

TEST DATA OF PJA100F-15

Regulated DC Power Supply
August 30, 2016

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COSEL CO.,LTD.

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Model		PJA100F-15	Temperature 25°C																																																				
Item		Input Current (by Load Current)	Testing Circuitry Figure A																																																				
Object																																																							
1.Graph		<div><div>—△—</div>Input Volt. 100V</div> <div><div>---□---</div>Input Volt. 115V</div> <div><div>-○-</div>Input Volt. 230V</div> <p>Input Current [A]</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p>	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>0.022</td><td>0.022</td><td>0.030</td></tr><tr><td>1.20</td><td>0.246</td><td>0.221</td><td>0.147</td></tr><tr><td>2.40</td><td>0.461</td><td>0.407</td><td>0.241</td></tr><tr><td>3.60</td><td>0.670</td><td>0.586</td><td>0.331</td></tr><tr><td>4.80</td><td>0.881</td><td>0.766</td><td>0.420</td></tr><tr><td>6.00</td><td>1.101</td><td>0.952</td><td>0.509</td></tr><tr><td>6.70</td><td>1.233</td><td>1.063</td><td>0.561</td></tr><tr><td>7.37</td><td>-</td><td>1.171</td><td>0.612</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>		Load Current [A]	Input Current [A]			Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]	0.00	0.022	0.022	0.030	1.20	0.246	0.221	0.147	2.40	0.461	0.407	0.241	3.60	0.670	0.586	0.331	4.80	0.881	0.766	0.420	6.00	1.101	0.952	0.509	6.70	1.233	1.063	0.561	7.37	-	1.171	0.612	--	-	-	-	--	-	-	-	--	-	-	-
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2.40	83.3	83.9	84.4																																																			
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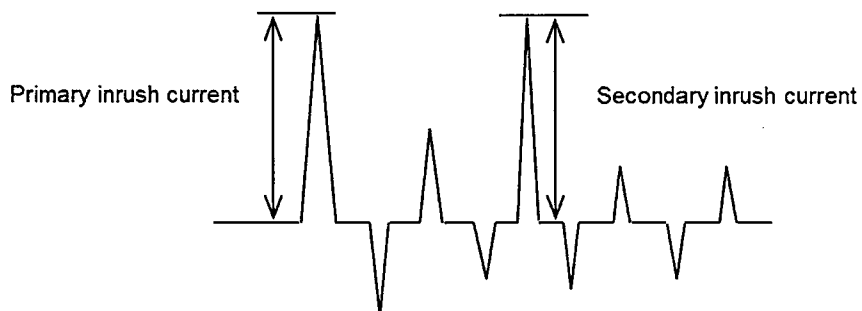
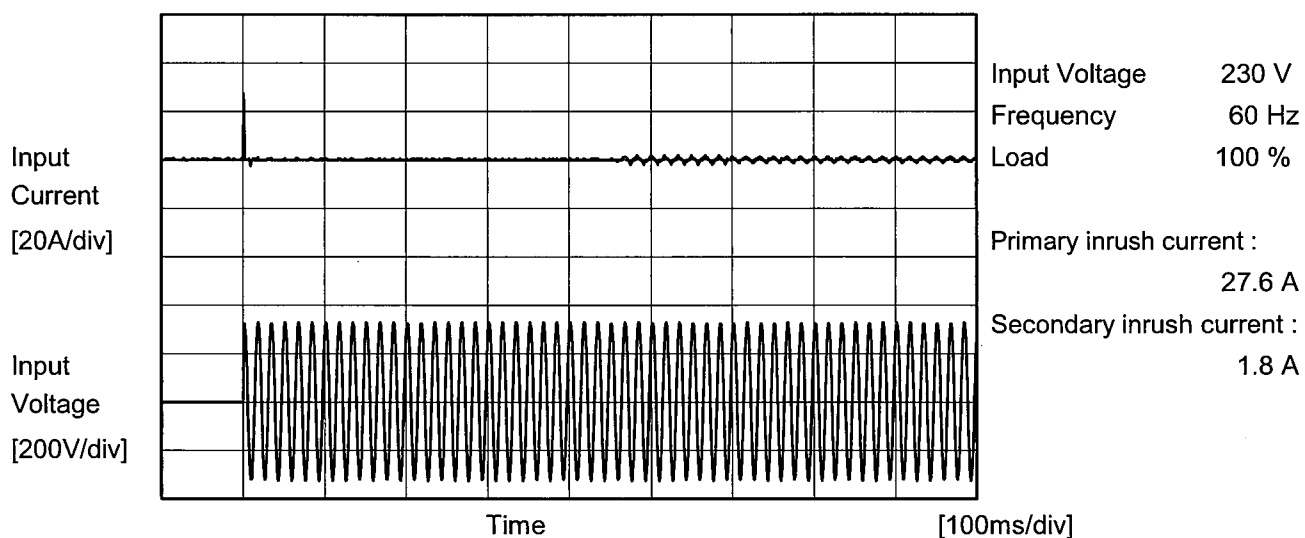
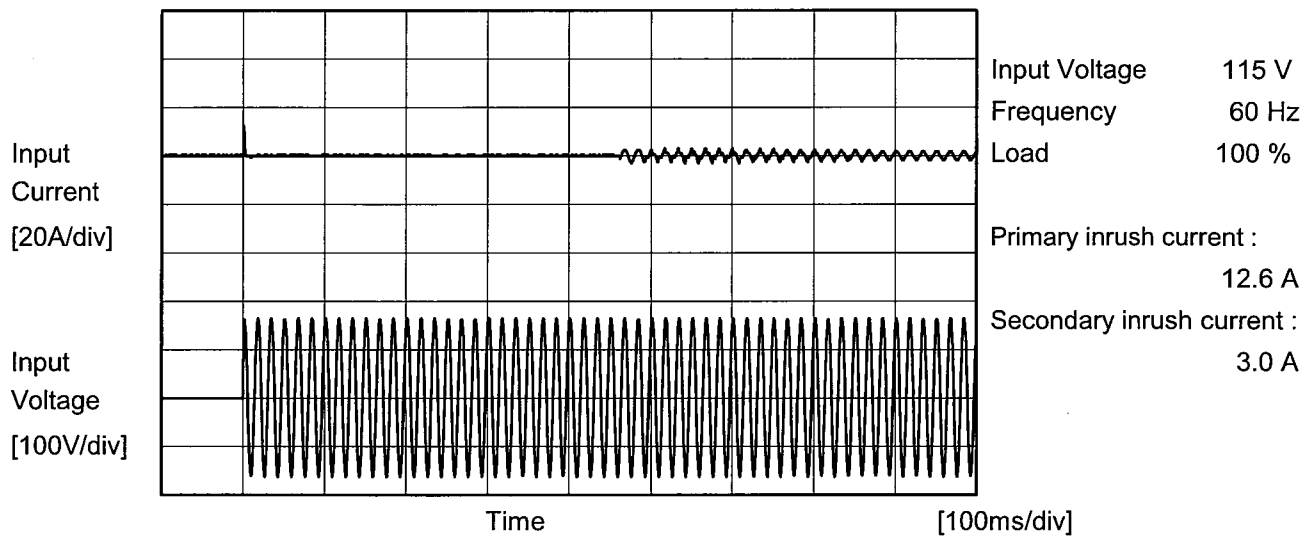
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Model	PJA100F-15	Temperature	25°C
Item	Inrush Current	Testing Circuitry	Figure A
Object	_____		



