

TEST DATA OF PJA50F-5

Regulated DC Power Supply
May 26, 2026

Approved by : Yoshiaki Shimizu
Design Manager

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Design Engineer

COSEL CO.,LTD.

CONTENTS

1.Input Current (by Load Current)	1
2.Efficiency (by Load Current)	2
3.Power Factor (by Load Current)	3
4.Inrush Current	4
5.Leakage Current	5
6.Line Regulation	6
7.Load Regulation	7
8.Ripple-Noise	7
9.Dynamic Load Response	8
10.Rise and Fall Time	9
11.Hold-Up Time	10
12.Instantaneous Interruption Compensation	11
13.Overcurrent Protection	12
14.Ambient Temperature Drift	13
15.Minimum Input Voltage for Regulated Output Voltage	13
16.Overvoltage Protection	13
17.Figure of Testing Circuitry	14

(Final Page 15)

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Model		PJA50F-5		Temperature 25°C																																																		
Item		Input Current (by Load Current)		Testing Circuitry Figure A																																																		
Object		_____																																																				
1.Graph		—△— Input Volt. 100V ---□--- Input Volt. 115V ---○--- Input Volt. 230V		2.Values																																																		
Input Current [A] Load Current [A]		<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>0.0</td><td>0.029</td><td>0.033</td><td>0.063</td></tr><tr><td>2.0</td><td>0.259</td><td>0.237</td><td>0.163</td></tr><tr><td>4.0</td><td>0.465</td><td>0.423</td><td>0.272</td></tr><tr><td>6.0</td><td>0.669</td><td>0.605</td><td>0.384</td></tr><tr><td>8.0</td><td>0.880</td><td>0.789</td><td>0.488</td></tr><tr><td>8.8</td><td>0.971</td><td>0.869</td><td>0.531</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></table>		Load Current [A]	Input Current [A]			Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]	0.0	0.029	0.033	0.063	2.0	0.259	0.237	0.163	4.0	0.465	0.423	0.272	6.0	0.669	0.605	0.384	8.0	0.880	0.789	0.488	8.8	0.971	0.869	0.531	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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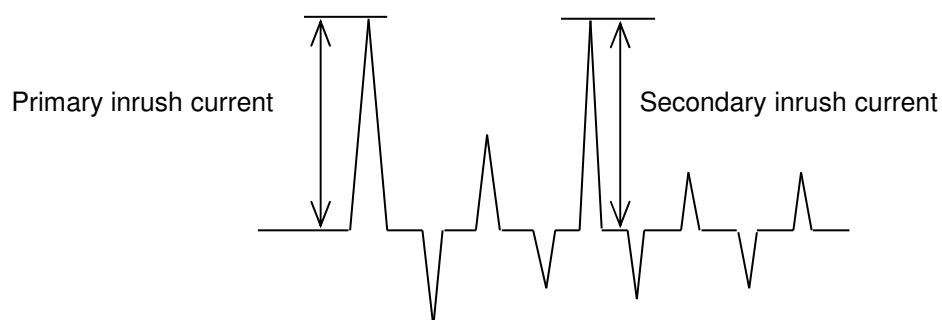
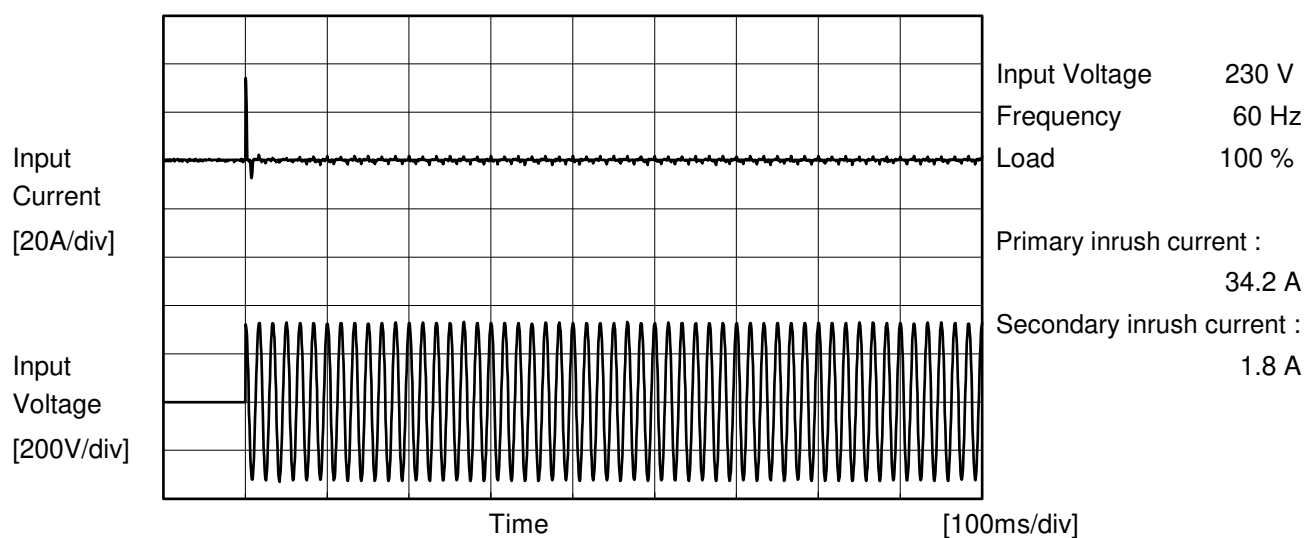
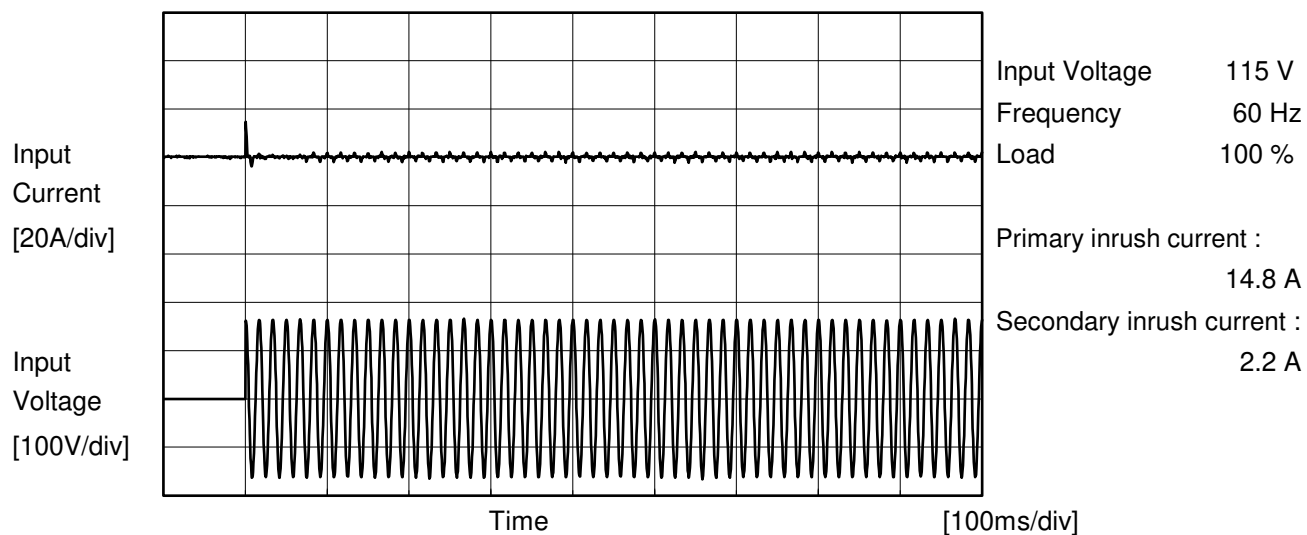
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Model		PJA50F-5	Temperature		25°C																																																							
Item		Power Factor (by Load Current)	Testing Circuitry		Figure A																																																							
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Model	PJA50F-5	Temperature	25°C
Item	Inrush Current	Testing Circuitry	Figure A
Object	_____		





Model		PJA50F-5	Temperature 25°C Testing Circuitry Figure C
Item		Leakage Current	
Object		_____	

