

# TEST DATA OF PJA300F-48

Regulated DC Power Supply  
August 4, 2017

Approved by : Yukihiro Takehashi  
Yukihiro Takehashi Design Manager

Prepared by : Atsushi Nishikawa  
Atsushi Nishikawa Design Engineer

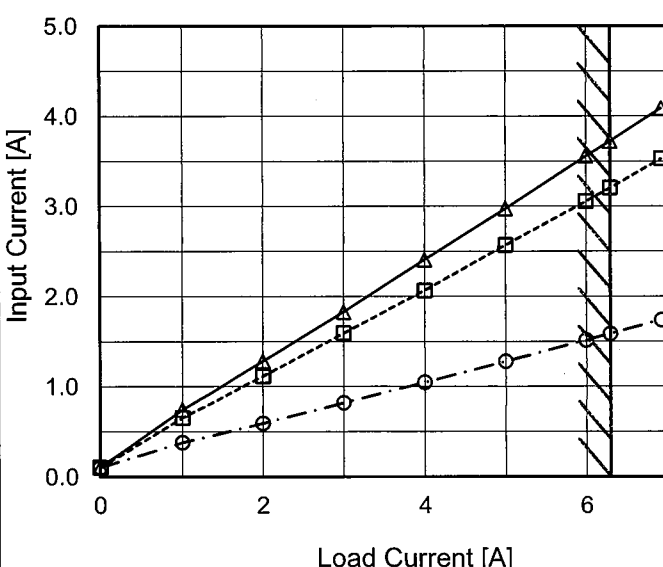
**COSEL CO.,LTD.**

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(Final Page 25)



Model		PJA300F-48	Temperature		25°C																																																			
Item		Input Current (by Load Current)	Testing Circuitry		Figure A																																																			
Object																																																								
1.Graph		<div><div>—△—</div><div>Input Volt.</div><div>100V</div></div> <div><div>---□---</div><div>Input Volt.</div><div>115V</div></div> <div><div>---○---</div><div>Input Volt.</div><div>230V</div></div>	2.Values																																																					
		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Current [A]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 115[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.00</td><td>0.108</td><td>0.105</td><td>0.105</td></tr><tr><td>1.00</td><td>0.743</td><td>0.654</td><td>0.381</td></tr><tr><td>2.00</td><td>1.283</td><td>1.115</td><td>0.594</td></tr><tr><td>3.00</td><td>1.828</td><td>1.592</td><td>0.821</td></tr><tr><td>4.00</td><td>2.406</td><td>2.066</td><td>1.048</td></tr><tr><td>5.00</td><td>2.975</td><td>2.570</td><td>1.279</td></tr><tr><td>6.00</td><td>3.557</td><td>3.056</td><td>1.515</td></tr><tr><td>6.30</td><td>3.721</td><td>3.205</td><td>1.587</td></tr><tr><td>6.93</td><td>4.088</td><td>3.528</td><td>1.739</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. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]	0.00	0.108	0.105	0.105	1.00	0.743	0.654	0.381	2.00	1.283	1.115	0.594	3.00	1.828	1.592	0.821	4.00	2.406	2.066	1.048	5.00	2.975	2.570	1.279	6.00	3.557	3.056	1.515	6.30	3.721	3.205	1.587	6.93	4.088	3.528	1.739	--	-	-	-	--	-	-	-
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Note: Slanted line shows the range of the rated load current.																																																								

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Model PJA300F-48

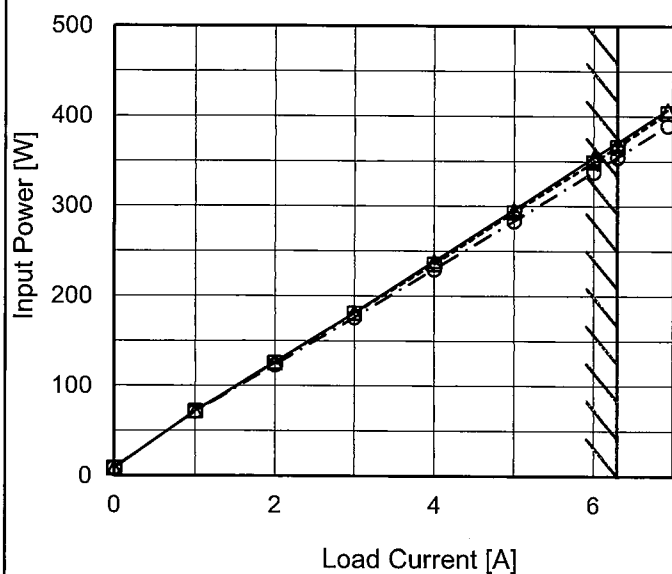
Item Input Power (by Load Current)

Object

Temperature 25°C  
Testing Circuitry Figure A

1.Graph

—△— Input Volt. 100V  
---□--- Input Volt. 115V  
-·-○-·- Input Volt. 230V



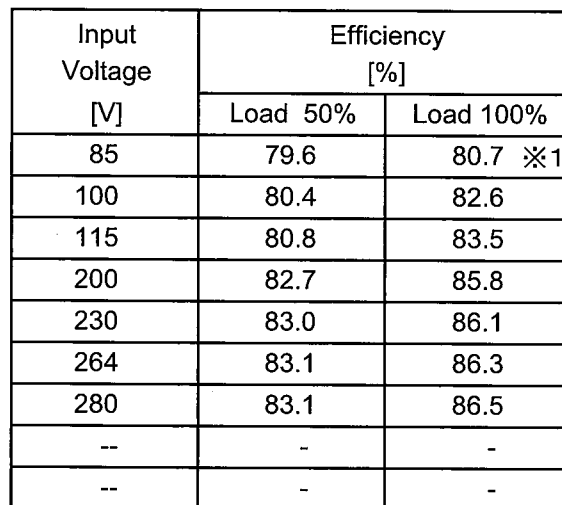
Note: Slanted line shows the range of the rated load current.

