

TEST DATA OF PJA30F-5

Regulated DC Power Supply
May 26, 2026

Approved by : Yoshiaki Shimizu
Design Manager

Prepared by : Yeongjun Lee
Design Engineer

COSEL CO.,LTD.

CONTENTS

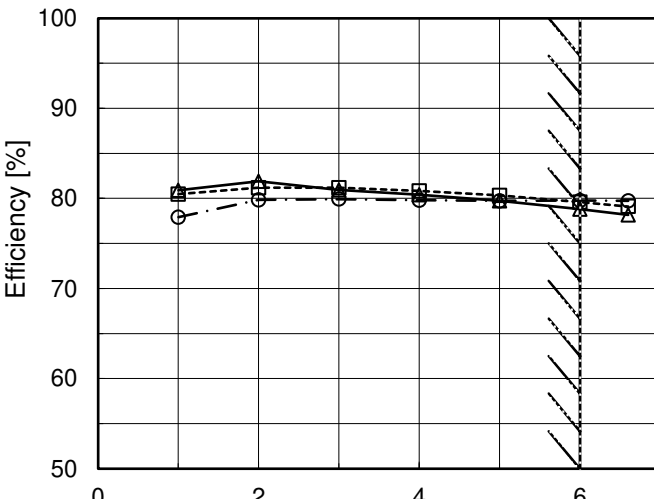
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Model		PJA30F-5		Temperature 25°C																																																		
Item		Input Current (by Load Current)		Testing Circuitry Figure A																																																		
Object		_____																																																				
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>0.012</td><td>0.013</td><td>0.021</td></tr><tr><td>1.0</td><td>0.131</td><td>0.119</td><td>0.078</td></tr><tr><td>2.0</td><td>0.232</td><td>0.212</td><td>0.133</td></tr><tr><td>3.0</td><td>0.337</td><td>0.303</td><td>0.188</td></tr><tr><td>4.0</td><td>0.442</td><td>0.396</