

# TEST DATA OF LFA300F-48-TY

Regulated DC Power Supply  
December 20, 2010

Approved by : *Yoshiaki Shimizu*  
Yoshiaki Shimizu Design Manager

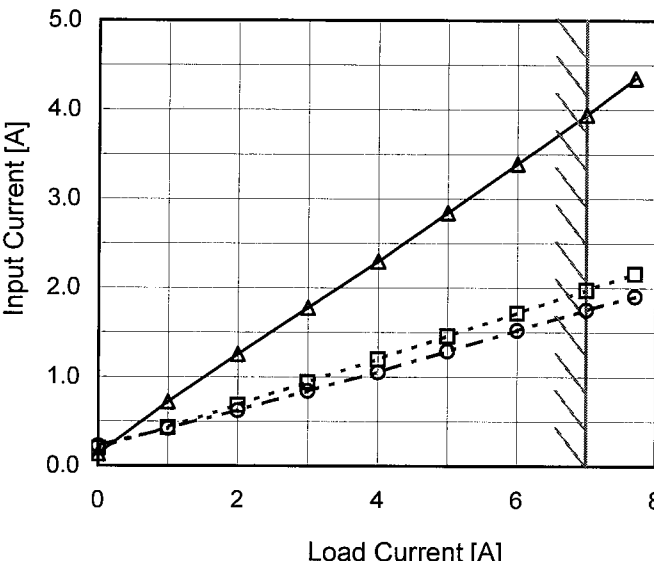
Prepared by : *Tomoyuki Mukaiyama*  
Tomoyuki Mukaiyama Design Engineer

**COSEL CO.,LTD.**

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Model		LFA300F-48-TY																																																				
Item		Input Current (by Load Current)																																																				
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Model		LFA300F-48-TY	Temperature25°C Testing CircuitryFigure A
Item		Efficiency (by Input Voltage)	
Object			
1.Graph			2.Values
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Model

LFA300F-48-TY

Item

Efficiency (by Load Current)

Object

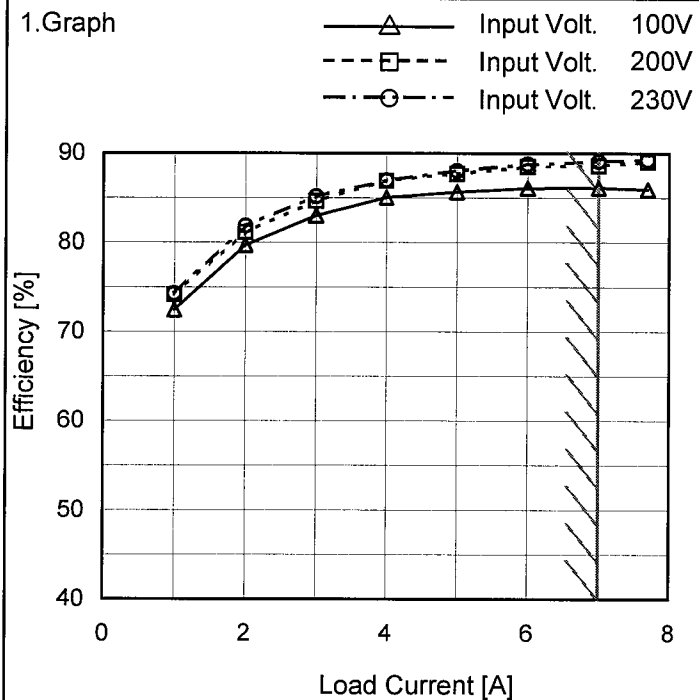
Temperature

25°C

Testing Circuitry

Figure A

1. Graph



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

2. Values

Load Current [A]	Efficiency [%]		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
0.0	-	-	-
1.0	72.4	74.2	74.3
2.0	79.7	81.1	81.8
3.0	83.0	84.7	85.2
4.0	85.0	86.9	86.9
5.0	85.7	87.7	88.0
6.0	86.1	88.5	88.8
7.0	86.2	88.6	89.1
7.7	86.0	89.0	89.3
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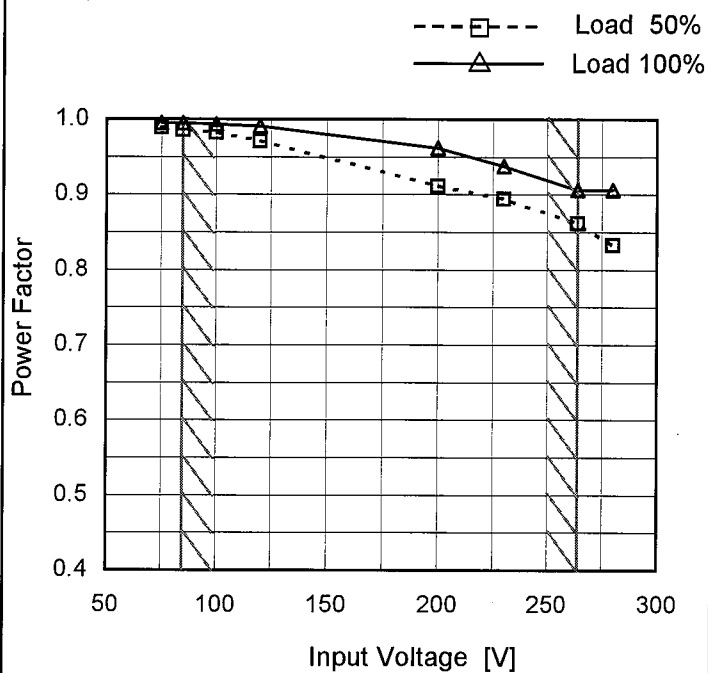
Model LFA300F-48-TY

Item Power Factor (by Input Voltage)