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		Temperature 25°C Testing Circuitry Figure B
Model	PJA100F-15	
Item	Leakage Current	
Object	_____	

1.Results

[mA]

Standards		Input Volt.			Note
		100 [V]	115 [V]	240 [V]	
DEN-AN	Both phases	0.19	0.21	0.42	Operation
	One of phases	0.28	0.32	0.71	Stand by
IEC60950-1	Both phases	0.14	0.16	0.43	Operation
	One of phases	0.26	0.31	0.72	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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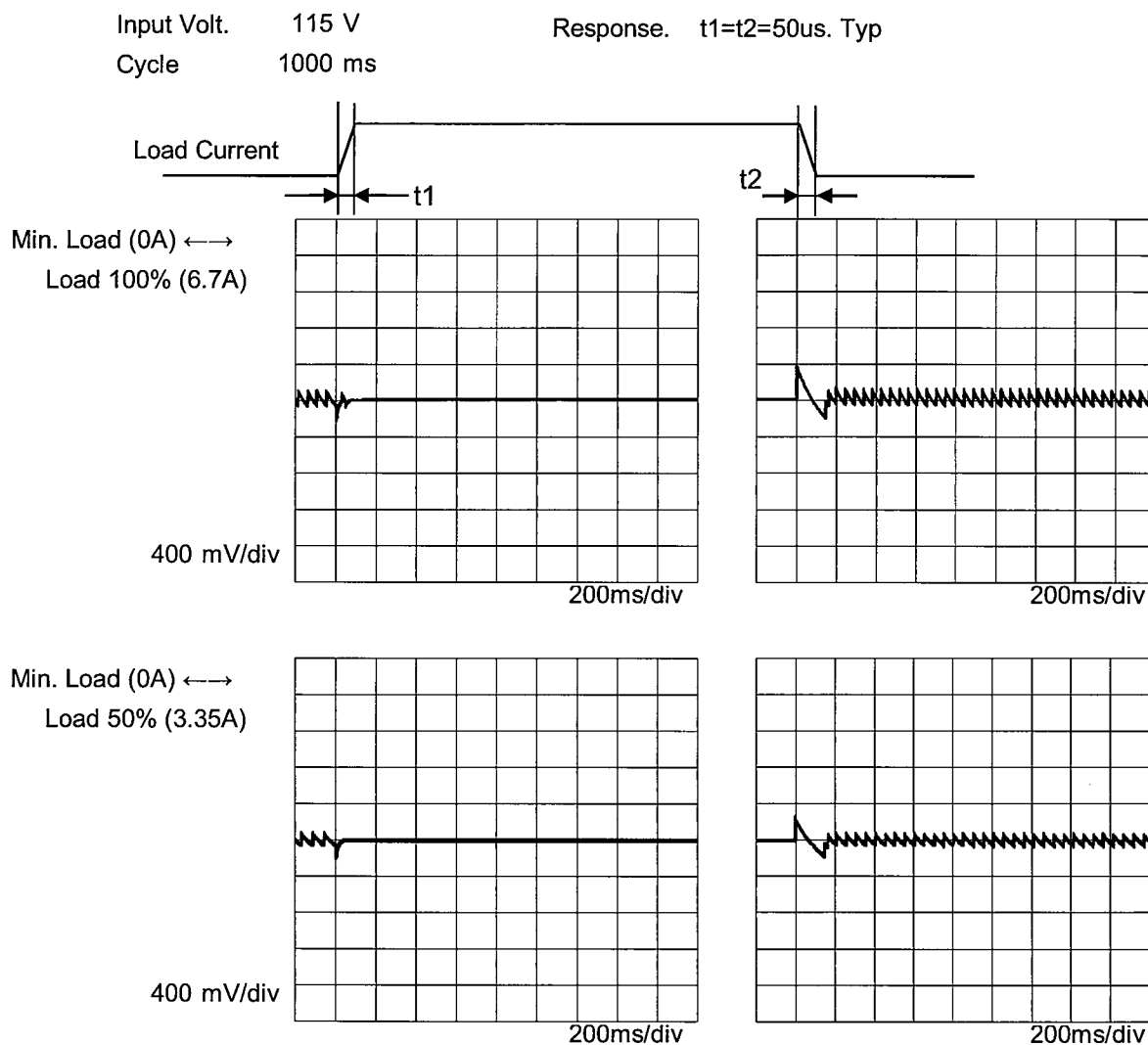
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Model	PJA100F-15	Temperature	25° C
Item	Dynamic Load Response	Testing Circuitry	Figure A
Object	+15V6.7A		



COSEL

Model		PJA100F-15																																																															
Item		Ripple Voltage (by Load Current)																																																															
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COSEL

Model		PJA100F-15	
Item		Ripple-Noise	
Object		+15V6.7A	

1.Graph

—△—

Input Volt. 115V

---○---

Input Volt. 230V

Load Current [A]	115V [mV]	230V [mV]
0.00	165	165
1.20	15	15
2.40	15	15
3.60	15	15
4.80	15	15
6.00	15	15
6.70	15	15
7.37	15	15
--	-	-
--	-	-
--	-	-

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]

T2

T1

Fig. Complex Ripple Wave Form

2.Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 115 [V]	Input Volt. 230 [V]
0.00	165	165
1.20	15	15
2.40	15	15
3.60	15	15
4.80	15	15
6.00	15	15
6.70	15	15
7.37	15	15
--	-	-
--	-	-
--	-	-

1. Graph

---□--- Input Volt. 115V
—△— Input Volt. 230V

The graph plots Ripple Voltage [mV] on the Y-axis (0 to 100) against Ambient Temperature [°C] on the X-axis (-40 to 60). Two data series are shown: Input Volt. 115V (dashed line with square markers) and Input Volt. 230V (solid line with triangle markers). The ripple voltage decreases as temperature increases, reaching a minimum around 25°C. A slanted line indicates the range of rated ambient temperature.