td><td>0.242</td></tr><tr><td>5.0</td><td>0.549</td><td>0.490</td><td>0.296</td></tr><tr><td>6.0</td><td>0.656</td><td>0.586</td><td>0.350</td></tr><tr><td>6.6</td><td>0.722</td><td>0.645</td><td>0.384</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	0.012	0.013	0.021	1.0	0.131	0.119	0.078	2.0	0.232	0.212	0.133	3.0	0.337	0.303	0.188	4.0	0.442	0.396	0.242	5.0	0.549	0.490	0.296	6.0	0.656	0.586	0.350	6.6	0.722	0.645	0.384	--	-	-	-	--	-	-	-	--	-	-	-
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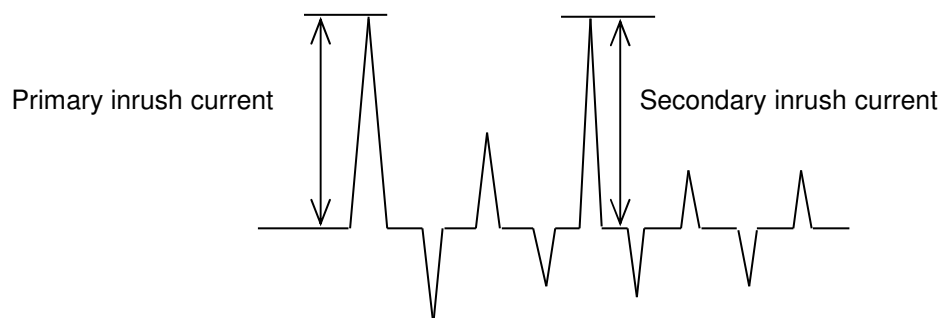
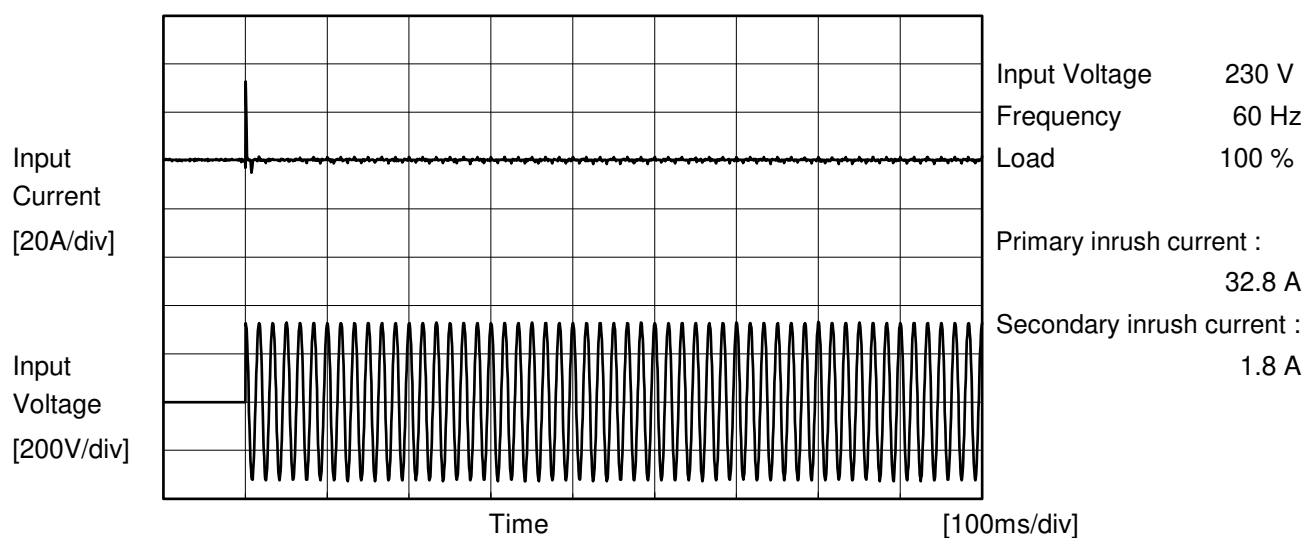
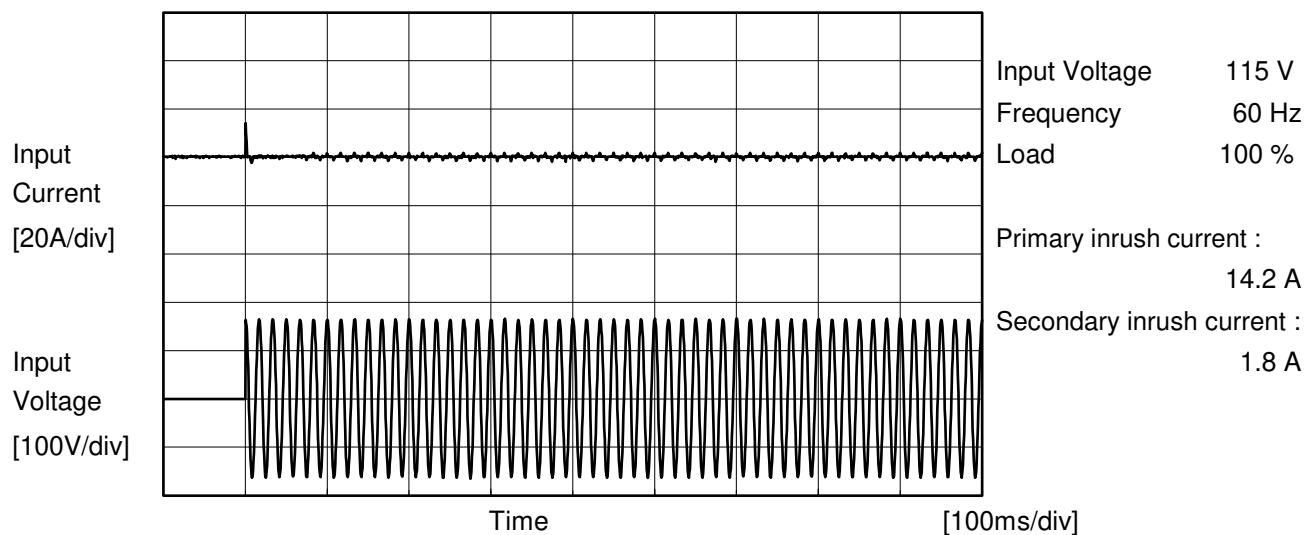
Model		PJA30F-5	Temperature		25°C																																																			
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Model	PJA30F-5	Temperature	25°C
Item	Inrush Current	Testing Circuitry	Figure A
Object	_____		