Object

Temperature 25°C  
Testing Circuitry Figure A

## 1. Graph



## 2. Values

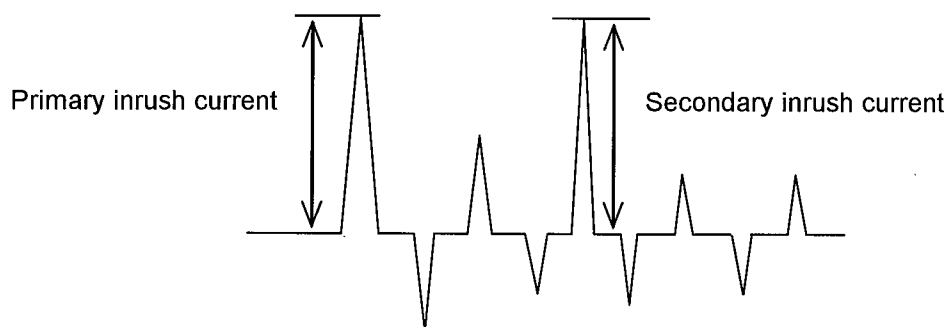
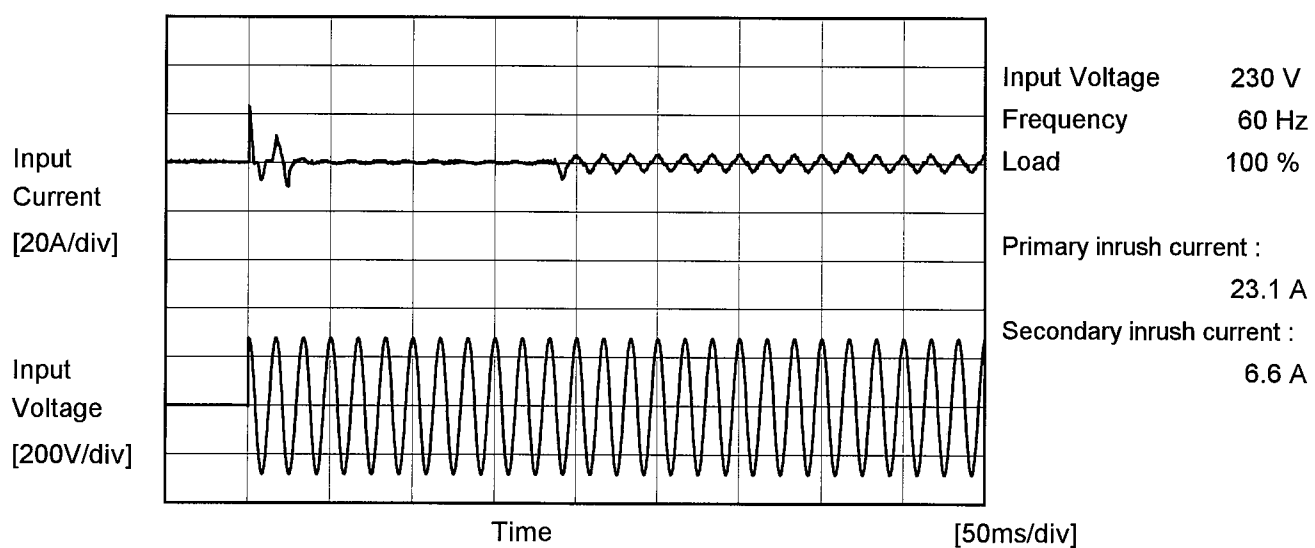
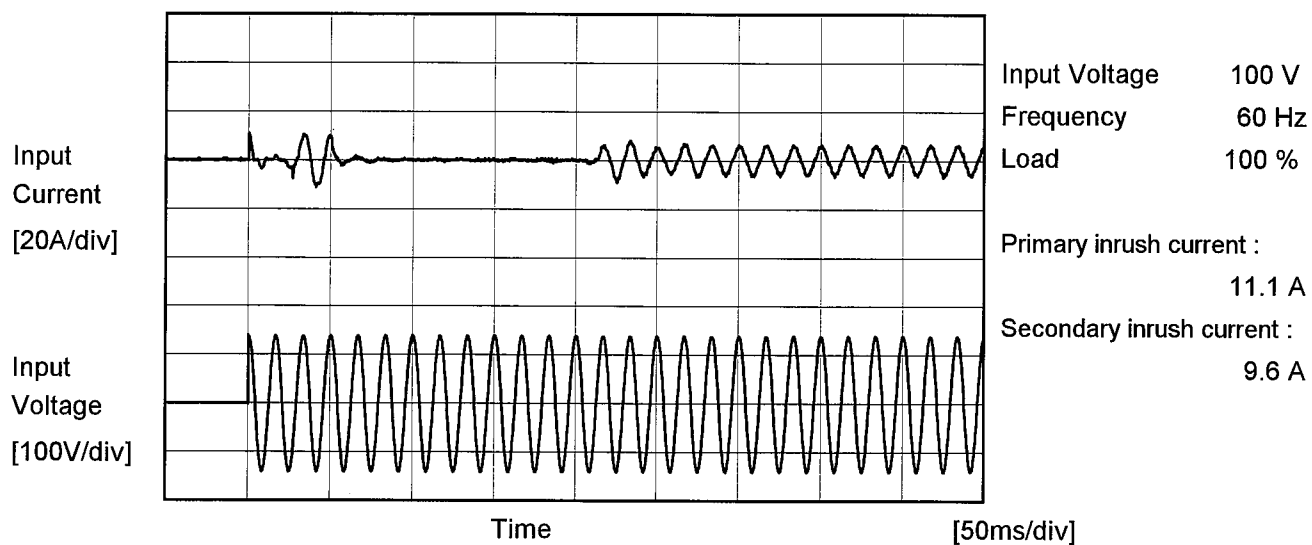
Input Voltage [V]	Power Factor	
	Load 50%	Load 100%
75	0.989	0.995
85	0.986	0.995
100	0.982	0.993
120	0.971	0.991
200	0.912	0.962
230	0.894	0.938
264	0.862	0.906
280	0.833	0.906
--	-	-

Model		LFA300F-48-TY																																																				
Item		Power Factor (by Load Current)																																																				
Object																																																						
1.Graph		<div><div>—△—</div>Input Volt. 100V</div> <div><div>---□---</div>Input Volt. 200V</div> <div><div>---○---</div>Input Volt. 230V</div> <table><thead><tr><th>Load Current [A]</th><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr></thead><tbody><tr><td>0.0</td><td>0.455</td><td>0.150</td><td>0.137</td></tr><tr><td>1.0</td><td>0.912</td><td>0.744</td><td>0.660</td></tr><tr><td>2.0</td><td>0.958</td><td>0.861</td><td>0.818</td></tr><tr><td>3.0</td><td>0.979</td><td>0.904</td><td>0.876</td></tr><tr><td>4.0</td><td>0.986</td><td>0.921</td><td>0.913</td></tr><tr><td>5.0</td><td>0.989</td><td>0.938</td><td>0.922</td></tr><tr><td>6.0</td><td>0.991</td><td>0.948</td><td>0.929</td></tr><tr><td>7.0</td><td>0.993</td><td>0.962</td><td>0.938</td></tr><tr><td>7.7</td><td>0.995</td><td>0.963</td><td>0.947</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 Current [A]	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	0.455	0.150	0.137	1.0	0.912	0.744	0.660	2.0	0.958	0.861	0.818	3.0	0.979	0.904	0.876	4.0	0.986	0.921	0.913	5.0	0.989	0.938	0.922	6.0	0.991	0.948	0.929	7.0	0.993	0.962	0.938	7.7	0.995	0.963	0.947	--	-	-	-	--	-	-	-			
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# COSEL

Model		LFA300F-48-TY	Temperature 25°C Testing Circuitry Figure A
Item		Inrush Current	
Object		_____	



Model		LFA300F-48-TY	Temperature 25°C Testing Circuitry Figure B
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.