2.Values

Load Current [A]	Input Power [W]		
	Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]
0.00	8.2	8.6	8.8
1.00	72.2	71.8	71.5
2.00	126.5	125.6	123.3
3.00	181.3	180.7	176.1
4.00	238.8	235.4	229.8
5.00	295.9	293.3	283.5
6.00	354.1	349.2	338.0
6.30	370.4	366.2	354.5
6.93	407.2	403.7	389.6
--	-	-	-
--	-	-	-

Temperature	25°C
Testing Circuitry	Figure A

## 2.Values



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

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Model		PJA300F-48																																																				
Item		Efficiency (by Load Current)																																																				
Object																																																						
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>Input Volt.</div><div>100V</div></div><div><div>- - □ - -</div><div>Input Volt.</div><div>115V</div></div><div><div>- - ○ - -</div><div>Input Volt.</div><div>230V</div></div></div> <p>Efficiency [%]</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">Efficiency [%]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 115[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>1.00</td><td>67.1</td><td>67.5</td><td>67.8</td></tr><tr><td>2.00</td><td>76.5</td><td>77.3</td><td>78.7</td></tr><tr><td>3.00</td><td>80.2</td><td>80.5</td><td>82.4</td></tr><tr><td>4.00</td><td>81.2</td><td>82.3</td><td>84.3</td></tr><tr><td>5.00</td><td>81.8</td><td>82.6</td><td>85.5</td></tr><tr><td>6.00</td><td>82.0</td><td>83.3</td><td>86.0</td></tr><tr><td>6.30</td><td>82.3</td><td>83.4</td><td>86.0</td></tr><tr><td>6.93</td><td>82.4</td><td>83.1</td><td>86.2</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. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]	0.00	-	-	-	1.00	67.1	67.5	67.8	2.00	76.5	77.3	78.7	3.00	80.2	80.5	82.4	4.00	81.2	82.3	84.3	5.00	81.8	82.6	85.5	6.00	82.0	83.3	86.0	6.30	82.3	83.4	86.0	6.93	82.4	83.1	86.2	--	-	-	-	--	-	-	-
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Model		PJA300F-48		Temperature 25°C																																	
Item		Power Factor (by Input Voltage)		Testing Circuitry Figure A																																	
Object																																					
1.Graph				2.Values																																	
<div><div><div><div><div></div><div></div></div><div></div><div></div></div><div>Load 50%</div><div><div><div><div></div><div></div></div><div></div><div></div></div><div>Load 100%</div></div><div><div>Power Factor</div><div>1.0</div><div>0.9</div><div>0.8</div><div>0.7</div><div>0.6</div><div>0.5</div><div>0.4</div></div><div><div>50</div><div>100</div><div>150</div><div>200</div><div>250</div><div>300</div></div><div>Input Voltage [V]</div></div></div>				<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>85</td><td>0.993</td><td>0.996 ※1</td></tr><tr><td>100</td><td>0.990</td><td>0.994</td></tr><tr><td>115</td><td>0.986</td><td>0.992</td></tr><tr><td>200</td><td>0.955</td><td>0.979</td></tr><tr><td>230</td><td>0.936</td><td>0.970</td></tr><tr><td>264</td><td>0.917</td><td>0.959</td></tr><tr><td>280</td><td>0.908</td><td>0.943</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Input Voltage [V]	Power Factor		Load 50%	Load 100%	85	0.993	0.996 ※1	100	0.990	0.994	115	0.986	0.992	200	0.955	0.979	230	0.936	0.970	264	0.917	0.959	280	0.908	0.943	--	-	-	--	-	-
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Note: Slanted line shows the range of the rated input voltage.				※1:Load 80%																																	

- 5 -

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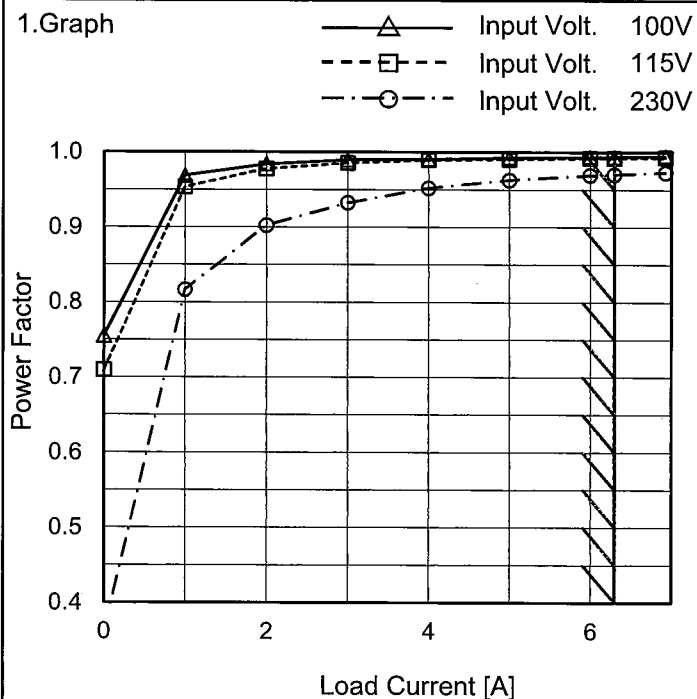
Model PJA300F-48

Item Power Factor (by Load Current)