Model		PJA30F-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	0.19	0.22	0.48	Operation
		One of phases	0.27	0.32	0.70	Stand by
IEC62368-1	Figure C-2	Both phases	0.18	0.21	0.46	Operation
		One of phases	0.27	0.31	0.69	Stand by
	Figure C-3	Both phases	0.18	0.21	0.46	Operation
		One of phases	0.27	0.31	0.68	Stand by

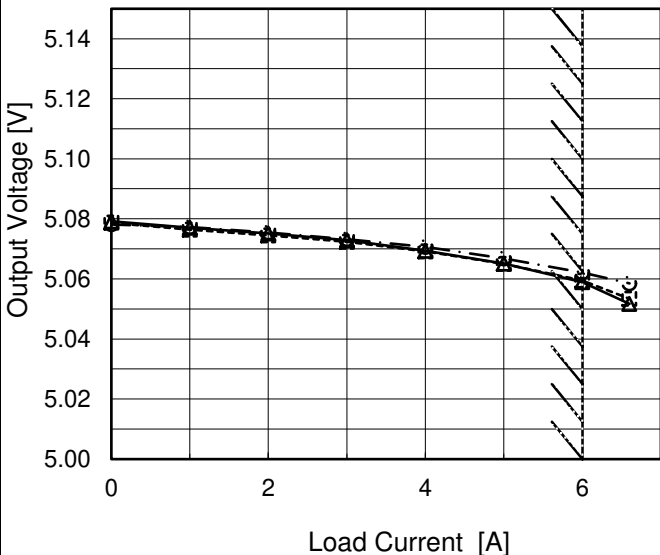
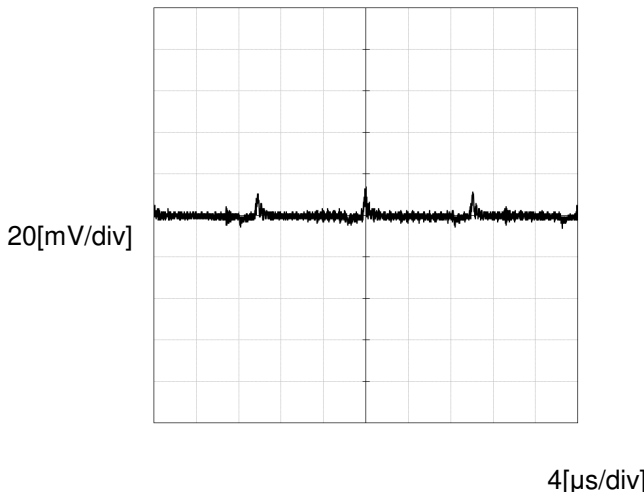
The value for "One of phases" is the reference value only.

2.Condition

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

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Model	PJA30F-5																																		
Item	Line Regulation	Temperature	25°C																																
Object	+5V6A	Testing Circuitry	Figure A																																
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>5.071</td><td>5.056</td></tr><tr><td>100</td><td>5.072</td><td>5.059</td></tr><tr><td>115</td><td>5.072</td><td>5.061</td></tr><tr><td>200</td><td>5.072</td><td>5.062</td></tr><tr><td>230</td><td>5.072</td><td>5.063</td></tr><tr><td>264</td><td>5.072</td><td>5.063</td></tr><tr><td>280</td><td>5.072</td><td>5.064</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	5.071	5.056	100	5.072	5.059	115	5.072	5.061	200	5.072	5.062	230	5.072	5.063	264	5.072	5.063	280	5.072	5.064	--	-	-	--	-	-
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Object	+5V6A	Testing Circuitry	Figure B																																																			
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Input Voltage 230V Load 100%  20[mV/div] 4[μs/div]																																																						