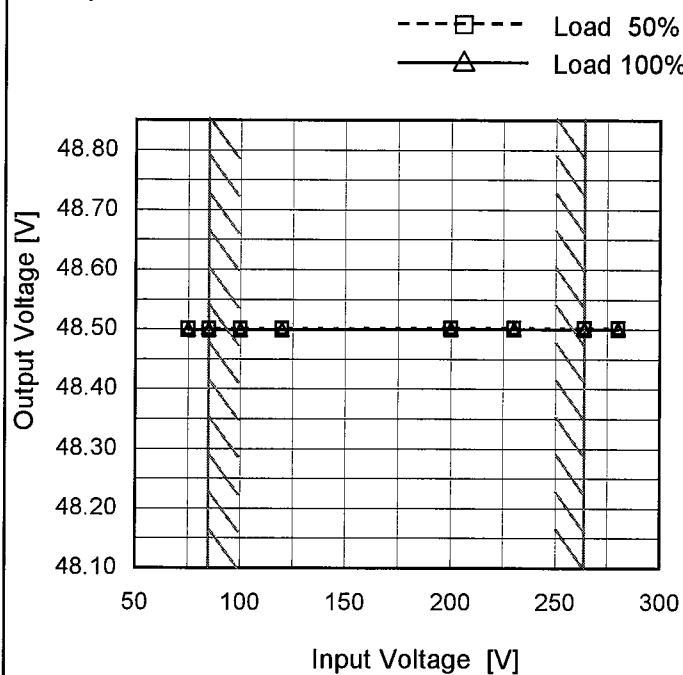
Model LFA300F-48-TY

Item Line Regulation

Object +48V7A

Temperature 25°C  
Testing Circuitry Figure A

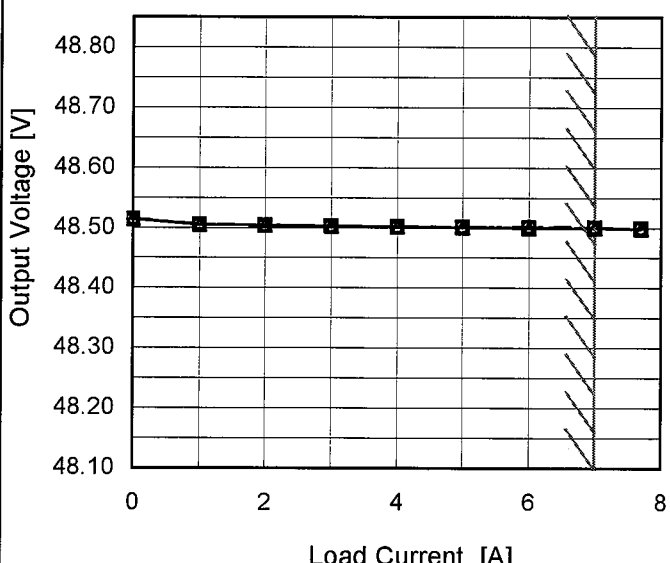
### 1. Graph



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

### 2. Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
75	48.502	48.500
85	48.501	48.500
100	48.501	48.500
120	48.501	48.500
200	48.502	48.500
230	48.502	48.500
264	48.502	48.500
280	48.502	48.500
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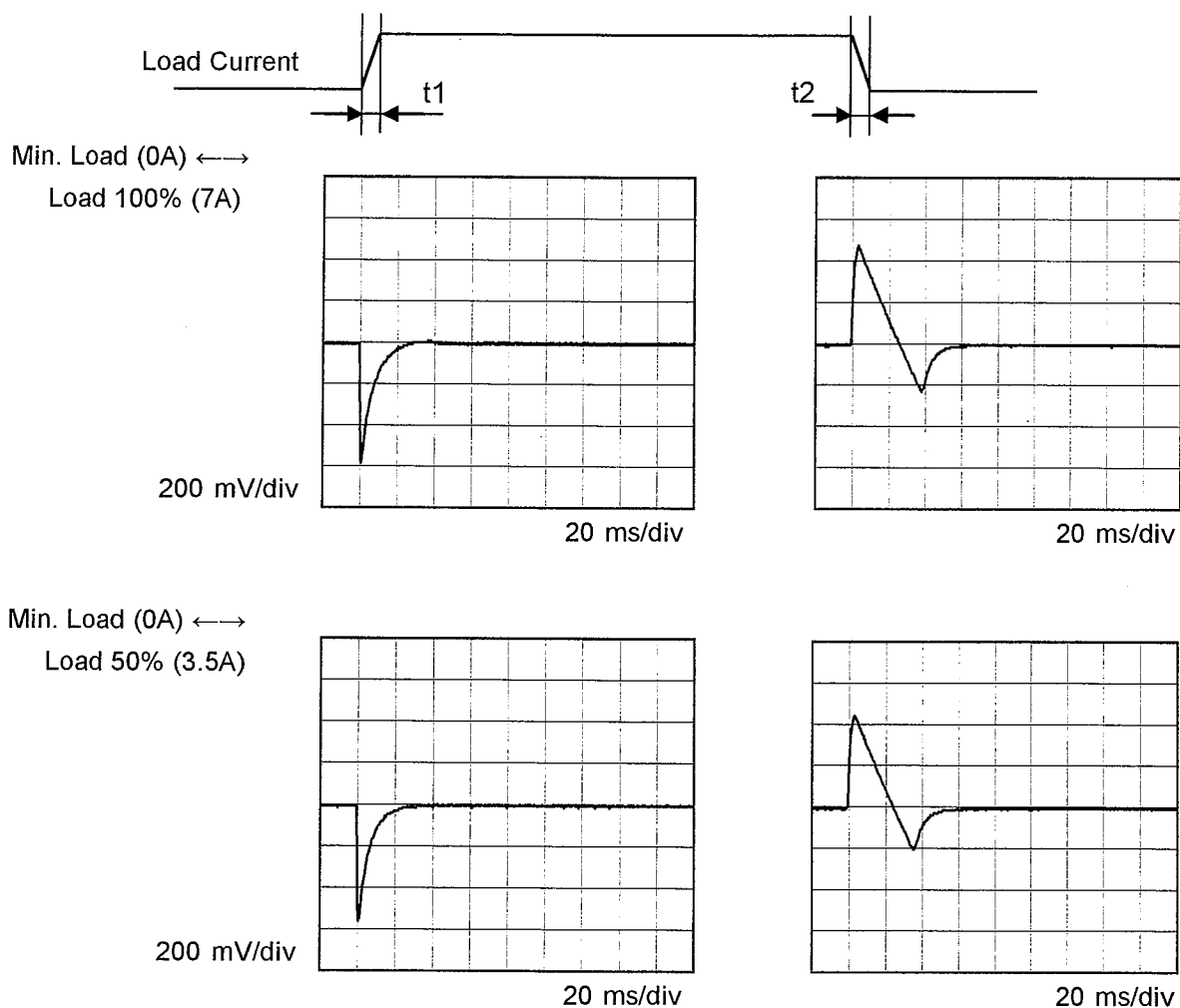
Model	LFA300F-48-TY																																																					
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Object	+48V7A																																																					
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**COSEL**