Object

Temperature 25°C  
Testing Circuitry Figure A

1.Graph



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

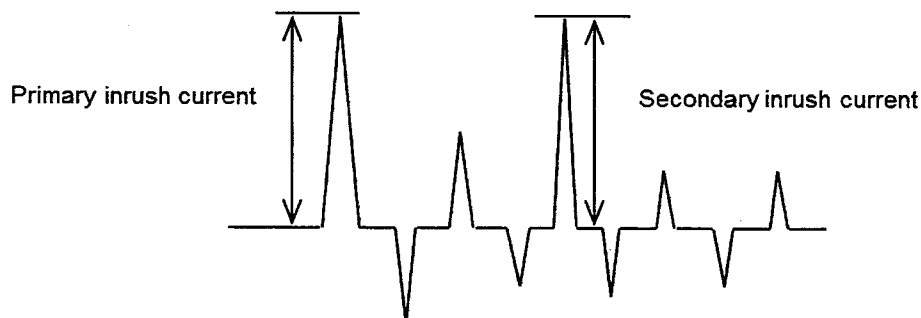
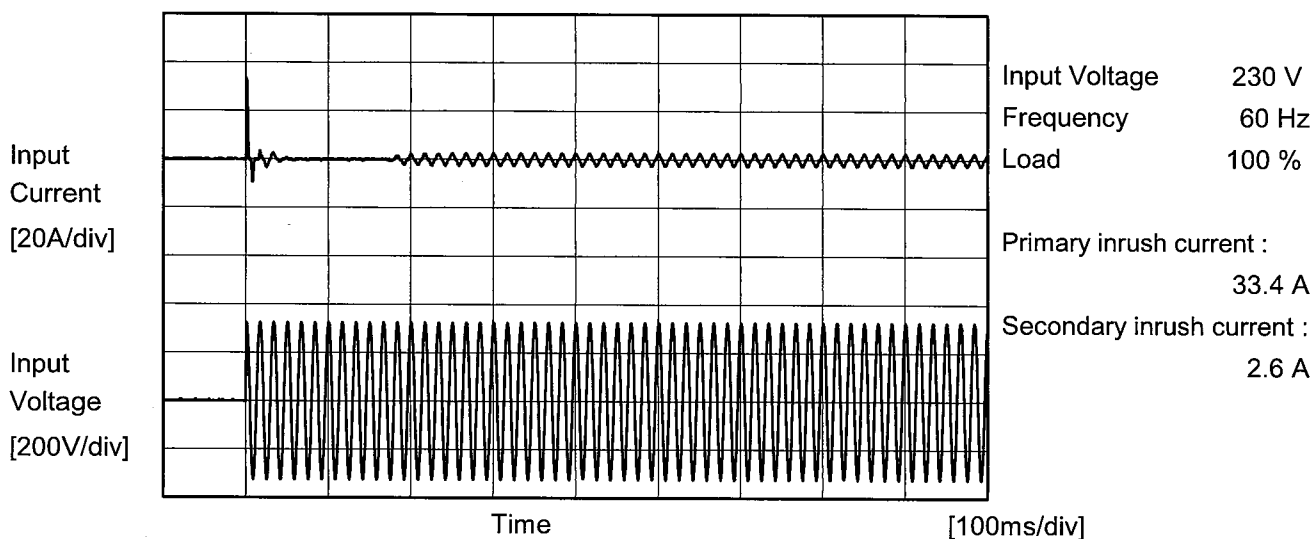
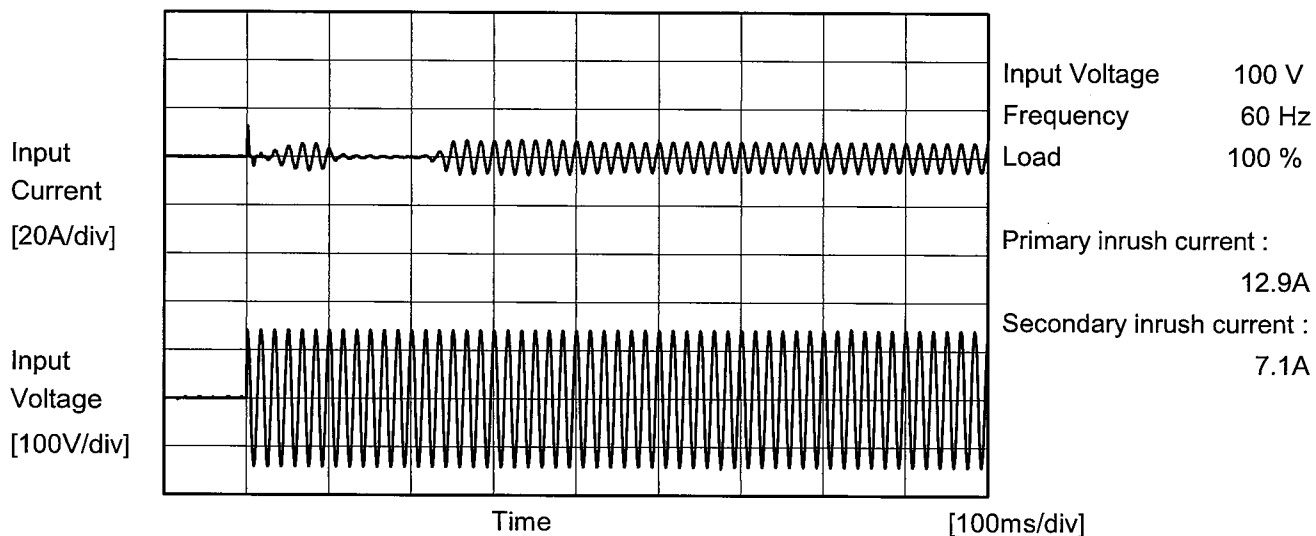
2.Values

Load Current [A]	Power Factor		
	Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]
0.00	0.755	0.710	0.362
1.00	0.969	0.954	0.816
2.00	0.984	0.978	0.902
3.00	0.990	0.985	0.932
4.00	0.991	0.990	0.952
5.00	0.993	0.991	0.963
6.00	0.994	0.992	0.970
6.30	0.994	0.992	0.971
6.93	0.995	0.993	0.973
--	-	-	-
--	-	-	-



# COSEL

Model	PJA300F-48		
Item	Inrush Current	Temperature	25°C
Object	_____	Testing Circuitry	Figure A



**COSEL**

<b>COSEL</b>			
Model	PJA300F-48	Temperature      25°C Testing Circuitry   Figure B	
Item	Leakage Current		
Object	_____		

## 1.Results

Standards	Testing Circuitry	Measuring Method	Input Volt.			Note
			100 [V]	115 [V]	240 [V]	
DEN-AN	Figure B-1	Both phases	0.13	0.15	0.33	Operation
		One of phases	0.24	0.27	0.60	Stand by
IEC62368-1	Figure B-2	Both phases	0.14	0.16	0.35	Operation
		One of phases	0.25	0.29	0.65	Stand by
	Figure B-3	Both phases	0.14	0.16	0.32	Operation
		One of phases	0.24	0.27	0.59	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		PJA300F-48	
Item		Line Regulation	
Object		+48V6.3A	

1.Graph

---

□

---

Load 50%

---

△

---

Load 100%

Output Voltage [V]

48.80

48.70

48.60

48.50

48.40

48.30

48.20

48.10

50

100

150

200

250

300

Input Voltage [V]

48.48

48.47

48.46

48.45

48.44

48.43

48.42

48.41

48.40

48.39

48.38

48.37

48.36

48.35

48.34

48.33

48.32

48.31

48.30

48.29

48.28

48.27

48.26

48.25

48.24

48.23

48.22

48.21

48.20

48.19

48.18

48.17

48.16

48.15

48.14

48.13

48.12

48.11

48.10

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

2.Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
85	48.458	48.474 ※1
100	48.461	48.474
115	48.464	48.475
200	48.464	48.472
230	48.470	48.475
264	48.474	48.477
280	48.477	48.480
--	-	-
--	-	-

※1:Load 80%



Model		PJA300F-48	
Item		Load Regulation	
Object		+48V6.3A	

1.Graph

—△—

Input Volt.

