20	20	4.5	25	25	6.0	30	30	7.5	35	35	9.0	40	40	10.0	50	50	11.0	55	55	--	-	-	--	-	-		
Load Current [A]	Ripple Voltage [mV]																																								
	Input Volt. 100 [V]	Input Volt. 230 [V]																																							
0.0	20	20																																							
1.5	20	20																																							
3.0	20	20																																							
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<div>Measured by 20 MHz Oscilloscope.</div> <div>Ripple Voltage is shown as p-p in the figure below.</div> <div>Note: Slanted line shows the range of the rated load current.</div>																																									
<div><div>T1: Due to AC Input Line</div><div>T2: Due to Switching</div><div>Ripple [mVp-p]</div><div>T1</div><div>T2</div></div>																																									
Fig. Complex Ripple Wave Form																																									

Model	LFP300F-36-TY																																								
Item	Ripple-Noise	Temperature	25°C																																						
Object	+36V10A	Testing Circuitry	Figure C																																						
1.Graph		2.Values																																							
<div><div><div>—△—</div><div>Input Volt. 100V</div></div><div><div>- -○- -</div><div>Input Volt. 230V</div></div></div> <p>Ripple-Noise [mV]</p> <p>Load Current [A]</p> <p>Measured by 20 MHz Oscilloscope. Ripple-Noise is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple-Noise [mV]</th></tr><tr><th>Input Volt. 100 [V]</th><th>Input Volt. 230 [V]</th></tr><tr><td>0.0</td><td>40</td><td>40</td></tr><tr><td>1.5</td><td>45</td><td>40</td></tr><tr><td>3.0</td><td>50</td><td>45</td></tr><tr><td>4.5</td><td>60</td><td>55</td></tr><tr><td>6.0</td><td>70</td><td>65</td></tr><tr><td>7.5</td><td>80</td><td>70</td></tr><tr><td>9.0</td><td>85</td><td>80</td></tr><tr><td>10.0</td><td>90</td><td>85</td></tr><tr><td>11.0</td><td>90</td><td>85</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. 100 [V]	Input Volt. 230 [V]	0.0	40	40	1.5	45	40	3.0	50	45	4.5	60	55	6.0	70	65	7.5	80	70	9.0	85	80	10.0	90	85	11.0	90	85	--	-	-	--	-	-
Load Current [A]	Ripple-Noise [mV]																																								
	Input Volt. 100 [V]	Input Volt. 230 [V]																																							
0.0	40	40																																							
1.5	45	40																																							
3.0	50	45																																							
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Model	LFP300F-36-TY																																											
Item	Ripple Voltage (by Ambient Temp.)	Testing Circuitry Figure C																																										
Object	+36V10A																																											
1.Graph		2.Values																																										
<div><div><div>---□---</div><div>Input Volt. 100V</div></div><div><div>—△—</div><div>Input Volt. 230V</div></div></div> <p>Ripple Voltage [mV]</p> <p>Ambient Temperature [°C]</p> <p>Load 100 %</p>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 100 [V]</th><th>Input Volt. 230 [V]</th></tr><tr><td>-30</td><td>110</td><td>110</td></tr><tr><td>-10</td><td>80</td><td>80</td></tr><tr><td>0</td><td>70</td><td>70</td></tr><tr><td>25</td><td>50</td><td>50</td></tr><tr><td>50</td><td>50</td><td>50</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><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>		Ambient Temperature [°C]	Ripple Voltage [mV]		Input Volt. 100 [V]	Input Volt. 230 [V]	-30	110	110	-10	80	80	0	70	70	25	50	50	50	50	50	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
Ambient Temperature [°C]	Ripple Voltage [mV]																																											
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Measured by MHz Oscilloscope. Note: Slanted line shows the range of the rated ambient temperature.																																												

Model	LFP300F-36-TY																																																						
Item	Ambient Temperature Drift		Testing Circuitry Figure A																																																				
Object	+36V10A																																																						
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Ambient Temperature [°C]	Output Voltage [V]																																																						
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																				
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		Testing Circuitry Figure A
Model	LFP300F-36-TY	
Item	Output Voltage Accuracy	
Object	+36V10A	