Model	LFA300F-48-TY	Temperature	25°C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+48V7A		

Input Volt. 100 V  
Cycle 1000 ms

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



# COSEL

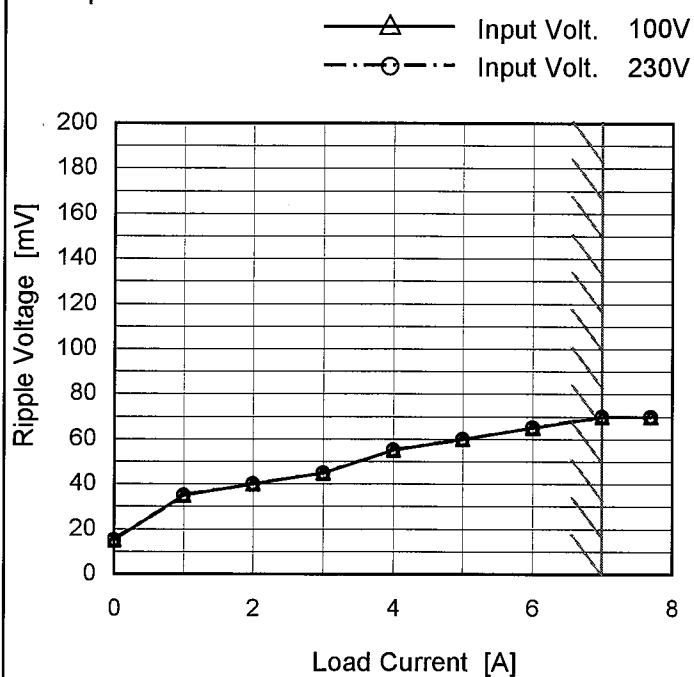
Model LFA300F-48-TY

Item Ripple Voltage (by Load Current)

Object +48V7A

Temperature 25°C  
Testing Circuitry Figure C

## 1. Graph



Measured by 20 MHz Oscilloscope.

Ripple Voltage is shown as p-p in the figure below.

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

## 2. Values

Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 100 [V]	Input Volt. 230 [V]
0.0	15	15
1.0	35	35
2.0	40	40
3.0	45	45
4.0	55	55
5.0	60	60
6.0	65	65
7.0	70	70
7.7	70	70
--	-	-
--	-	-

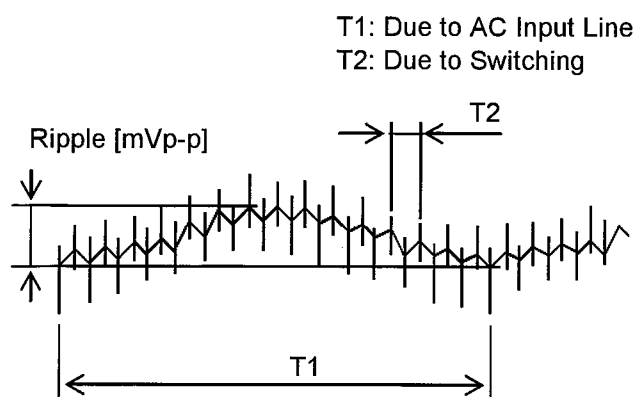
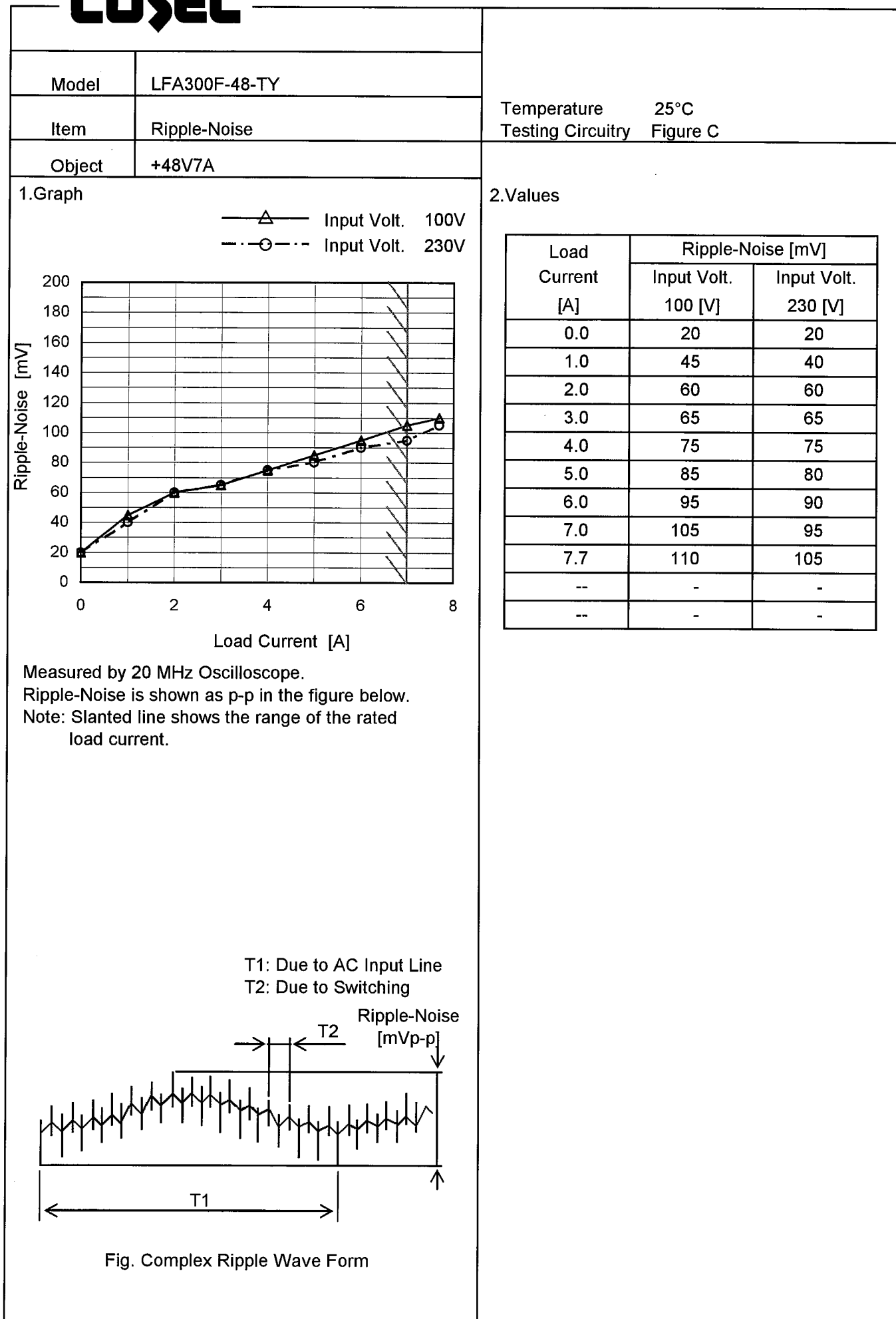