100V

---□---

Input Volt.

115V

-·-○-·-

Input Volt.

230V

Load Current [A]	Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]
0.00	48.487	48.492	48.507
1.00	48.473	48.477	48.490
2.00	48.469	48.472	48.484
3.00	48.468	48.471	48.483
4.00	48.467	48.469	48.482
5.00	48.466	48.468	48.481
6.00	48.465	48.467	48.479
6.30	48.465	48.467	48.479
6.93	48.464	48.466	48.479
--	-	-	-
--	-	-	-

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

2.Values

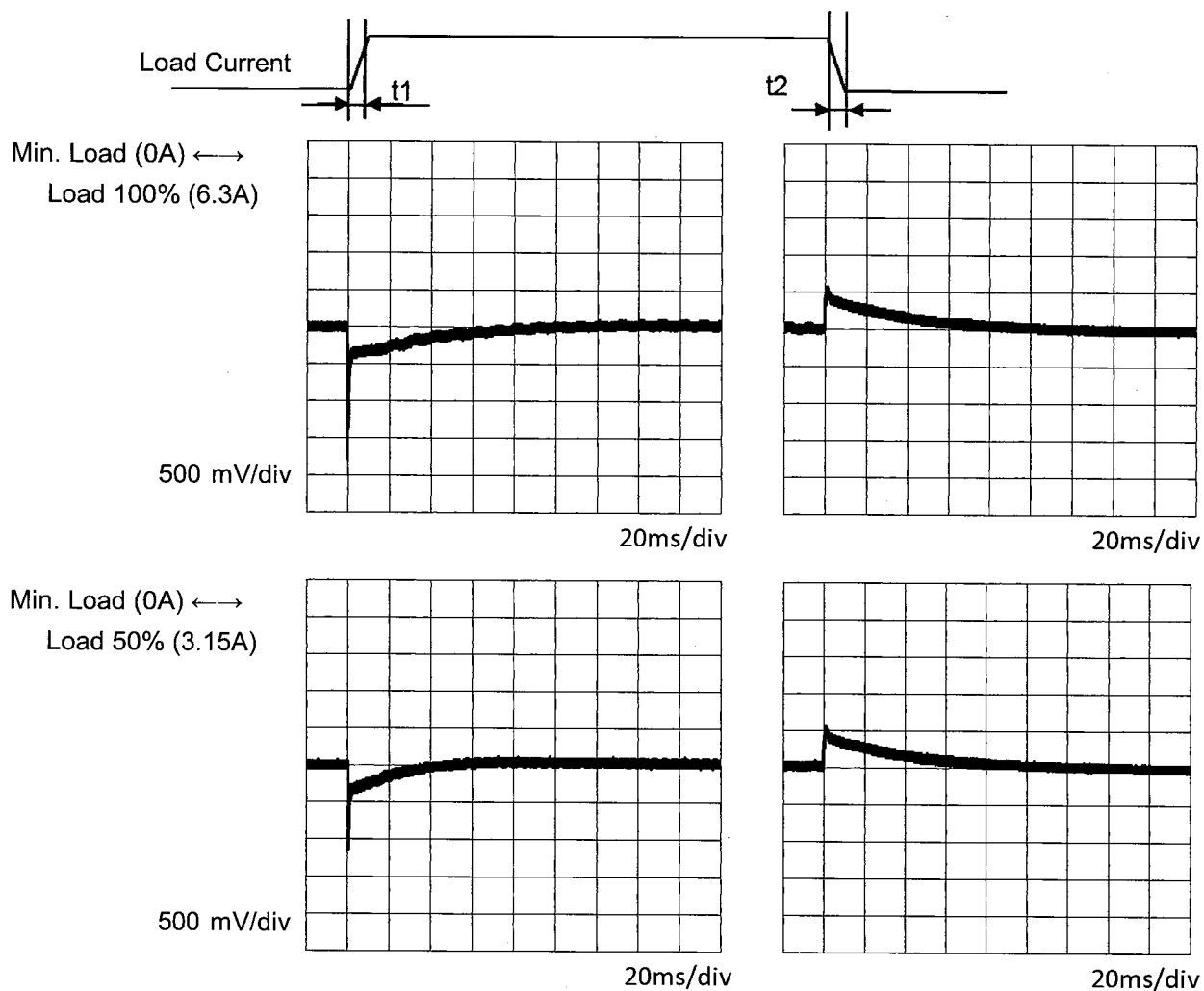
Load Current [A]	Output Voltage [V]		
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4.00	48.467	48.469	48.482
5.00	48.466	48.468	48.481
6.00	48.465	48.467	48.479
6.30	48.465	48.467	48.479
6.93	48.464	48.466	48.479
--	-	-	-
--	-	-	-

# COSEL

Model	PJA300F-48	Temperature Testing Circuitry	25° C Figure A
Item	Dynamic Load Response		
Object	+48V6.3A		

Input Volt. 100 V  
Cycle 1000 ms

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



**COSEL**

Model		PJA300F-48	
Item		Ripple Voltage (by Load Current)	
Object		+48V6.3A	

1.Graph

—△—

Input Volt. 100V

-·-○-·-

Input Volt. 230V

200

180

160

140

120

100

80

60

40

20

0

Ripple Voltage [mV]

0

2

4

6

Load Current [A]

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.

T1: Due to AC Input Line

T2: Due to Switching

Ripple [mVp-p]

T2

T1

Fig. Complex Ripple Wave Form

2.Values

Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 100 [V]	Input Volt. 230 [V]
0.00	10	10
1.00	15	15
2.00	20	20
3.00	25	25
4.00	25	25
5.00	30	30
6.00	35	35
6.30	35	35
6.93	40	40
--	-	-
--	-	-

**COSEL**

Model		PJA300F-48	
Item		Ripple-Noise	
Object		+48V6.3A	

1.Graph

△

Input Volt. 100V

○

Input Volt. 230V

200

180

160

140

120

100

80

60

40

20

0

0

2

4

6

Ripple-Noise [mV]

Load Current [A]

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.