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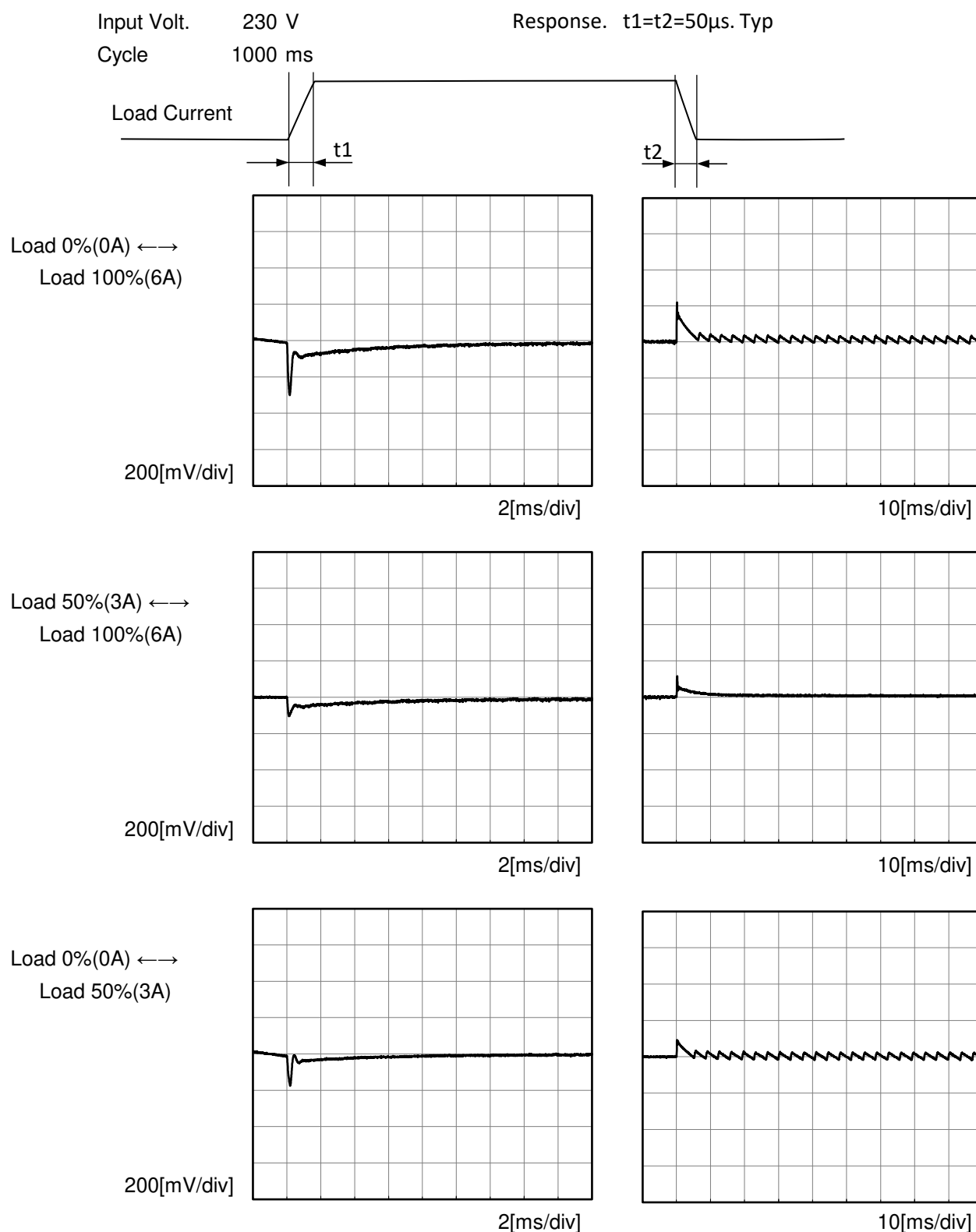
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