1.Results

[mA]

Standards	Testing Circuitry	Measuring Method	Input Volt.			Note
			100 [V]	115 [V]	230 [V]	
DEN-AN	Figure C-1	Both phases	0.21	0.25	0.54	Operation
		One of phases	0.30	0.35	0.78	Stand by
IEC62368-1	Figure C-2	Both phases	0.21	0.24	0.53	Operation
		One of phases	0.30	0.35	0.76	Stand by
	Figure C-3	Both phases	0.21	0.24	0.52	Operation
		One of phases	0.30	0.35	0.76	Stand by

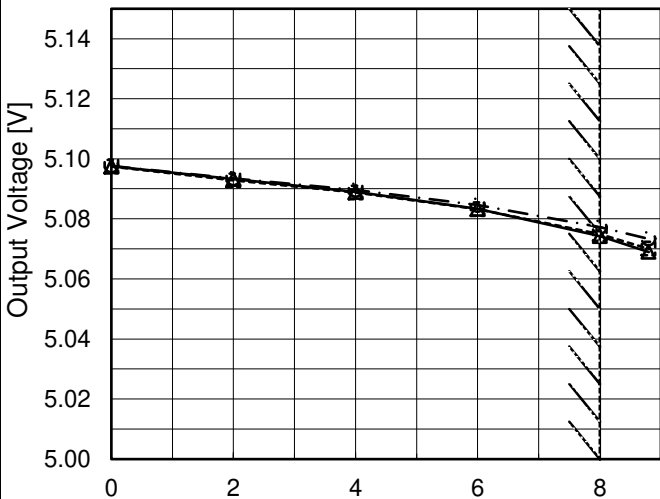
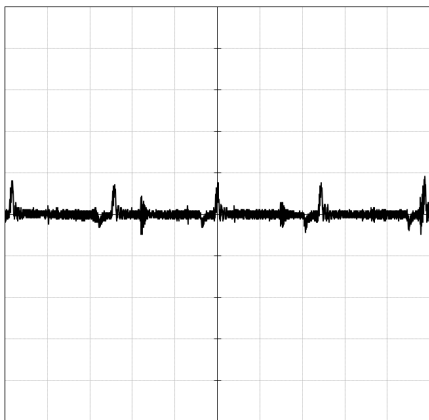
The value for "One of phases" is the reference value only.

2.Condition

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

Model	PJA50F-5	Temperature Testing Circuitry	25°C Figure A																																
Item	Line Regulation																																		
Object	+5V8A																																		
1.Graph		2.Values																																	
---□--- Load 50% —△— Load 100% Output Voltage [V] Input Voltage [V] Note: Slanted line shows the range of the rated input voltage.		<table><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><tr><td>85</td><td>5.088</td><td>5.073</td></tr><tr><td>100</td><td>5.088</td><td>5.075</td></tr><tr><td>115</td><td>5.088</td><td>5.076</td></tr><tr><td>200</td><td>5.088</td><td>5.077</td></tr><tr><td>230</td><td>5.088</td><td>5.078</td></tr><tr><td>264</td><td>5.088</td><td>5.079</td></tr><tr><td>280</td><td>5.089</td><td>5.079</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	85	5.088	5.073	100	5.088	5.075	115	5.088	5.076	200	5.088	5.077	230	5.088	5.078	264	5.088	5.079	280	5.089	5.079	--	-	-	--	-	-
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Object	+5V8A	Testing Circuitry	Figure B																																																							
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Input Voltage 230V Load 100%  20[mV/div] 4[μs/div]																																																										