1. 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 : 85 - 264V

Load Current : 0 - 10A

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

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

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	40	264	0	36.502	±9	±0.1
Minimum Voltage	50	200	10	36.484		

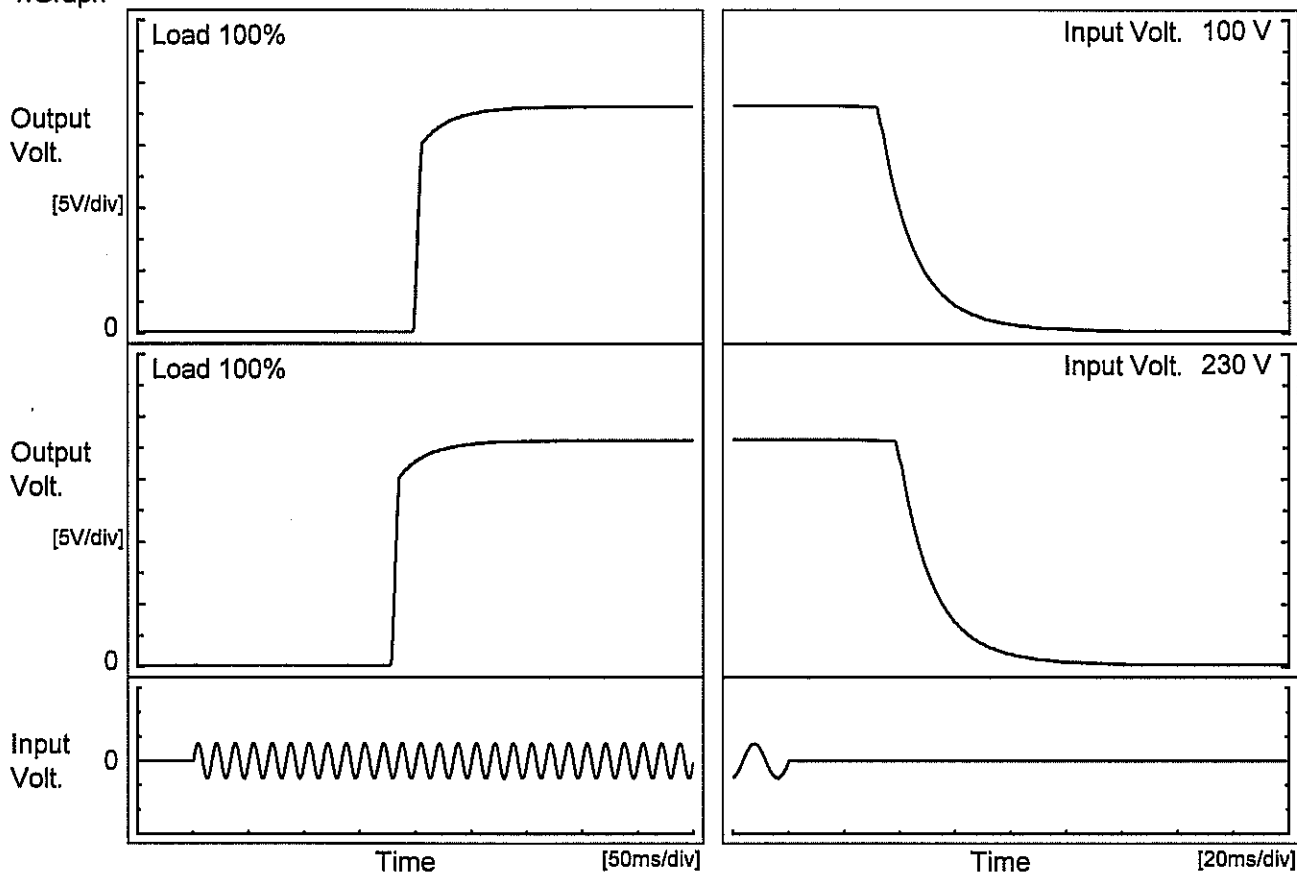


Model		LFP300F-36-TY	Temperature25°C Testing CircuitryFigure A
Item		Time Lapse Drift	
Object		+36V10A	
1.Graph		2.Values	
<div><div><div>Output Voltage [V]</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></di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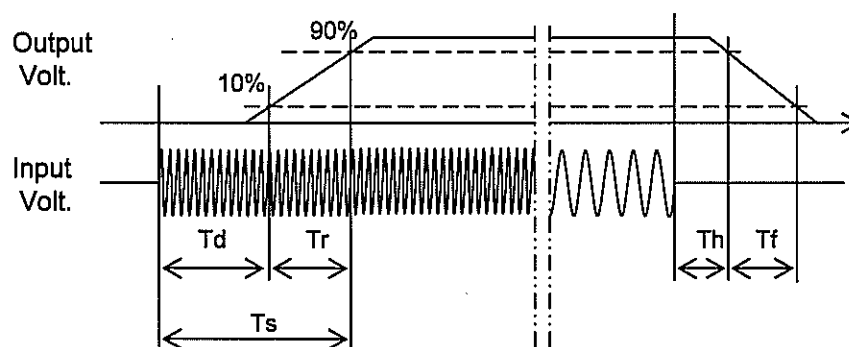
Model	LFP300F-36-TY	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+36V10A		

1. Graph



2. Values

Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		199.3	20.0	219.3	30.4	28.8
230 V		179.0	19.8	198.8	34.3	28.9





Model	LFP300F-36-TY																																																					
Item	Instantaneous Interruption Compensation	Temperature	25°C																																																			
Object	+36V10A	Testing Circuitry	Figure A																																																			