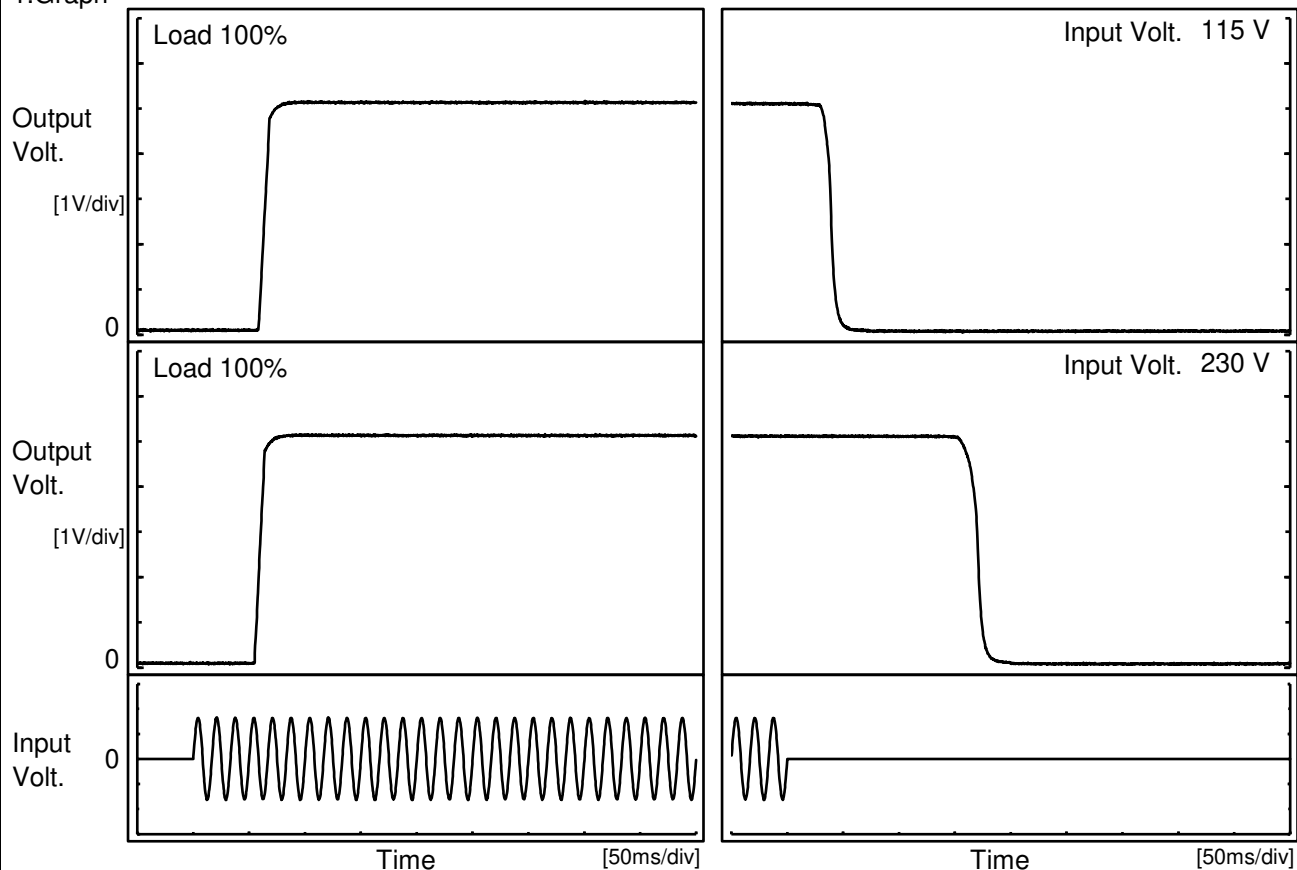
Model	PJA30F-5	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	+5V6A	