Fig. Complex Ripple Wave Form

# COSEL



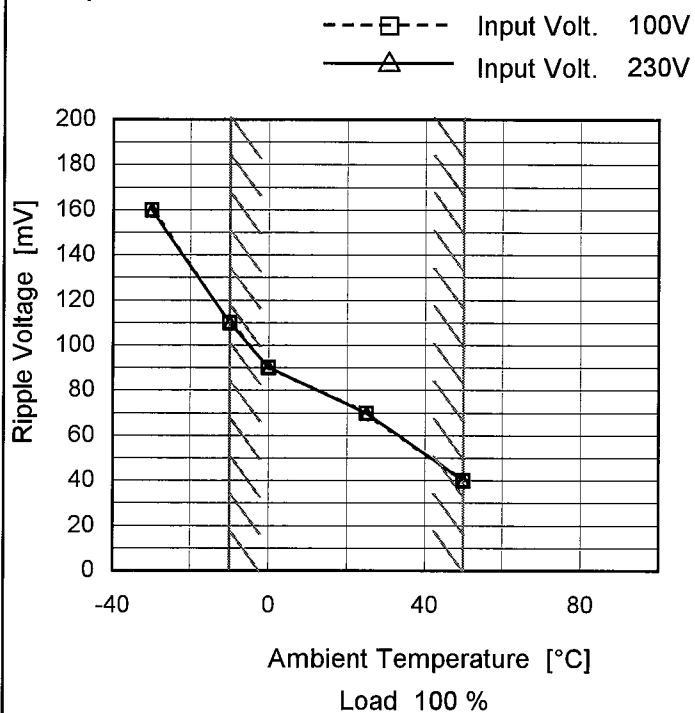
Model LFA300F-48-TY

Item Ripple Voltage (by Ambient Temp.)

Object +48V7A

Testing Circuitry Figure C

## 1. Graph



Measured by 20 MHz Oscilloscope.


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

## 2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Input Volt. 100 [V]	Input Volt. 230 [V]
-30	160	160
-10	110	110
0	90	90
25	70	70
50	40	40
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-



Model		LFA300F-48-TY																																																				
Item		Ambient Temperature Drift																																																				
Object		+48V7A																																																				
1.Graph		2.Values																																																				
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Model	LFA300F-48-TY		
Item	Output Voltage Accuracy		Testing Circuitry    Figure A
Object	+48V7A		