Ambient Temperature [°C]	Ripple Voltage [mV] (115V)	Ripple Voltage [mV] (230V)
-20	55	
-10	40	
0	30	
25	10	
40	15	

Load 100%

Measured by 20 MHz Oscilloscope.

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

2.Values

[illegible]

Model		PJA100F-15	
Item		Ambient Temperature Drift	
Object		+15V6.7A	
1.Graph		2.Values	

—△—

Input Volt. 100V

100V

---□---

Input Volt. 115V

115V

---○---

Input Volt. 230V

230V

Output Voltage [V]



Model		PJA100F-15	Testing Circuitry Figure A
Item		Output Voltage Accuracy	
Object		+15V6.7A	

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 - 40°C

Input Voltage : 115 - 264V

Load Current : 2.01 - 6.7A

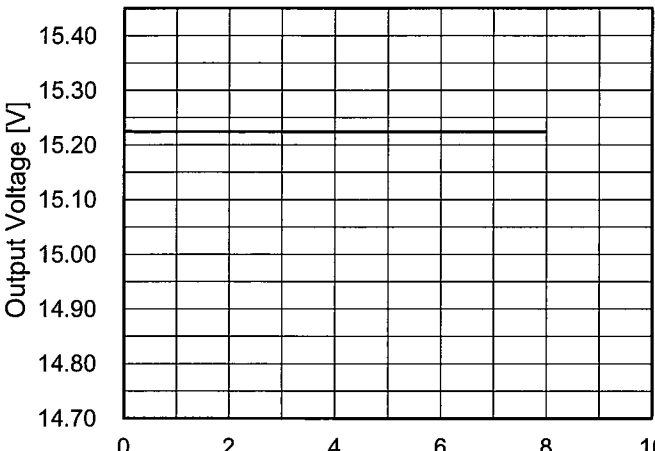
* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

* 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]	Ratio [%]
Maximum Voltage	30	115	2.4	15.287	±37	±0.2
Minimum Voltage	-10	115	6.7	15.213		