T1

Due to AC Input Line

T2

Due to Switching

Ripple-Noise [mVp-p]

T1

T2

Fig. Complex Ripple Wave Form

2.Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 100 [V]	Input Volt. 230 [V]
0.00	15	15
1.00	20	20
2.00	25	25
3.00	30	30
4.00	30	30
5.00	35	35
6.00	40	40
6.30	40	40
6.93	45	45
--	-	-
--	-	-



Model		PJA300F-48	Testing Circuitry    Figure C																																						
Item		Ripple Voltage (by Ambient Temp.)																																							
Object		+48V6.3A																																							
1.Graph			2.Values																																						
<div><div><div><div><div>---□---</div><div>Input Volt. 100V</div></div><div><div>—△—</div><div>Input Volt. 230V</div></div></div><div><p>Ripple Voltage [mV]</p><p>Ambient Temperature [°C]</p><p>Load 100%</p></div></div></div>			<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>55</td><td>55</td></tr><tr><td>0</td><td>55</td><td>55</td></tr><tr><td>25</td><td>40</td><td>40</td></tr><tr><td>50</td><td>40</td><td>40</td></tr><tr><td>60</td><td>40</td><td>40</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	55	55	0	55	55	25	40	40	50	40	40	60	40	40	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
Ambient Temperature [°C]	Ripple Voltage [mV]																																								
	Input Volt. 100 [V]	Input Volt. 230 [V]																																							
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Measured by 20 MHz Oscilloscope. Note: Slanted line shows the range of the rated ambient temperature.																																									



**COSEL**

Model PJA300F-48

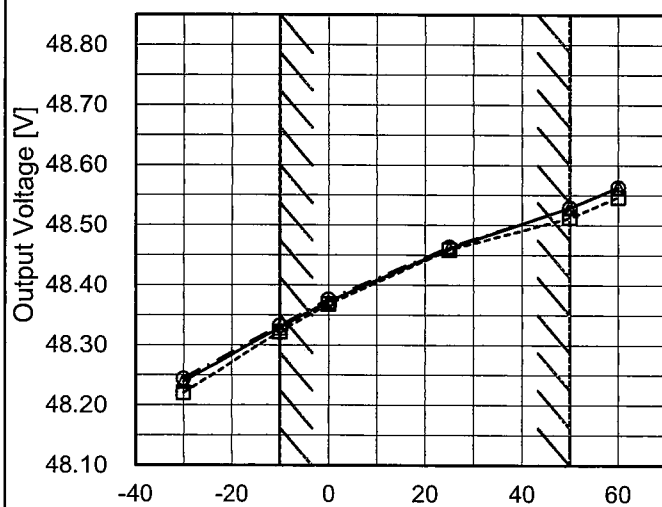
Item Ambient Temperature Drift

Object +48V6.3A

Testing Circuitry Figure A

1.Graph

—△— Input Volt. 100V  
 ---□--- Input Volt. 115V  
 -·-○-·- Input Volt. 230V



Ambient Temperature [°C]

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

2.Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]
-30	48.239	48.221	48.244
-10	48.328	48.322	48.332
0	48.372	48.368	48.376
25	48.461	48.459	48.463
50	48.529	48.513	48.529
60	48.563	48.547	48.563
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-



Model		PJA300F-48	Testing Circuitry Figure A
Item		Output Voltage Accuracy	
Object		+48V6.3A	

## 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 : 100 - 264V

Load Current : 0 - 6.3A

\* 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

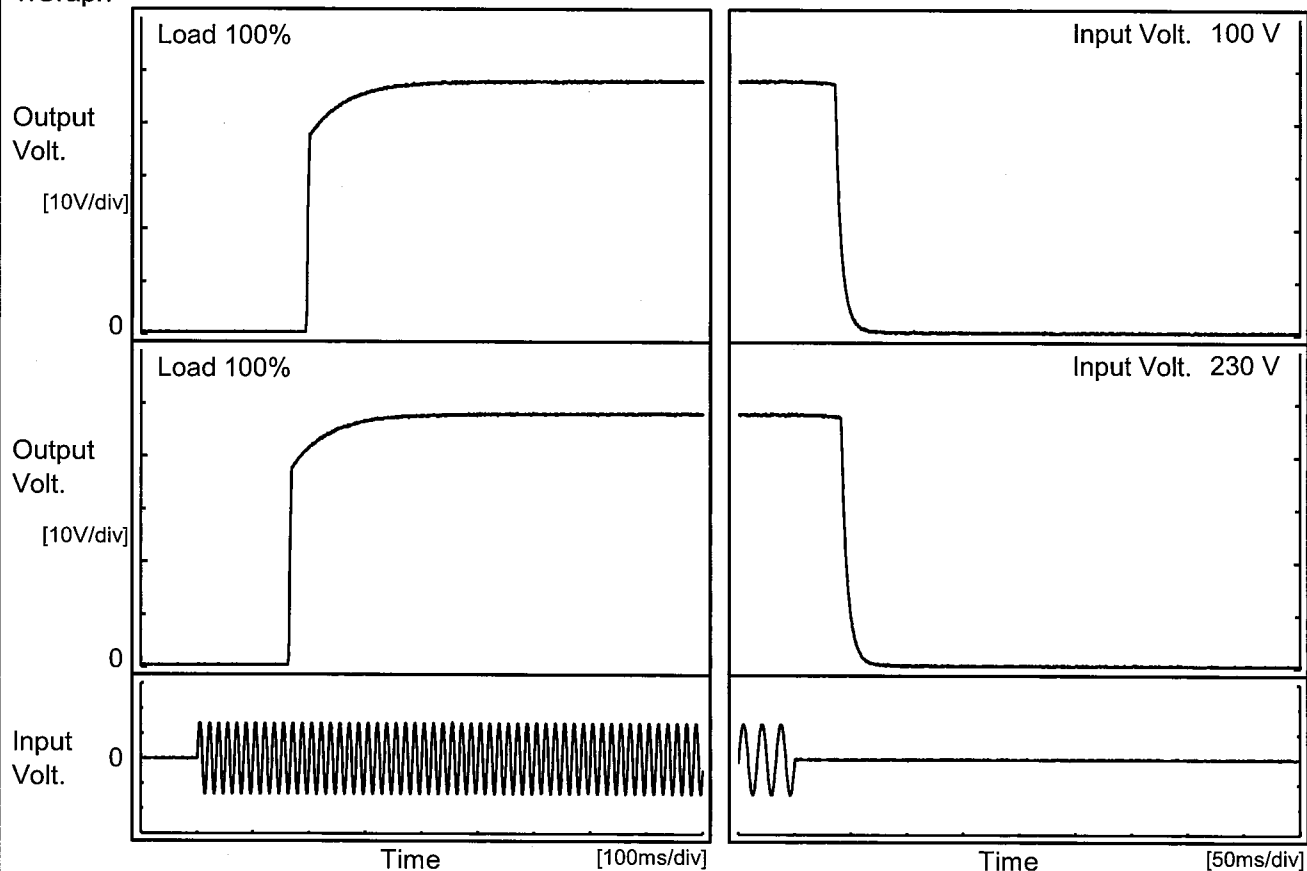
Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ratio [%]
Maximum Voltage	50	230	6.3	48.529	±104	±0.2
Minimum Voltage	-10	115	6.3	48.322		