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>Input Volt. 100V</div></div><div><div>---□---</div><div>Input Volt. 200V</div></div><div><div>---○---</div><div>Input Volt. 230V</div></div></div> <p>Instantaneous Compensation Time [ms]</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [ms]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>1.5</td><td>114</td><td>209</td><td>214</td></tr><tr><td>3.0</td><td>56</td><td>113</td><td>114</td></tr><tr><td>4.5</td><td>37</td><td>79</td><td>80</td></tr><tr><td>6.0</td><td>27</td><td>55</td><td>62</td></tr><tr><td>7.5</td><td>22</td><td>40</td><td>43</td></tr><tr><td>9.0</td><td>19</td><td>36</td><td>36</td></tr><tr><td>10.0</td><td>14</td><td>31</td><td>32</td></tr><tr><td>11.0</td><td>14</td><td>27</td><td>28</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]	Time [ms]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	-	-	-	1.5	114	209	214	3.0	56	113	114	4.5	37	79	80	6.0	27	55	62	7.5	22	40	43	9.0	19	36	36	10.0	14	31	32	11.0	14	27	28	--	-	-	-	--	-	-	-
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Model

LFP300F-36-TY

Item

Minimum Input Voltage
for Regulated Output Voltage

Object

+36V10A

1.Graph

---□---

Load 50%

—△—

Load 100%

Input Voltage [V]

100

80

60

40

20

0

40

20

0

-20

-40

0

20

40

60

80

Ambient Temperature [°C]

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

2.Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	38	51
-10	38	50
0	38	51
10	38	50
20	38	50
25	38	50
30	37	50
40	37	50
50	37	51
60	37	51
--	-	-