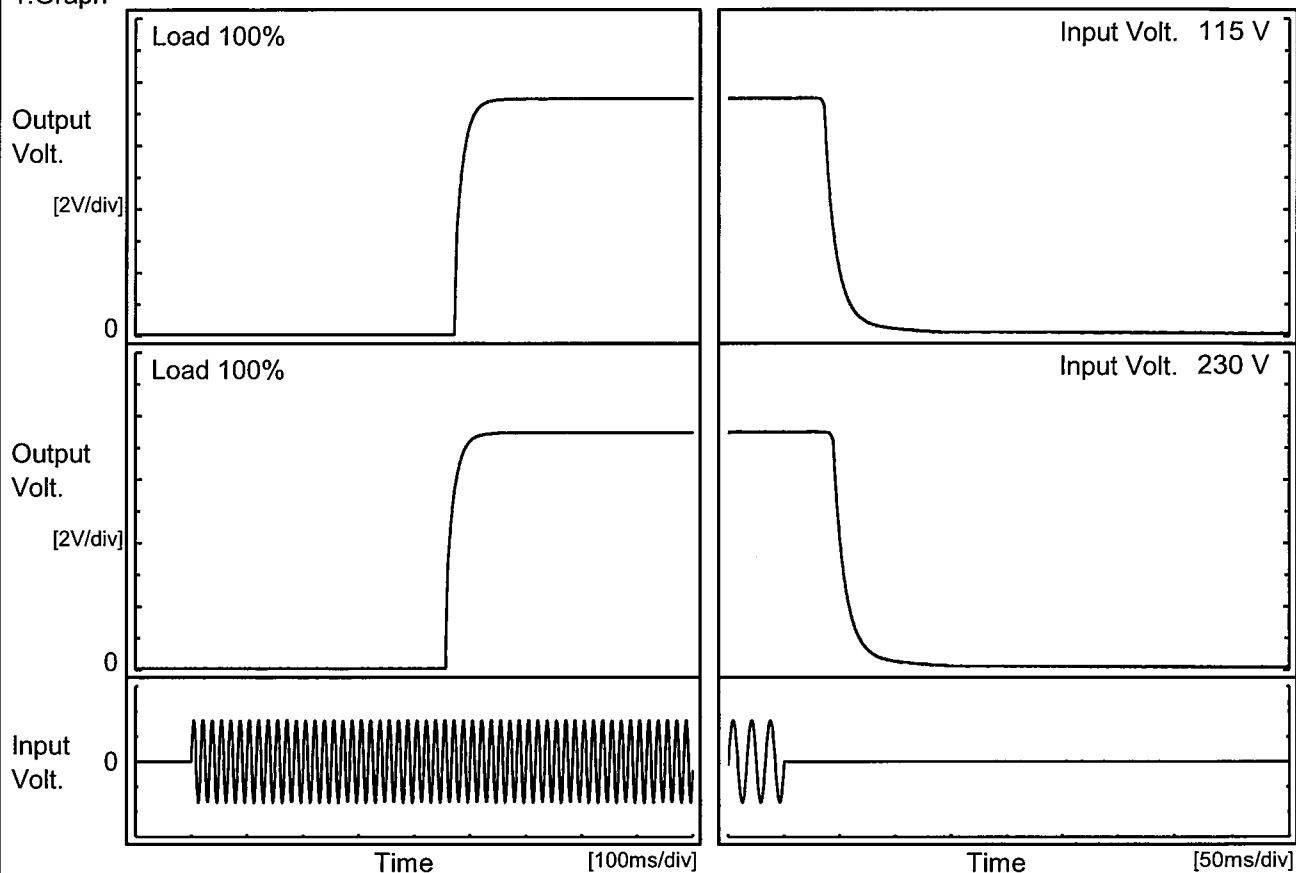
COSEL

Model	PJA100F-15																								
Item	Time Lapse Drift	Temperature	25°C																						
Object	+15V6.7A	Testing Circuitry	Figure A																						
1.Graph		2.Values																							
<div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 230V</p><p>Load 100%</p></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>15.225</td></tr><tr><td>0.5</td><td>15.224</td></tr><tr><td>1.0</td><td>15.224</td></tr><tr><td>2.0</td><td>15.224</td></tr><tr><td>3.0</td><td>15.224</td></tr><tr><td>4.0</td><td>15.224</td></tr><tr><td>5.0</td><td>15.224</td></tr><tr><td>6.0</td><td>15.224</td></tr><tr><td>7.0</td><td>15.224</td></tr><tr><td>8.0</td><td>15.224</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	15.225	0.5	15.224	1.0	15.224	2.0	15.224	3.0	15.224	4.0	15.224	5.0	15.224	6.0	15.224	7.0	15.224	8.0	15.224
Time since start [H]	Output Voltage [V]																								
0.0	15.225																								
0.5	15.224																								
1.0	15.224																								
2.0	15.224																								
3.0	15.224																								
4.0	15.224																								
5.0	15.224																								
6.0	15.224																								
7.0	15.224																								
8.0	15.224																								
* The characteristic of AC115V is equal.																									

COSEL

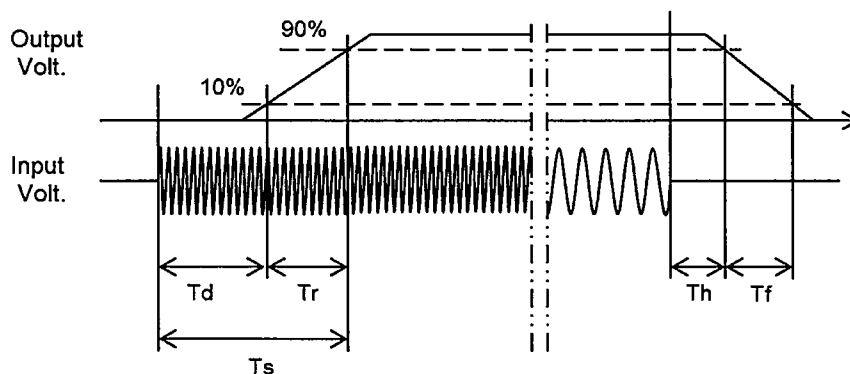
Model	PJA100F-15	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+15V6.7A		

1.Graph



2.Values

Input Volt. \ Time	Td	Tr	Ts	Th	Tf
115 V	473.5	30.0	503.5	36.8	26.8
230 V	457.5	30.0	487.5	45.0	26.8