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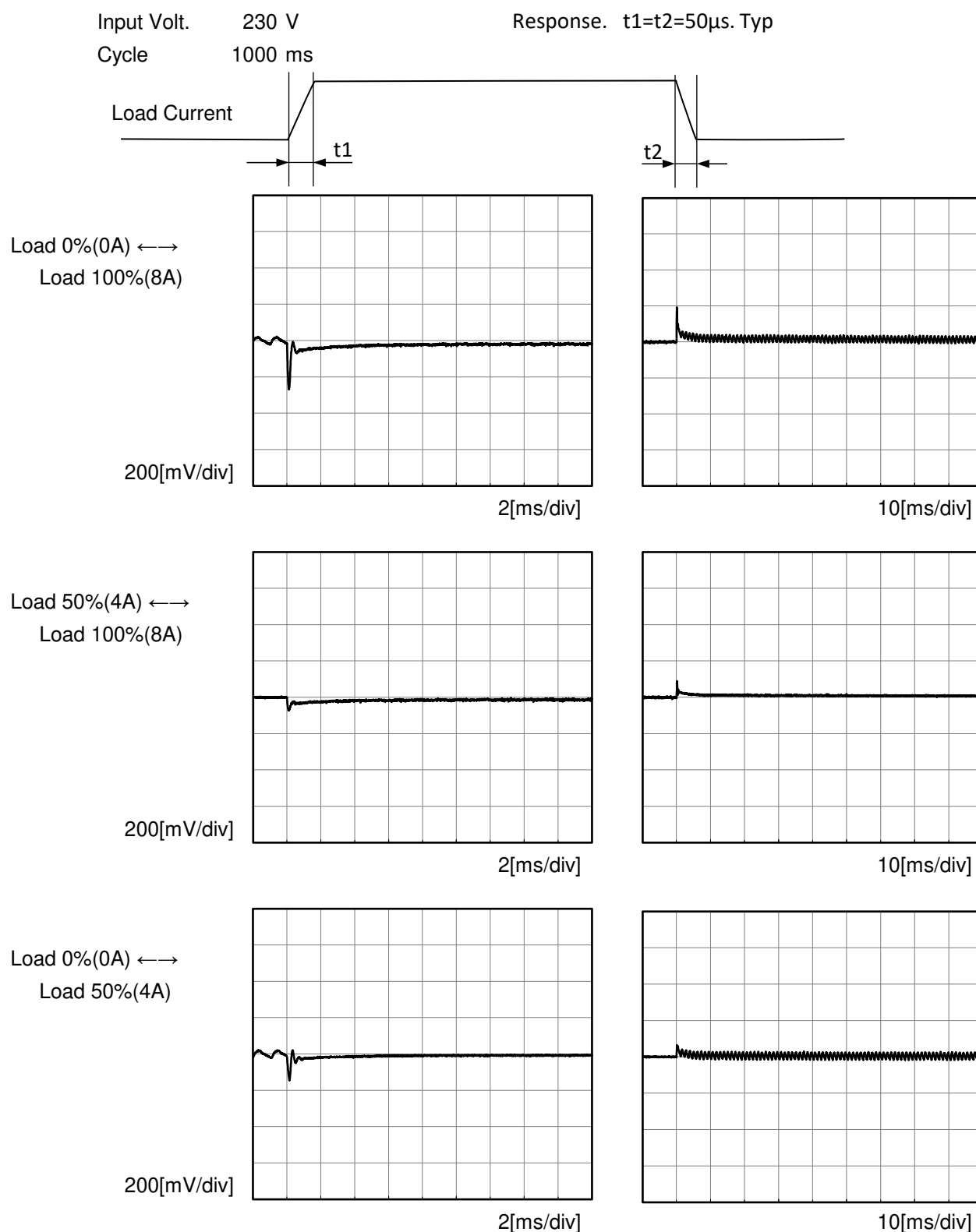
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