# COSEL

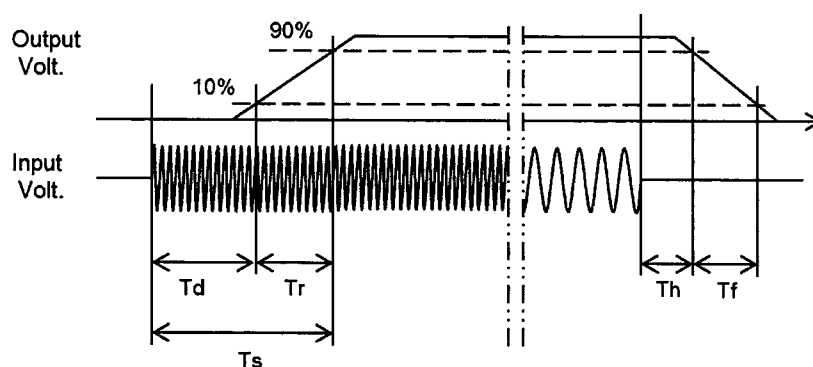
Model	PJA300F-48	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+48V6.3A		

## 1. Graph



## 2. Values

Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		195.5	65.0	257.5	36.8	12.5
230 V		164.5	60.0	224.5	42.3	12.5



# COSEL

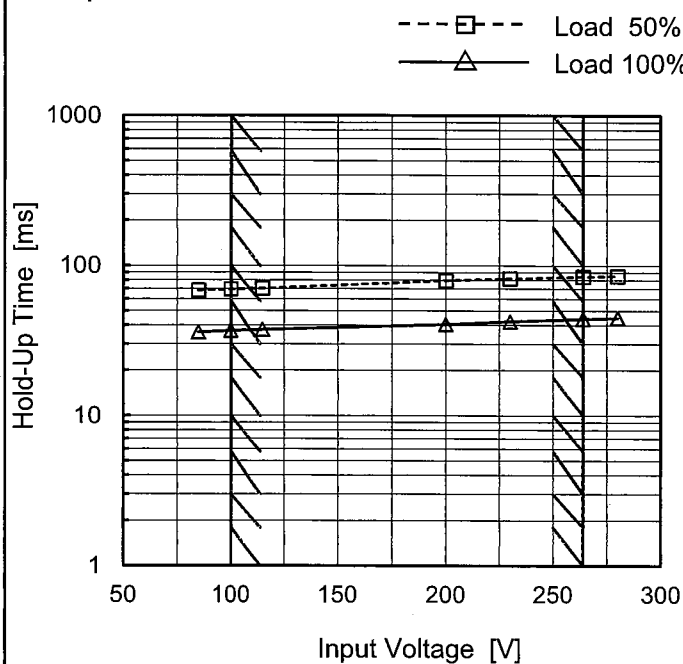
Model PJA300F-48

Item Hold-Up Time

Object +48V6.3A

Temperature 25°C  
Testing Circuitry Figure A

## 1.Graph



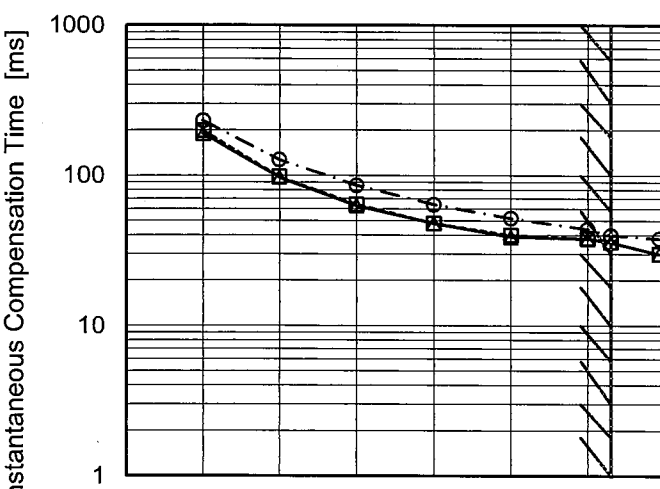
This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.  
Note: Slanted line shows the range of the rated input voltage.

## 2.Values

Input Voltage [V]	Hold-Up Time [ms]	
	Load 50%	Load 100%
85	68	36 ※1
100	70	37
115	71	37
200	80	41
230	82	42
264	85	44
280	85	45
--	-	-
--	-	-

※1: Load 80%



Model		PJA300F-48		Temperature Testing Circuitry	25°C Figure A																																																			
Item		Instantaneous Interruption Compensation																																																						
Object		+48V6.3A																																																						
1.Graph		<div><div><div>—△—</div><div>Input Volt.</div><div>100V</div></div><div><div>---□---</div><div>Input Volt.</div><div>115V</div></div><div><div>---○---</div><div>Input Volt.</div><div>230V</div></div></div>  <div>Instantaneous Compensation Time [ms]</div> <div>Load Current [A]</div>		2.Values																																																				
		<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. 115[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>1.00</td><td>189</td><td>198</td><td>231</td></tr><tr><td>2.00</td><td>97</td><td>98</td><td>127</td></tr><tr><td>3.00</td><td>63</td><td>64</td><td>86</td></tr><tr><td>4.00</td><td>48</td><td>48</td><td>64</td></tr><tr><td>5.00</td><td>39</td><td>40</td><td>52</td></tr><tr><td>6.00</td><td>38</td><td>38</td><td>44</td></tr><tr><td>6.30</td><td>36</td><td>36</td><td>40</td></tr><tr><td>6.93</td><td>30</td><td>30</td><td>38</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. 115[V]	Input Volt. 230[V]	0.00	-	-	-	1.00	189	198	231	2.00	97	98	127	3.00	63	64	86	4.00	48	48	64	5.00	39	40	52	6.00	38	38	44	6.30	36	36	40	6.93	30	30	38	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																							
	Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]																																																					
0.00	-	-	-																																																					
1.00	189	198	231																																																					
2.00	97	98	127																																																					
3.00	63	64	86																																																					
4.00	48	48	64																																																					
5.00	39	40	52																																																					
6.00	38	38	44																																																					
6.30	36	36	40																																																					
6.93	30	30	38																																																					
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Note: Slanted line shows the range of the rated load current.																																																								