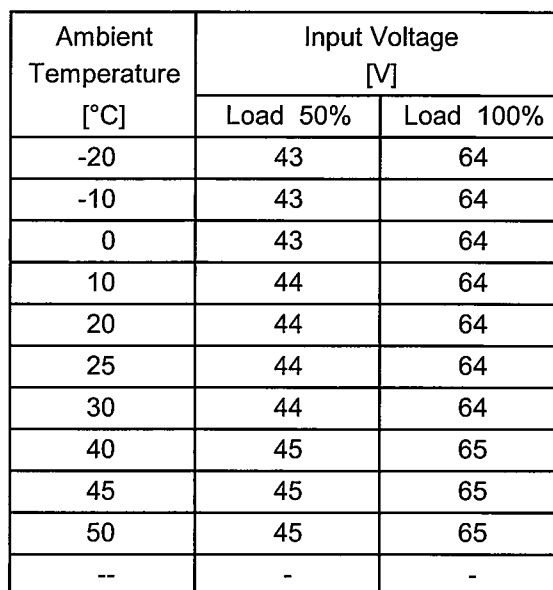
COSEL

Model		PJA100F-15	Temperature Testing Circuitry	25°C Figure A																																
Item		Hold-Up Time																																		
Object		+15V6.7A																																		
1.Graph			2.Values																																	
<div><div><div><div><div></div><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>Load 100%</div></div> <div><div>Hold-Up Time [ms]</div><div>1000</div><div>100</div><div>10</div><div>1</div><div>50</div><div>100</div><div>150</div><div>200</div><div>250</div><div>300</div><div>Input Voltage [V]</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>85</td><td>72</td><td>45 ※1</td></tr><tr><td>100</td><td>72</td><td>39 ※2</td></tr><tr><td>115</td><td>72</td><td>33</td></tr><tr><td>200</td><td>76</td><td>33</td></tr><tr><td>230</td><td>89</td><td>41</td></tr><tr><td>264</td><td>92</td><td>42</td></tr><tr><td>280</td><td>105</td><td>48</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	85	72	45 ※1	100	72	39 ※2	115	72	33	200	76	33	230	89	41	264	92	42	280	105	48	--	-	-	--	-	-
Input Voltage [V]	Hold-Up Time [ms]																																			
	Load 50%	Load 100%																																		
85	72	45 ※1																																		
100	72	39 ※2																																		
115	72	33																																		
200	76	33																																		
230	89	41																																		
264	92	42																																		
280	105	48																																		
--	-	-																																		
--	-	-																																		
<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>			※1:Load 80% ※2:Load 90%																																	

Model		PJA100F-15		Temperature 25°C																																																				
Item		Instantaneous Interruption Compensation		Testing Circuitry Figure A																																																				
Object		+15V6.7A																																																						
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><div>Instantaneous Compensation Time [ms]</div><div>Load Current [A]</div></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>1.20</td><td>200</td><td>200</td><td>247</td></tr><tr><td>2.40</td><td>102</td><td>102</td><td>126</td></tr><tr><td>3.60</td><td>68</td><td>69</td><td>84</td></tr><tr><td>4.80</td><td>49</td><td>49</td><td>63</td></tr><tr><td>6.00</td><td>39</td><td>39</td><td>49</td></tr><tr><td>6.70</td><td>31</td><td>31</td><td>42</td></tr><tr><td>7.37</td><td>-</td><td>27</td><td>35</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]	Time [ms]			Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]	0.00	-	-	-	1.20	200	200	247	2.40	102	102	126	3.60	68	69	84	4.80	49	49	63	6.00	39	39	49	6.70	31	31	42	7.37	-	27	35	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																							
	Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]																																																					
0.00	-	-	-																																																					
1.20	200	200	247																																																					
2.40	102	102	126																																																					
3.60	68	69	84																																																					
4.80	49	49	63																																																					
6.00	39	39	49																																																					
6.70	31	31	42																																																					
7.37	-	27	35																																																					
--	-	-	-																																																					
--	-	-	-																																																					
--	-	-	-																																																					