### 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 - 7A

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

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

### 2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	30	264	0	48.520	±30	±0.1
Minimum Voltage	-10	85	7	48.460		

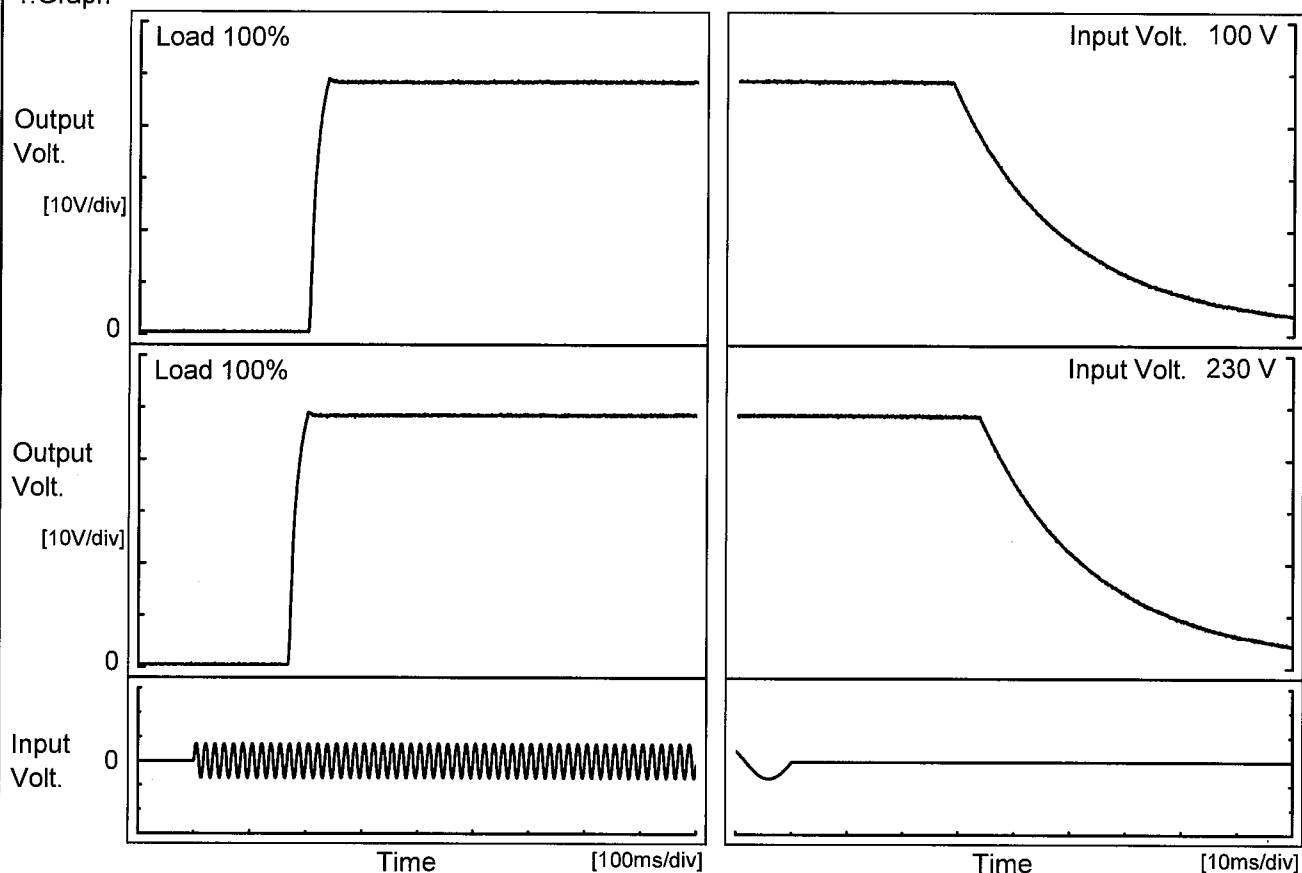
# COSEL

LUXEL			
Model	LFA300F-48-TY		
Item	Time Lapse Drift	Temperature	25°C
		Testing Circuitry	Figure A
Object	+48V7A		
1.Graph		2.Values	
<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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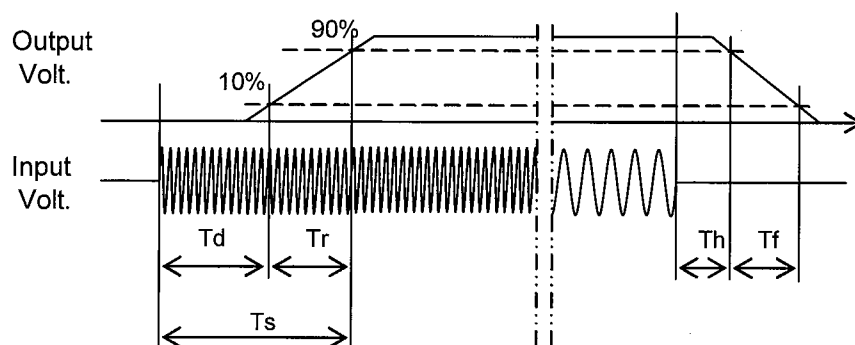
Model	LFA300F-48-TY	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+48V7A		

## 1. Graph



## 2. Values

Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		205.0	21.5	226.5	30.4	50.7
230 V		171.0	22.0	193.0	36.0	49.2



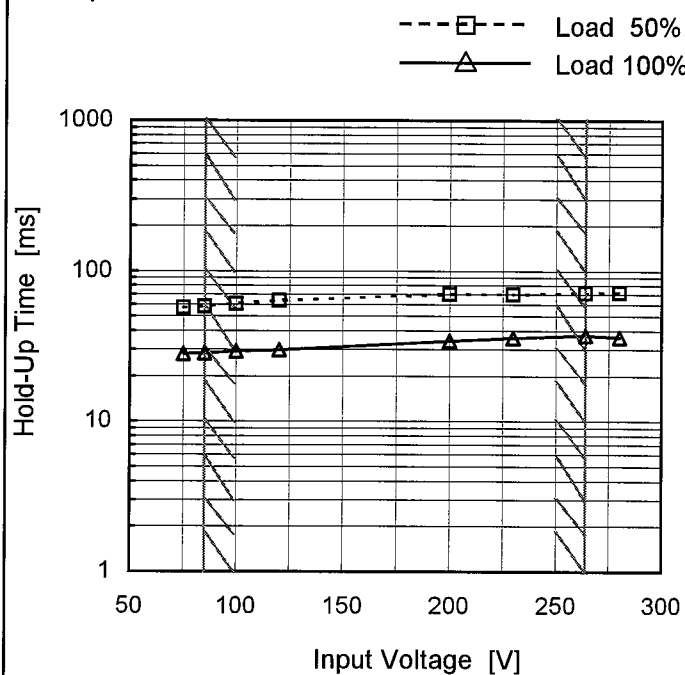
Model LFA300F-48-TY

Item Hold-Up Time

Object +48V7A

Temperature 25°C  
Testing Circuitry Figure A

## 1. Graph



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.

## 2. Values

Input Voltage [V]	Hold-Up Time [ms]	
	Load 50%	Load 100%
75	57	28
85	58	28
100	60	30
120	63	30
200	70	34
230	70	36
264	72	38
280	72	36
--	-	-

Model	LFA300F-48-TY																																																					
Item	Instantaneous Interruption Compensation	Temperature	25°C																																																			
Object	+48V7A	Testing Circuitry	Figure A																																																			
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>---□---</div><div>-·-○-·-</div></div><div><div>Input Volt.</div><div>Input Volt.</div><div>Input Volt.</div></div><div><div>100V</div><div>200V</div><div>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>1.0</td><td>121</td><td>132</td><td>222</td></tr><tr><td>2.0</td><td>62</td><td>71</td><td>119</td></tr><tr><td>3.0</td><td>39</td><td>48</td><td>80</td></tr><tr><td>4.0</td><td>28</td><td>37</td><td>38</td></tr><tr><td>5.0</td><td>22</td><td>30</td><td>32</td></tr><tr><td>6.0</td><td>21</td><td>25</td><td>26</td></tr><tr><td>7.0</td><td>19</td><td>22</td><td>22</td></tr><tr><td>7.7</td><td>14</td><td>20</td><td>21</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	-	-	-	1.0	121	132	222	2.0	62	71	119	3.0	39	48	80	4.0	28	37	38	5.0	22	30	32	6.0	21	25	26	7.0	19	22	22	7.7	14	20	21	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																					
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
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1.0	121	132	222																																																			
2.0	62	71	119																																																			
3.0	39	48	80																																																			
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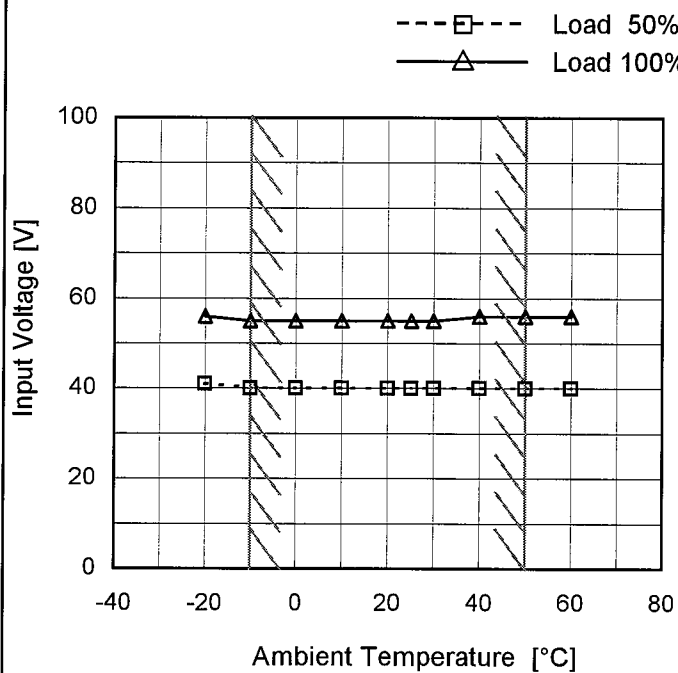
Model LFA300F-48-TY

