

TEST DATA OF PJA30F-15

Regulated DC Power Supply
May 26, 2026

Approved by : Yoshiaki Shimizu
Design Manager

Prepared by : Yeongjun Lee
Design Engineer

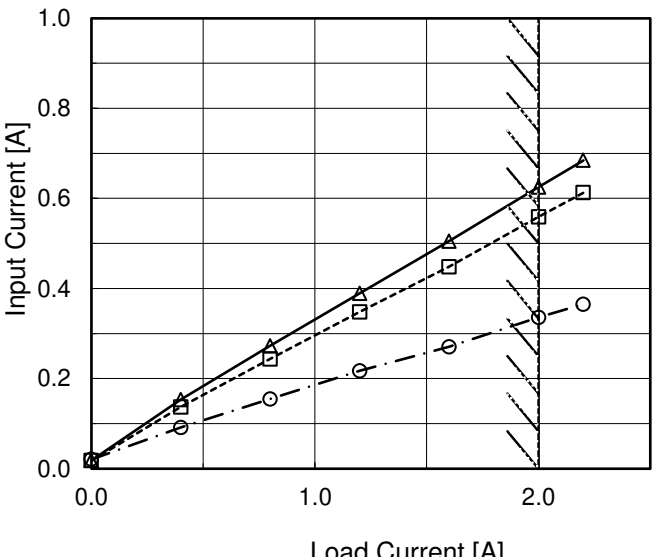
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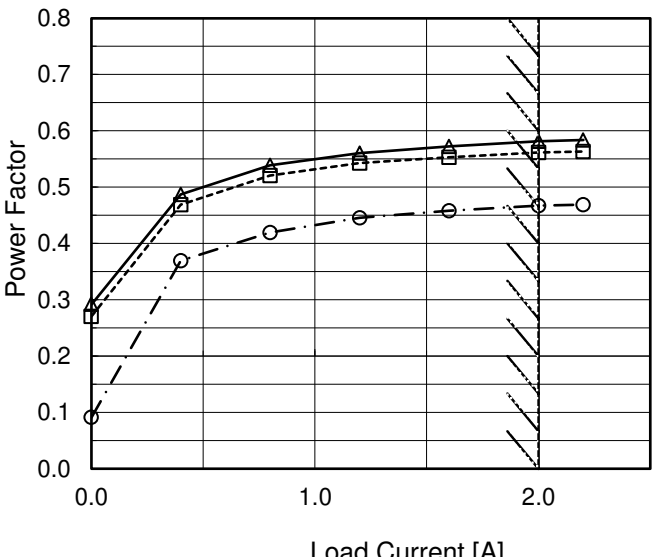
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Model		PJA30F-15		Temperature 25°C																																																				
Item		Input Current (by Load Current)		Testing Circuitry Figure A																																																				
Object		_____																																																						