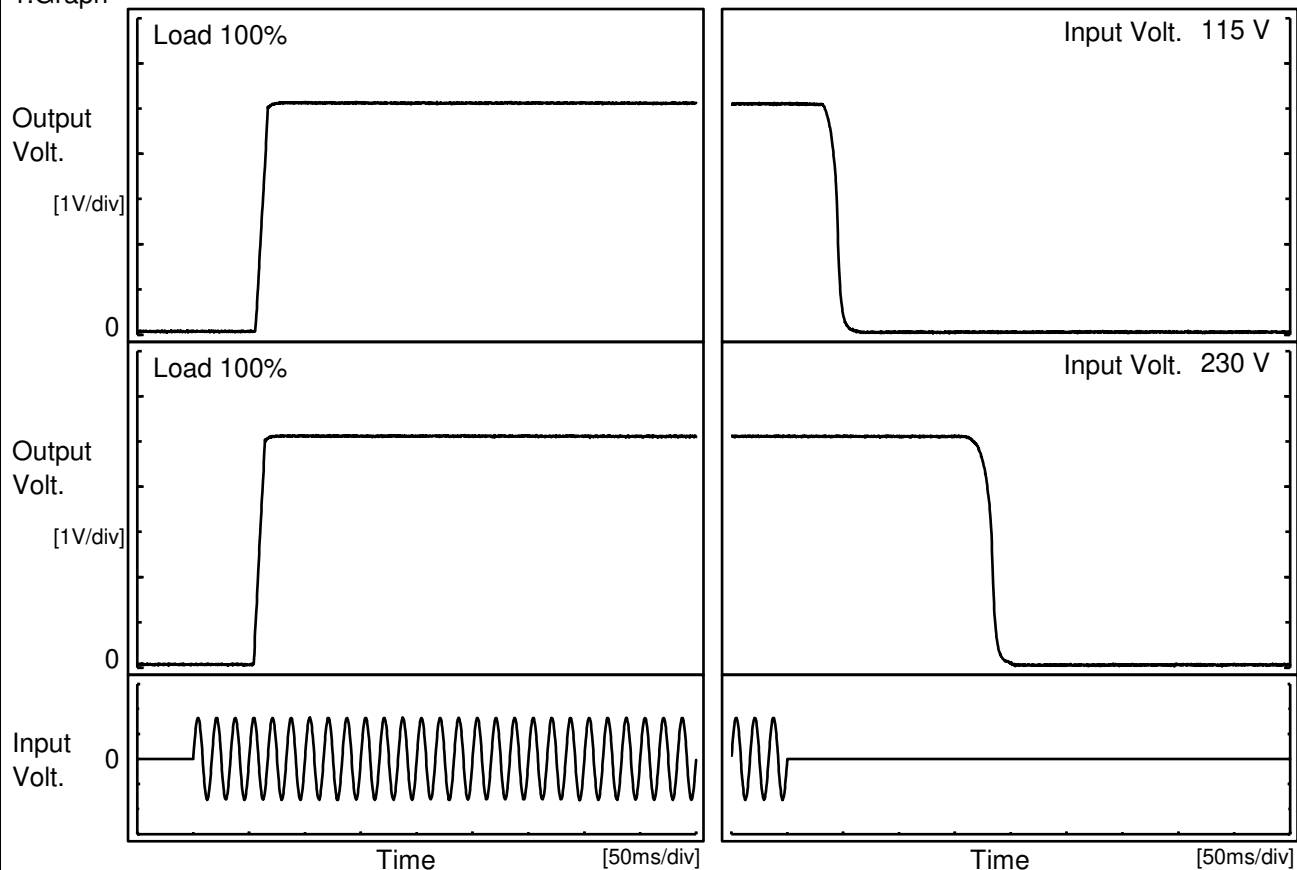
Model	PJA50F-5	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	+5V8A	