Model	LFP300F-36-TY																																														
Item	Overcurrent Protection	Temperature	25°C																																												
Object	+36V10A	Testing Circuitry	Figure A																																												
1.Graph		2.Values																																													
<div><div><div></div>Input Volt. 100V</div><div><div></div>Input Volt. 230V</div></div> <p>Output Voltage [V]</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p> <p>Intermittent operation occurs when the output voltage is from 25V to 0V.</p>		<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="2">Load Current [A]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>36.0</td><td>19.79</td><td>19.82</td></tr><tr><td>34.2</td><td>19.83</td><td>19.85</td></tr><tr><td>32.4</td><td>19.86</td><td>19.90</td></tr><tr><td>28.8</td><td>19.98</td><td>20.03</td></tr><tr><td>25.2</td><td>20.14</td><td>20.21</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><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>		Output Voltage [V]	Load Current [A]		Input Volt. 100[V]	Input Volt. 230[V]	36.0	19.79	19.82	34.2	19.83	19.85	32.4	19.86	19.90	28.8	19.98	20.03	25.2	20.14	20.21	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
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COSEL

Model

LFP300F-36-TY

Item

Overvoltage Protection

Object

+36V10A

1.Graph

—△—

Input Volt. 100V

---□---

Input Volt. 230V

Operating Point [V]

51

49

47

45

43

41

</

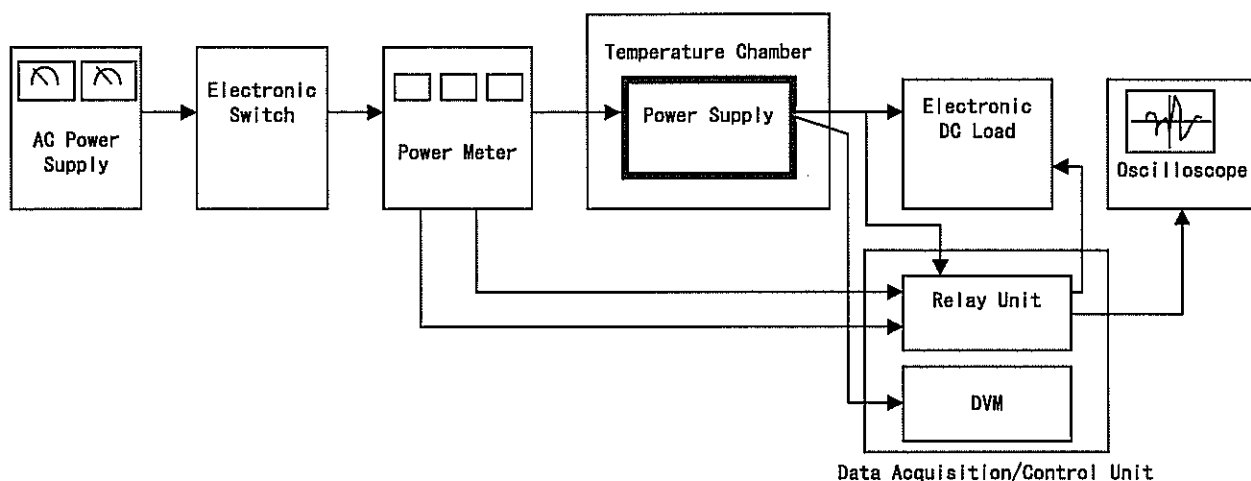


Figure A

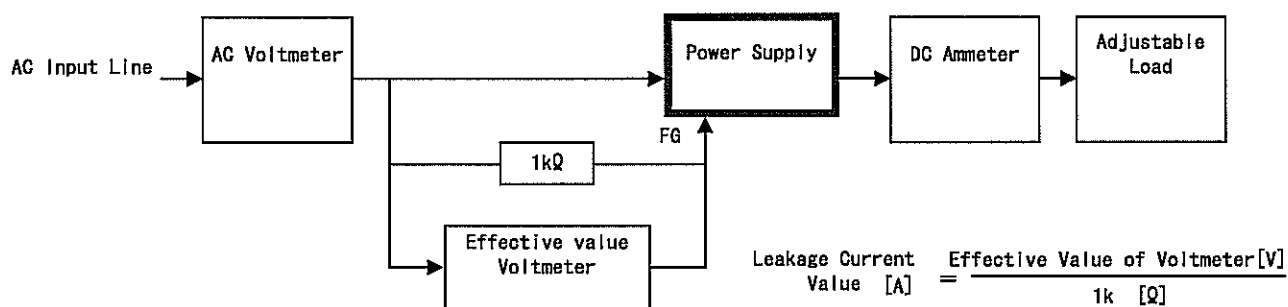


Figure B (DEN-AN)