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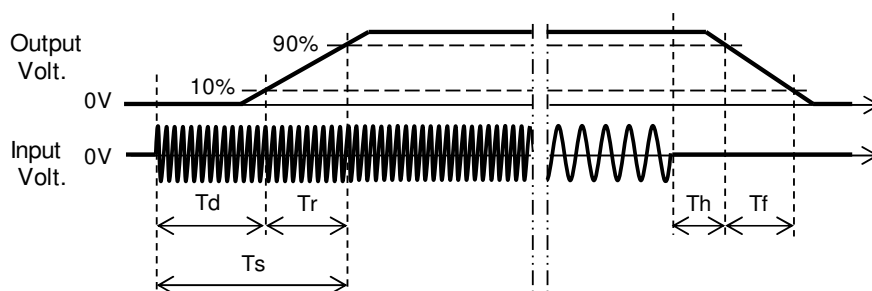
Model	PJA30F-5	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+5V6A		

1. Graph



2. Values

Input Volt.	Time	Td	Tr	Ts	Th	Tf
115 V		59.8	8.3	68.1	34.0	11.0
230 V		55.8	7.8	63.6	162.8	13.8

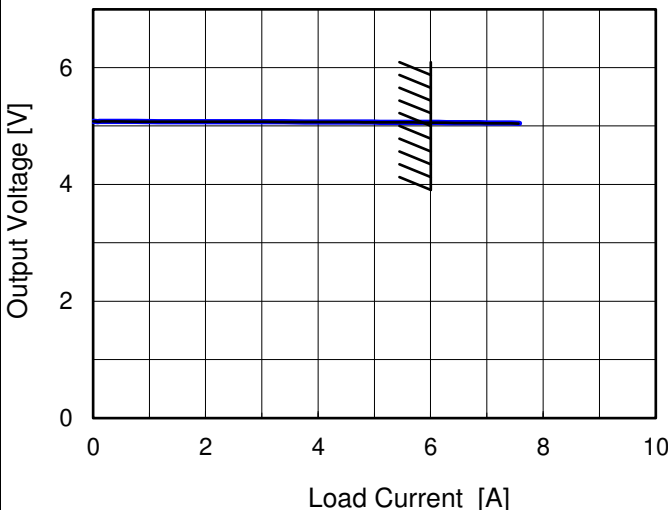


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Model	PJA30F-5	Temperature	25°C
Item	Hold-Up Time	Testing Circuitry	Figure A
Object	+5V6A		
1.Graph		2.Values	
<			

Model	PJA30F-5	Temperature	25°C																																																			
Item	Instantaneous Interruption Compensation	Testing Circuitry	Figure A																																																			
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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>7.56</td><td>7.57</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	7.56	7.57	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	7.56	7.57																																												
4.75	-	-																																												
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0.00	-	-																																												



Model		PJA30F-5	Testing Circuitry Figure A
Item		Ambient Temperature Drift	
Object		+5V6A	
1.Values		Load 100%	
Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 100V	Input Volt. 115V	Input Volt. 230V
-10	5.039	5.040	5.044
25	5.058	5.059	5.061
50	5.066	5.066	5.068

Item		Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object		+5V6A	
1.Values			
Ambient Temperature[°C]	Input Voltage [V]		
	Load 50%	Load 100%	
-10	30	57	
25	29	58	
50	29	61	

Item		Overvoltage Protection	Testing Circuitry Figure A
Object		+5V6A	
1.Values		Load 0%	
Ambient Temperature[°C]	Operating Point [V]		
	Input Volt. 115V	Input Volt. 230V	
-20	6.29	6.29	
25	6.29	6.29	
50	6.29	6.29	