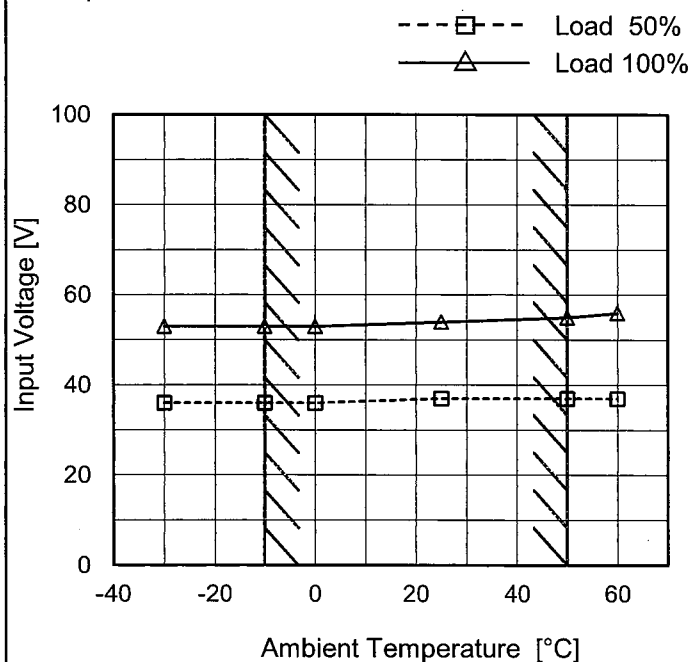
Model PJA300F-48

Item Minimum Input Voltage  
for Regulated Output Voltage

Object +48V6.3A

Testing Circuitry Figure A

### 1. Graph



### 2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-30	36	53
-10	36	53
0	36	53
25	37	54
50	37	55
60	37	56
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-



Model		PJA300F-48	
Item		Overcurrent Protection	
Object		+48V6.3A	

1.Graph

Input Volt. 100V

Input Volt. 230V

Output Voltage [V]

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**COSEL**

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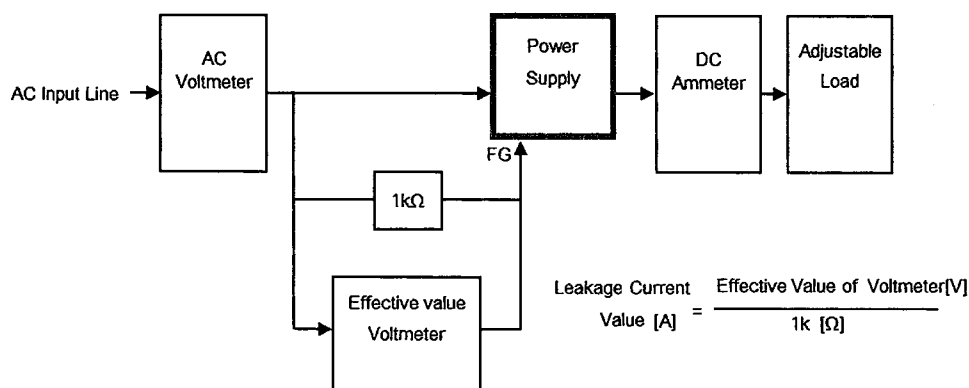
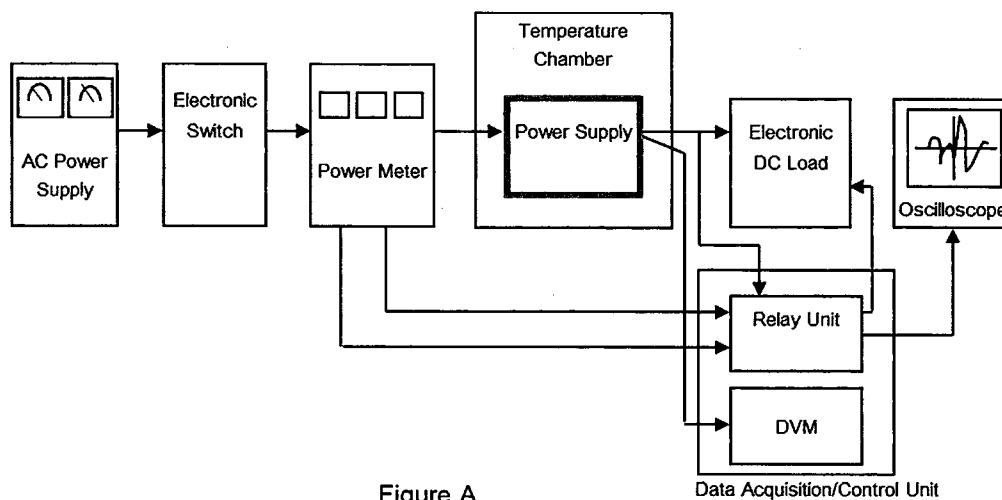


Figure B-1 ( DEN-AN )