Testing Circuitry Figure A

2.Values



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



Model		PJA100F-15	Temperature Testing Circuitry	25°C Figure A																																									
Item		Overcurrent Protection																																											
Object		+15V6.7A																																											
1.Graph			2.Values																																										
<div><div><div></div><div>Input Volt. 115V</div></div><div><div></div><div>Input Volt. 230V</div></div></div> <p>Note: Slanted line shows the range of the rated load current.</p> <p>Intermittent operation occurs when the output voltage is from 4.8V to 0V.</p>			<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="2">Load Current [A]</th></tr><tr><th>Input Volt. 115[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>14.25</td><td>8.20</td><td>8.40</td></tr><tr><td>13.50</td><td>8.31</td><td>8.48</td></tr><tr><td>12.00</td><td>8.52</td><td>8.70</td></tr><tr><td>10.50</td><td>8.75</td><td>8.92</td></tr><tr><td>9.00</td><td>9.00</td><td>9.15</td></tr><tr><td>7.50</td><td>9.23</td><td>9.40</td></tr><tr><td>6.00</td><td>9.49</td><td>9.62</td></tr><tr><td>4.50</td><td>9.71</td><td>9.83</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. 115[V]	Input Volt. 230[V]	14.25	8.20	8.40	13.50	8.31	8.48	12.00	8.52	8.70	10.50	8.75	8.92	9.00	9.00	9.15	7.50	9.23	9.40	6.00	9.49	9.62	4.50	9.71	9.83	--	-	-	--	-	-	--	-	-	--	-	-
Output Voltage [V]	Load Current [A]																																												
	Input Volt. 115[V]	Input Volt. 230[V]																																											
14.25	8.20	8.40																																											
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9.00	9.00	9.15																																											
7.50	9.23	9.40																																											
6.00	9.49	9.62																																											
4.50	9.71	9.83																																											
--	-	-																																											
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--	-	-																																											
--	-	-																																											

Model		PJA100F-15
Item		Overvoltage Protection
Object		+15V6.7A

1.Graph

—△—

Input Volt. 115V

---□---

Input Volt. 230V

Operating Point [V]

Ambient Temperature [°C]

Load 0%

2.Values

Ambient Temperature [°C]	Operating Point [V]	
	Input Volt. 115[V]	Input Volt. 230[V]
-20	18.74	18.74
-10	18.70	18.70
0	18.64	18.64
10	18.64	18.64
20	18.64	18.64
25	18.64	18.64
30	18.64	18.64
40	18.64	18.64
45	18.64	18.64
50	18.64	18.64
--	-	-

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

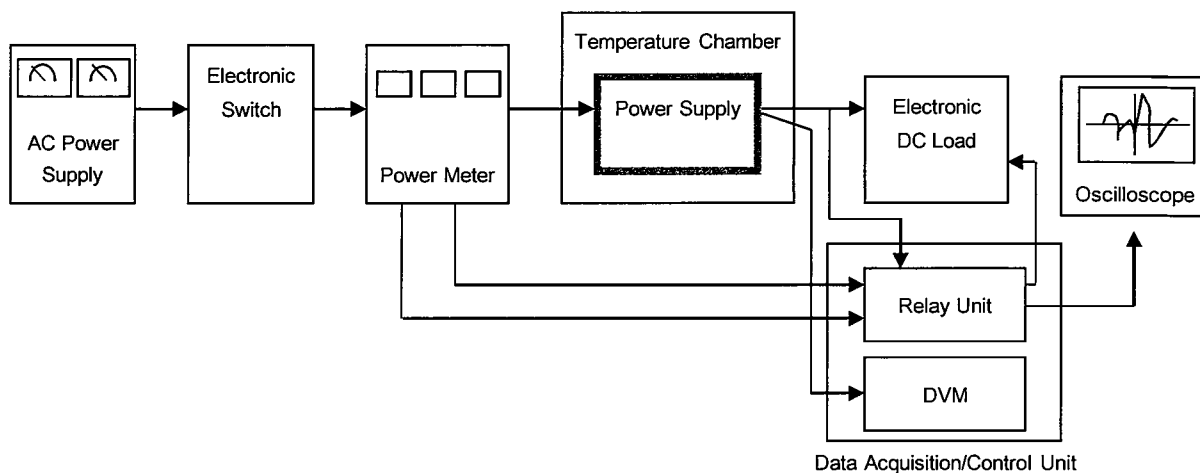


Figure A

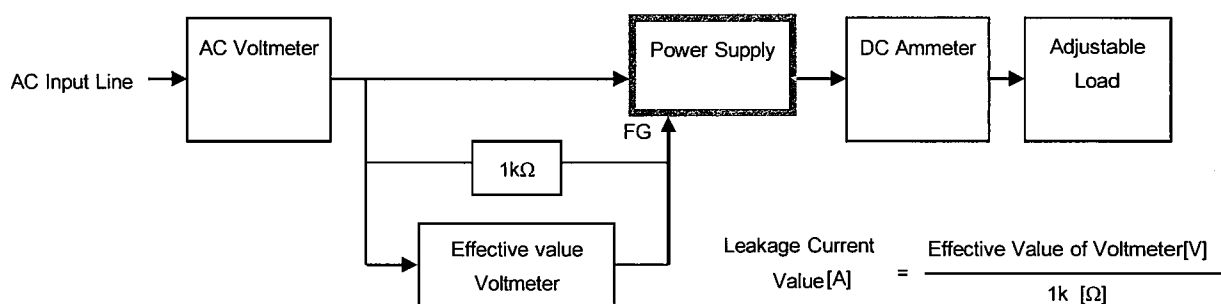


Figure B (DEN-AN)