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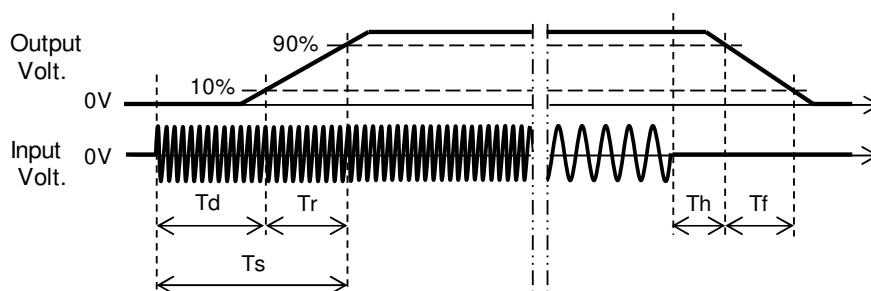
Model	PJA50F-5	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+5V8A		

1. Graph



2. Values

Input Volt.	Time	Td	Tr	Ts	Th	Tf
115 V		57.0	9.0	66.0	38.5	10.8
230 V		55.3	8.3	63.6	183.3	13.0



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Model	PJA50F-5																																		
Item	Hold-Up Time	Temperature	25°C																																
		Testing Circuitry	Figure A																																
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Hold-Up Time [ms] 1000 100 10 1 50 100 150 200 250 300 ---□--- Load 50% —△— Load 100% 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.		<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>44</td><td>13</td></tr><tr><td>100</td><td>63</td><td>23</td></tr><tr><td>115</td><td>87</td><td>34</td></tr><tr><td>200</td><td>287</td><td>125</td></tr><tr><td>230</td><td>388</td><td>173</td></tr><tr><td>264</td><td>517</td><td>229</td></tr><tr><td>280</td><td>587</td><td>273</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	44	13	100	63	23	115	87	34	200	287	125	230	388	173	264	517	229	280	587	273	--	-	-	--	-	-
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Object		+5V8A																																												
1.Graph			2.Values																																											
Input Volt. 115V Input Volt. 230V Note: Slanted line shows the range of the rated load current. Overcurrent protection is Hiccup mode.			<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>5.00</td><td>9.70</td><td>10.25</td></tr><tr><td>4.75</td><td>-</td><td>-</td></tr><tr><td>4.50</td><td>-</td><td>-</td></tr><tr><td>4.00</td><td>-</td><td>-</td></tr><tr><td>3.50</td><td>-</td><td>-</td></tr><tr><td>3.00</td><td>-</td><td>-</td></tr><tr><td>2.50</td><td>-</td><td>-</td></tr><tr><td>2.00</td><td>-</td><td>-</td></tr><tr><td>1.50</td><td>-</td><td>-</td></tr><tr><td>1.00</td><td>-</td><td>-</td></tr><tr><td>0.50</td><td>-</td><td>-</td></tr><tr><td>0.00</td><td>-</td><td>-</td></tr></table>			Output Voltage [V]	Load Current [A]		Input Volt. 115[V]	Input Volt. 230[V]	5.00	9.70	10.25	4.75	-	-	4.50	-	-	4.00	-	-	3.50	-	-	3.00	-	-	2.50	-	-	2.00	-	-	1.50	-	-	1.00	-	-	0.50	-	-	0.00	-	-
Output Voltage [V]	Load Current [A]																																													
	Input Volt. 115[V]	Input Volt. 230[V]																																												
5.00	9.70	10.25																																												
4.75	-	-																																												
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0.00	-	-																																												



		Testing Circuitry Figure A	
Model	PJA50F-5		
Item	Ambient Temperature Drift		
Object	+5V8A		
1.Values Load 100%			
Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 100V	Input Volt. 115V	Input Volt. 230V
-10	5.057	5.058	5.060
25	5.072	5.073	5.075
50	5.081	5.082	5.083
Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A	
Object	+5V8A		
1.Values			
Ambient Temperature[°C]	Input Voltage [V]		
	Load 50%	Load 100%	
-10	28	65	
25	27	66	
50	27	65	
Item	Overvoltage Protection	Testing Circuitry Figure A	
Object	+5V8A		
1.Values Load 0%			
Ambient Temperature[°C]	Operating Point [V]		
	Input Volt. 115V	Input Volt. 230V	
-20	6.30	6.30	
25	6.30	6.30	
50	6.30	6.30	