Item Minimum Input Voltage  
for Regulated Output Voltage

Object +48V7A

Testing Circuitry Figure A

## 1. Graph



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

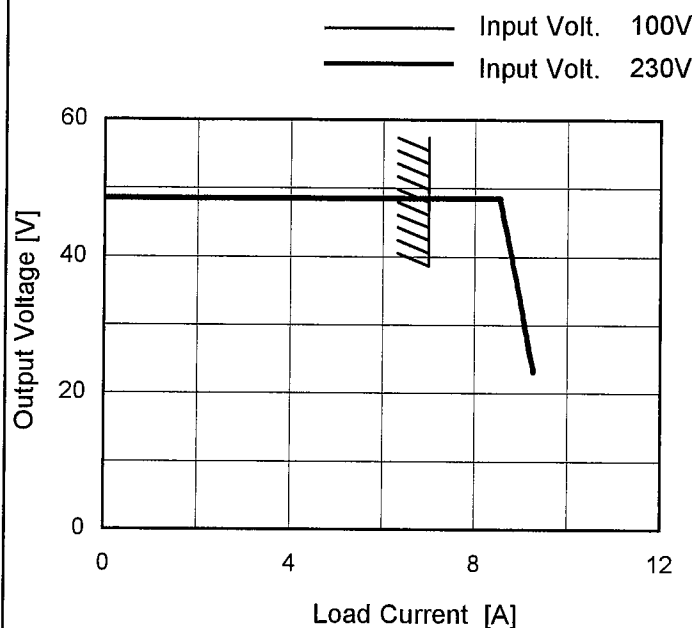
## 2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	41	56
-10	40	55
0	40	55
10	40	55
20	40	55
25	40	55
30	40	55
40	40	56
50	40	56
60	40	56
--	-	-

Model	LFA300F-48-TY
Item	Overcurrent Protection
Object	+48V7A

Temperature 25°C  
Testing Circuitry Figure A

## 1. Graph



Intermittent operation occurs when the output voltage is from 23V to 0V.

## 2. Values

Output Voltage [V]	Load Current [A]	
	Input Volt. 100[V]	Input Volt. 230[V]
48.0	8.57	8.56
45.6	8.64	8.62
43.2	8.71	8.70
38.4	8.85	8.84
33.6	8.99	8.99
28.8	9.12	9.12
24.0	9.24	9.24
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-



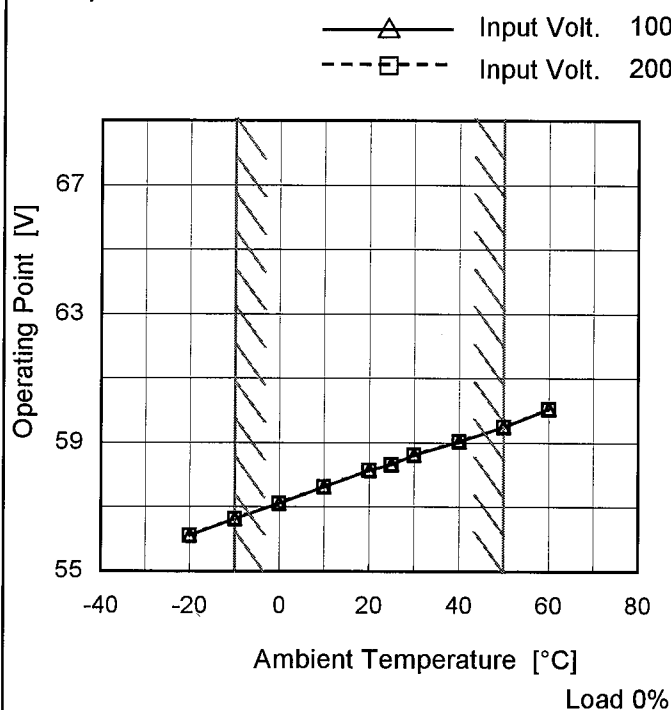
Model LFA300F-48-TY

Item Overvoltage Protection

Object +48V7A

Testing Circuitry Figure A

## 1. Graph



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

## 2. Values

Ambient Temperature [°C]	Operating Point [V]	
	Input Volt. 100[V]	Input Volt. 200[V]
-20	56.11	56.11
-10	56.63	56.63
0	57.10	57.10
10	57.63	57.63
20	58.15	58.15
25	58.33	58.33
30	58.62	58.62
40	59.03	59.03
50	59.50	59.50
60	60.05	60.05
--	-	-