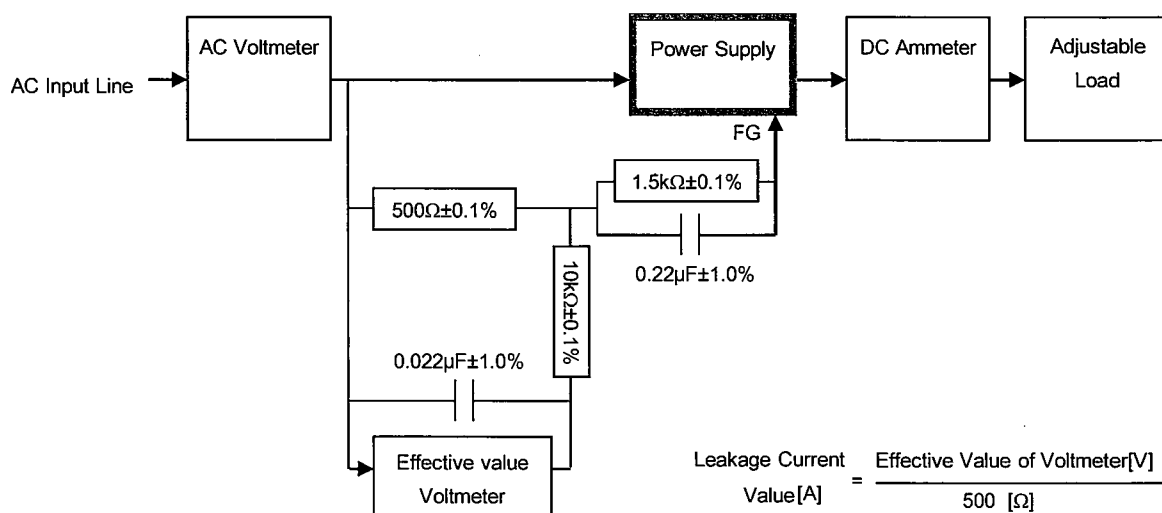


Figure B (IEC60950-1)

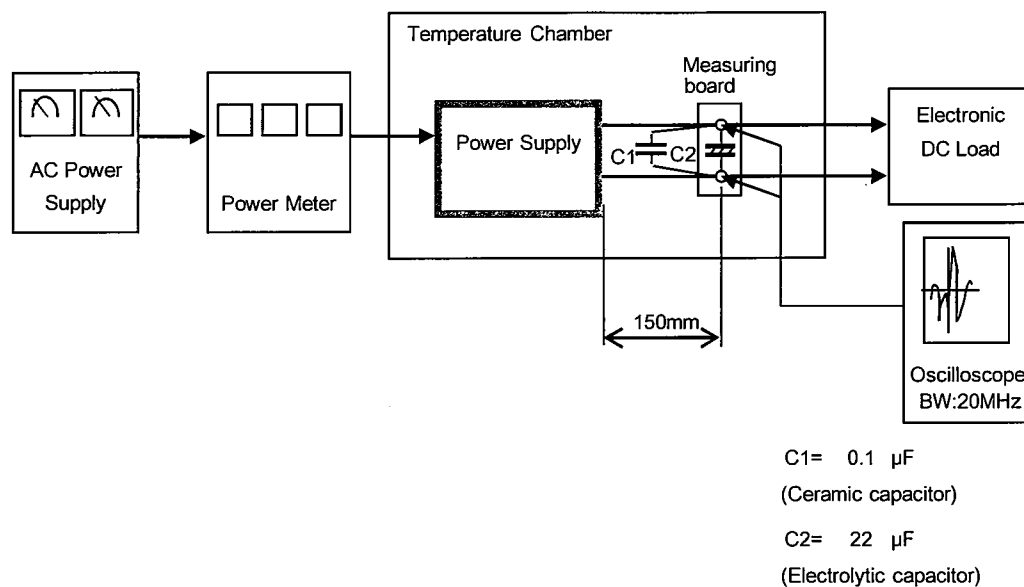


Figure C