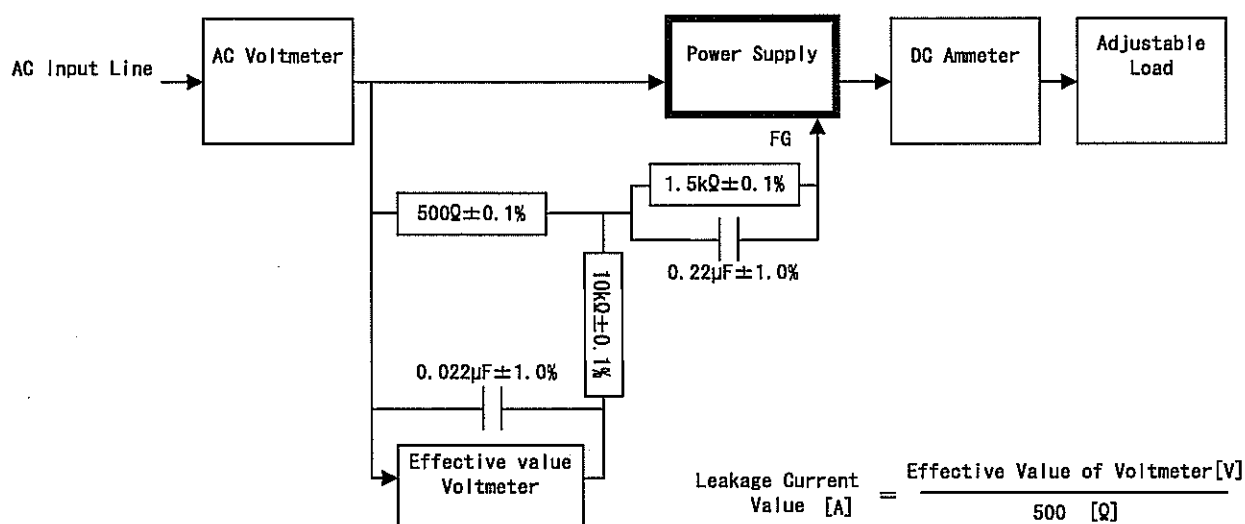


Figure B (IEC60950-1)

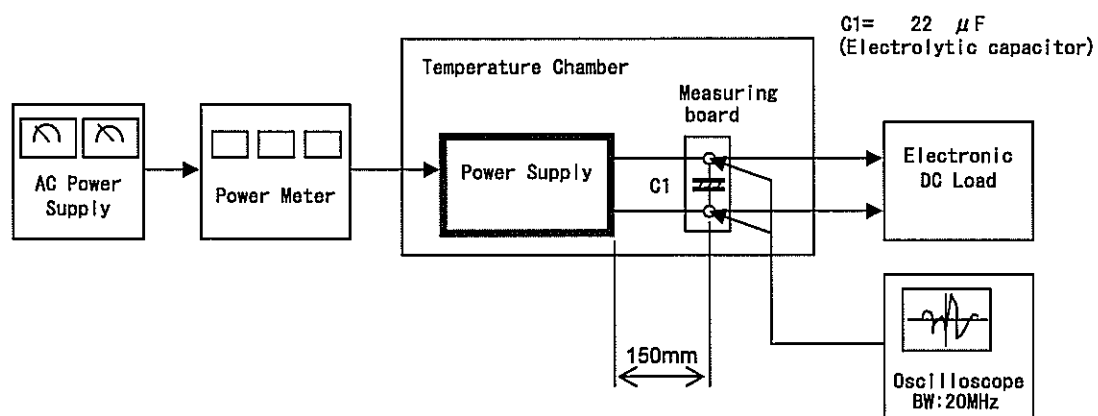


Figure C