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BC-12237

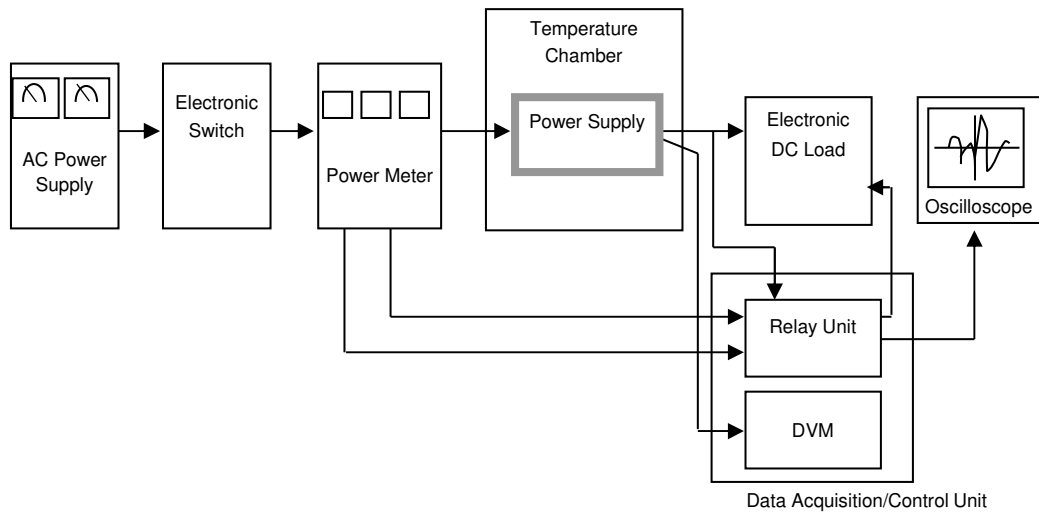


Figure A

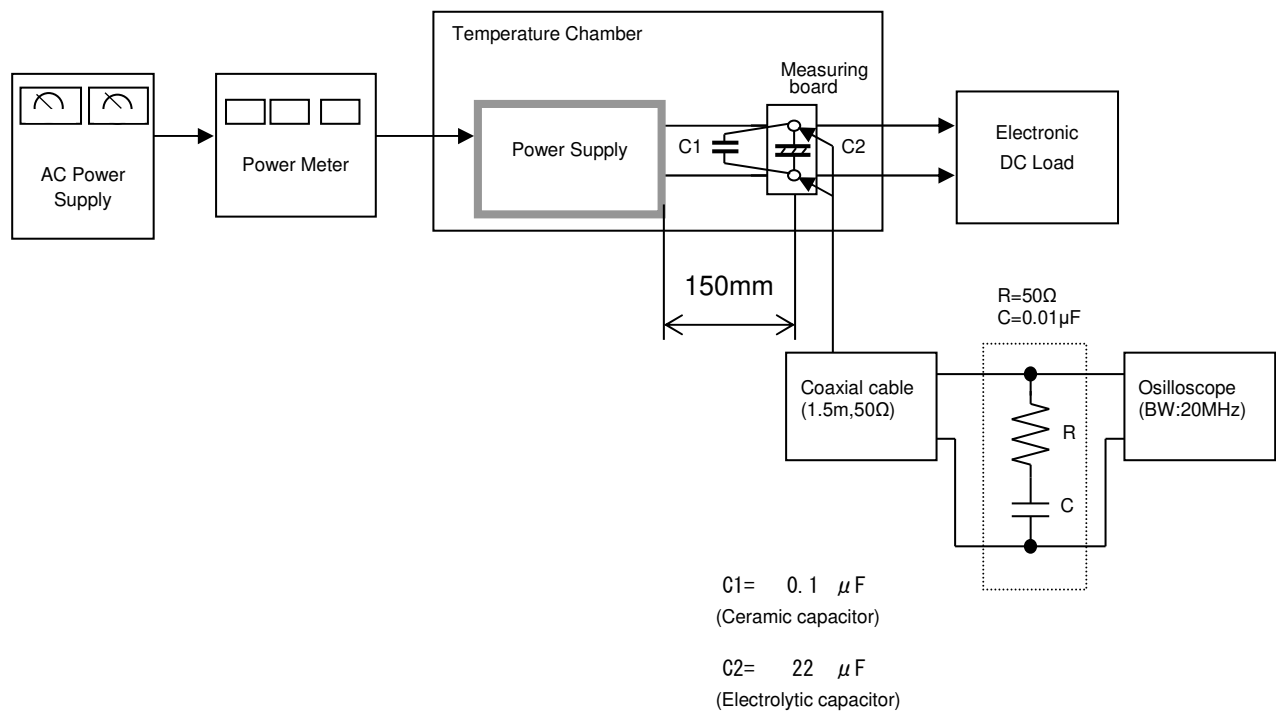


Figure B