- 13 -

BC-12241

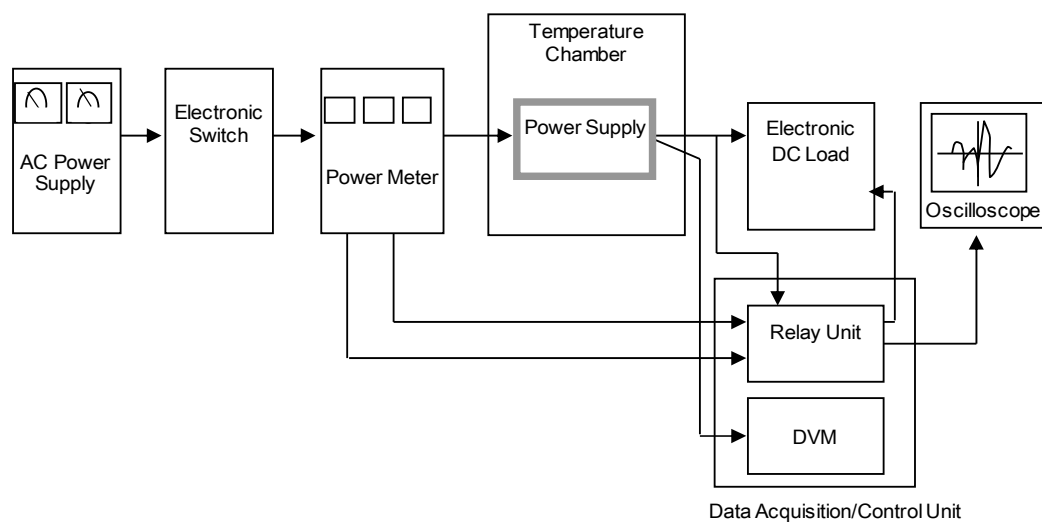


Figure A

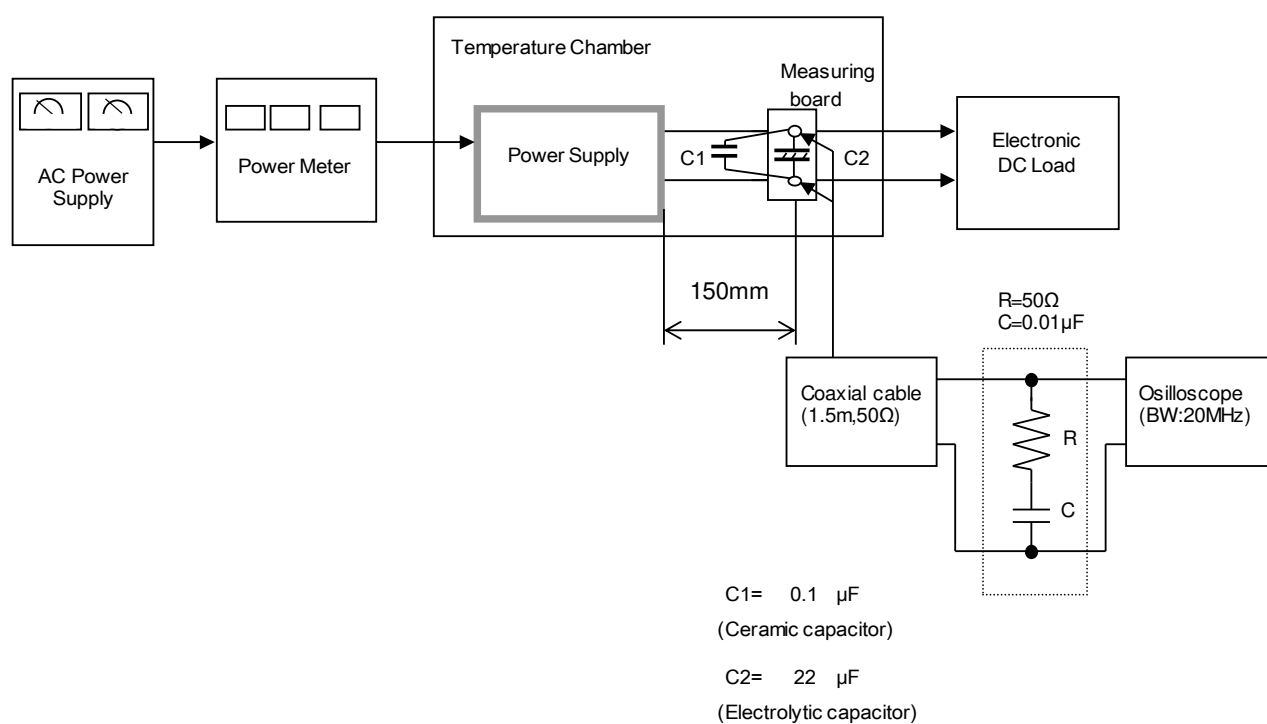


Figure B