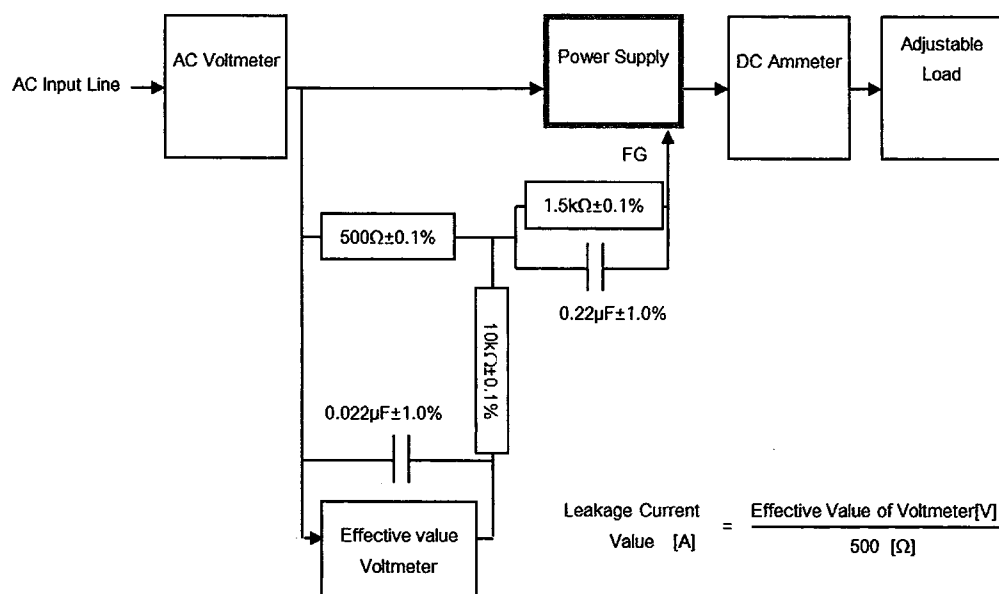


Figure B-2 ( IEC62368-1 refer to IEC60990 Fig.4 )

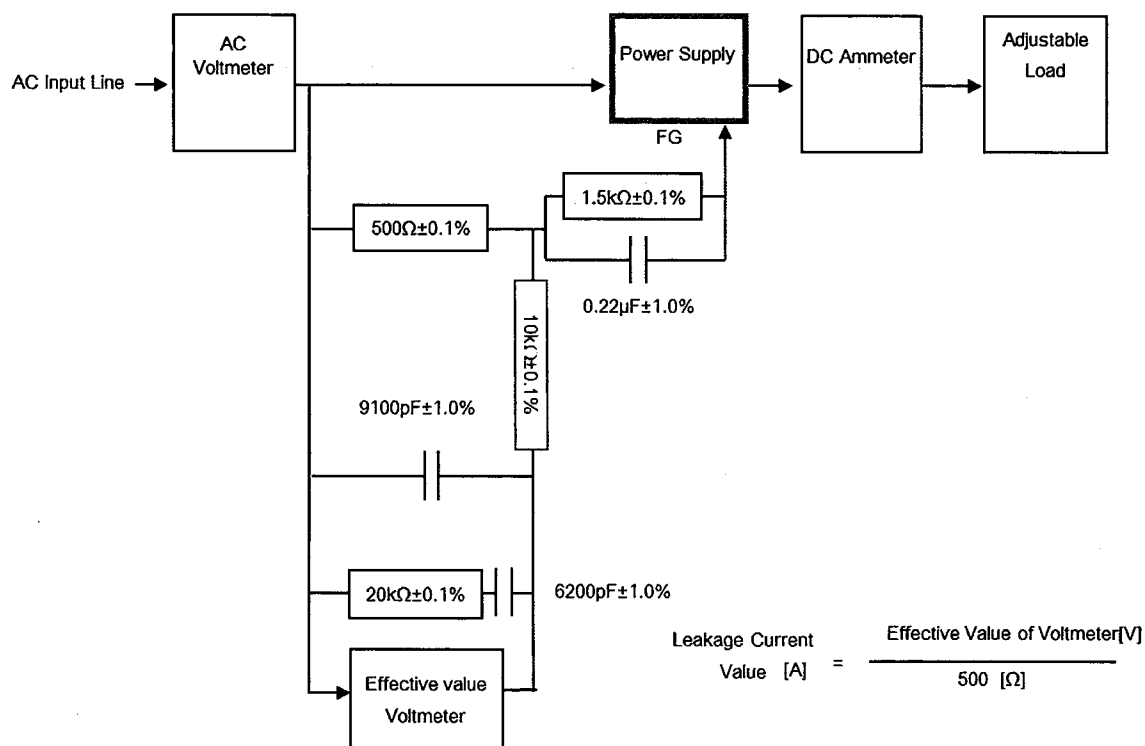


Figure B-3 ( IEC62368-1 refer to IEC60990 Fig.5)

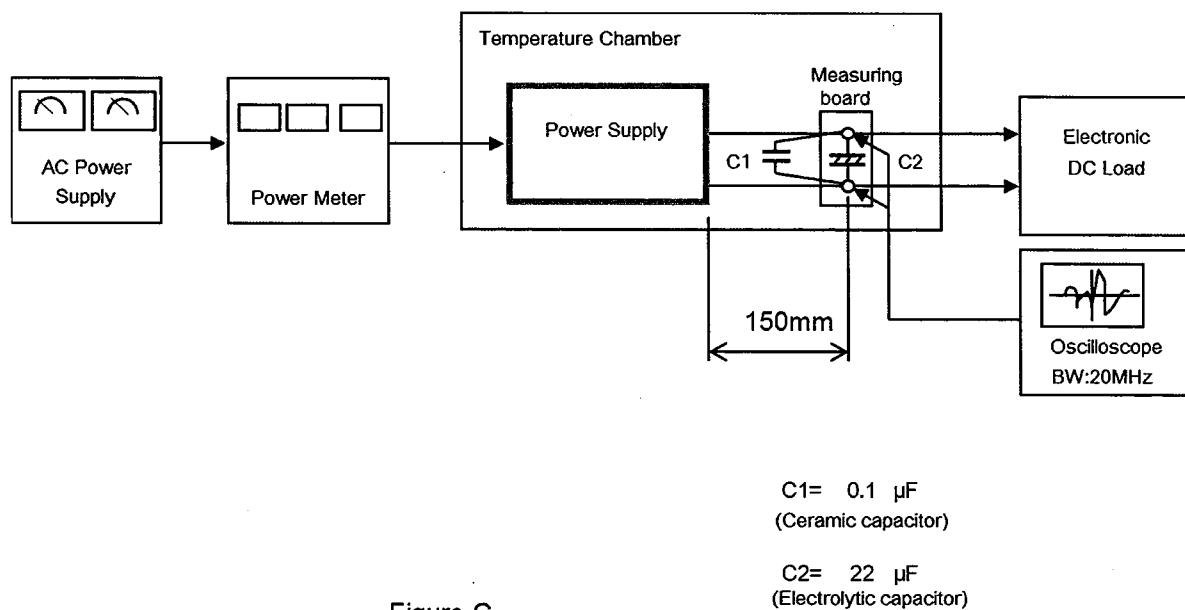


Figure C