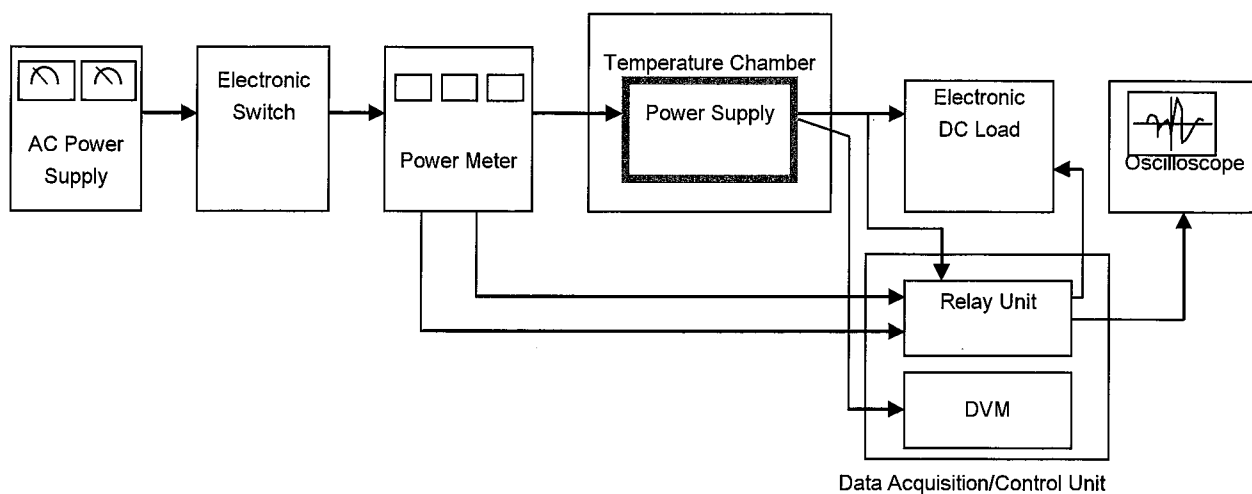


Figure A

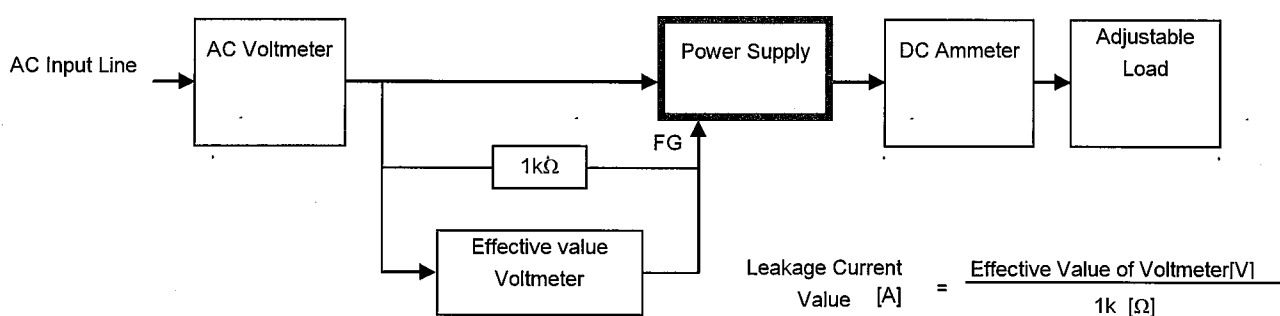


Figure B ( DEN-AN )

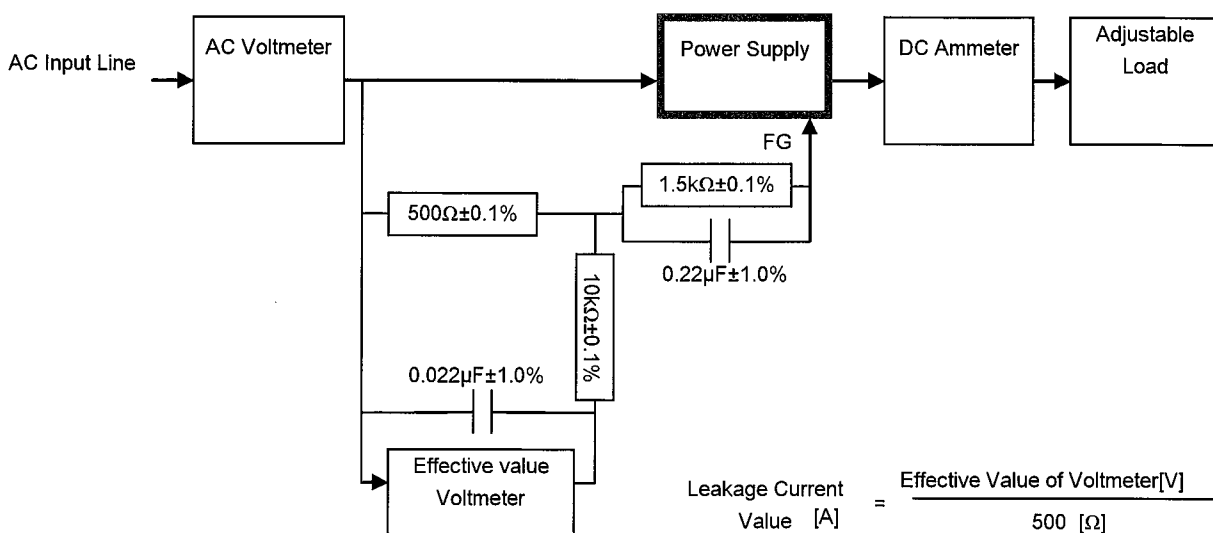


Figure B ( IEC60950-1 )

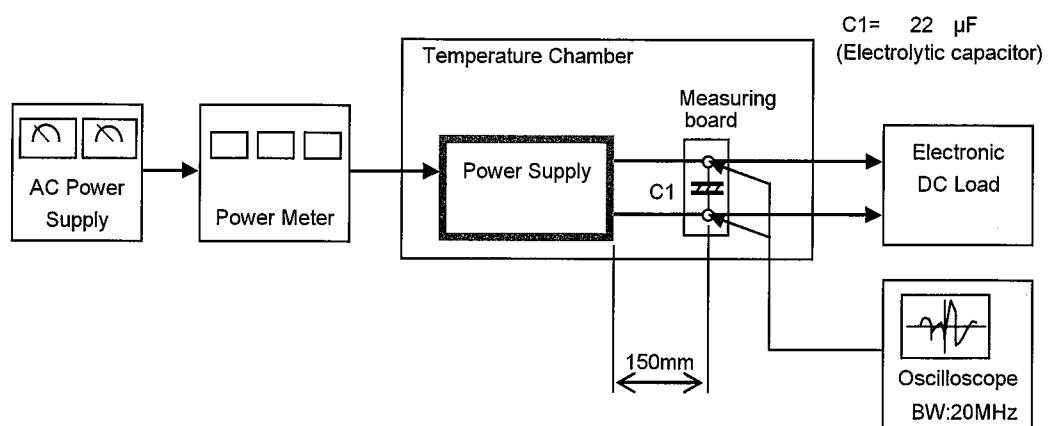


Figure C