1.Graph		—△— Input Volt. 100V ---□--- Input Volt. 115V ---○--- Input Volt. 230V  Input Current [A] Load Current [A] Note: Slanted line shows the range of the rated load current.		2.Values																																																				
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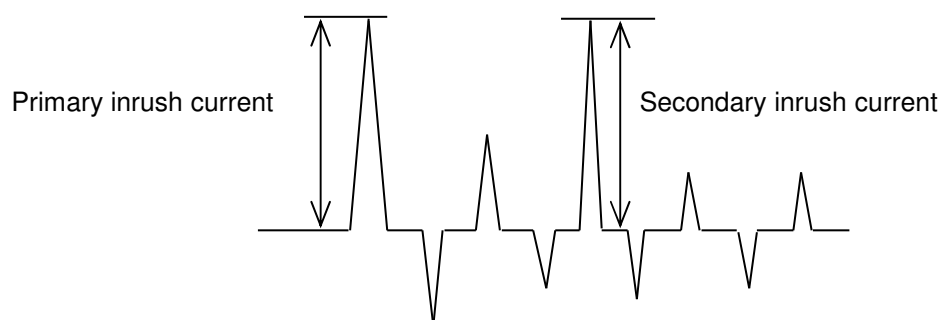
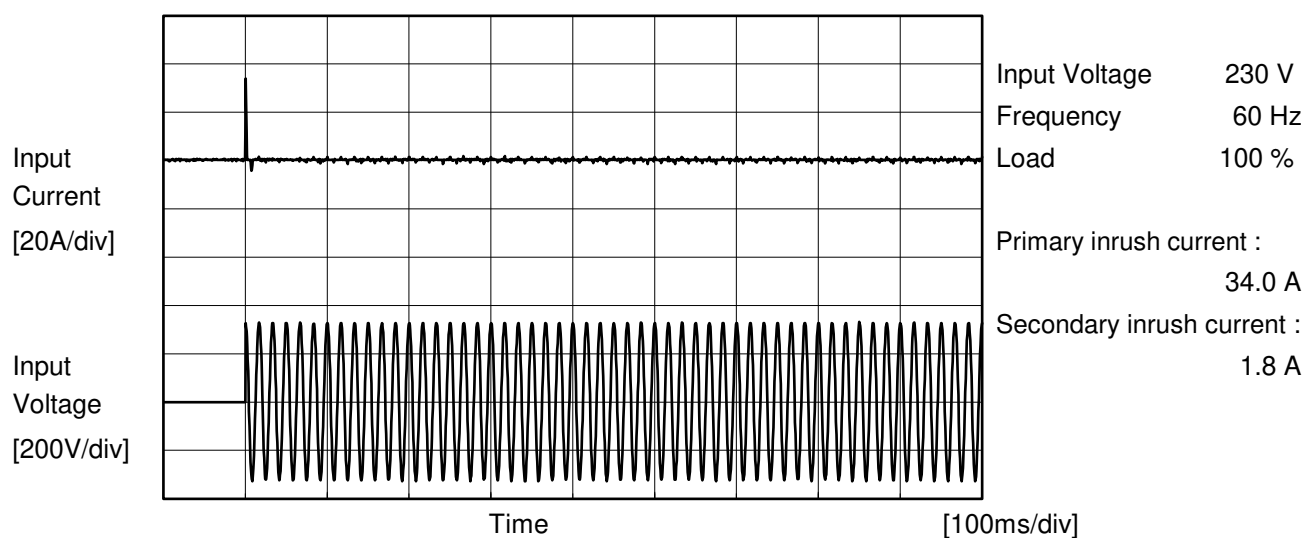
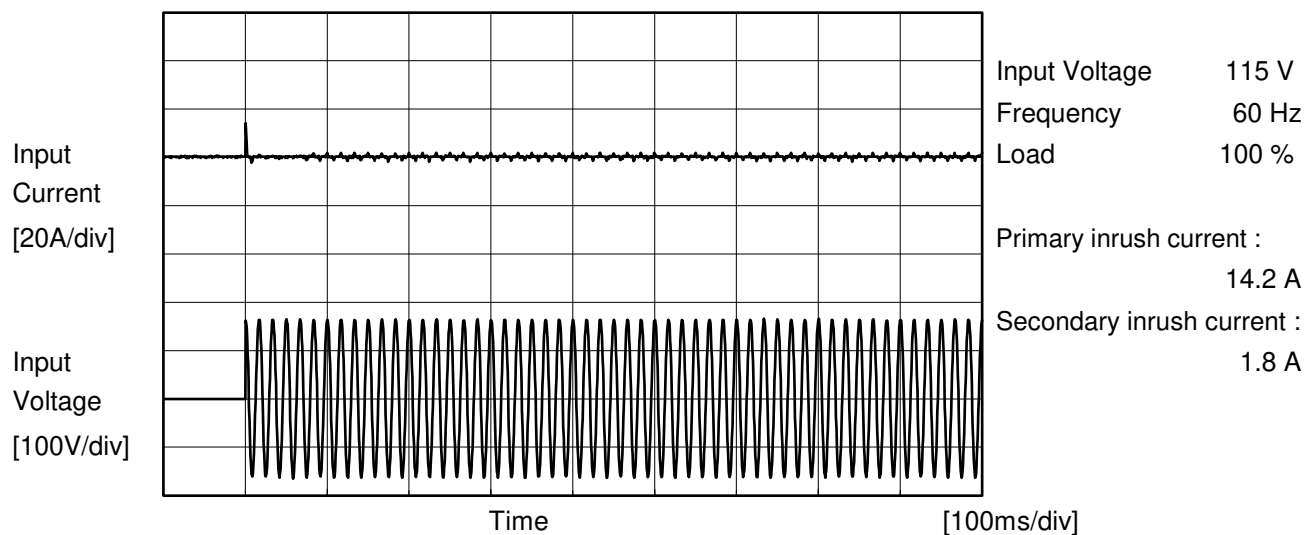
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Model	PJA30F-15	Temperature	25°C
Item	Inrush Current	Testing Circuitry	Figure A
Object	_____		





Model		PJA30F-15	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

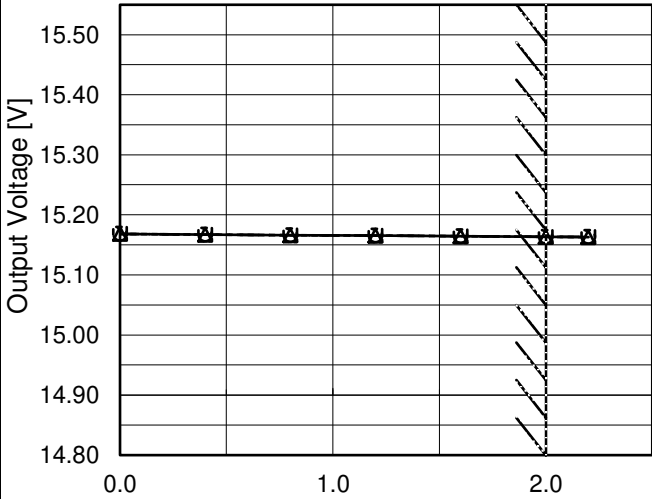
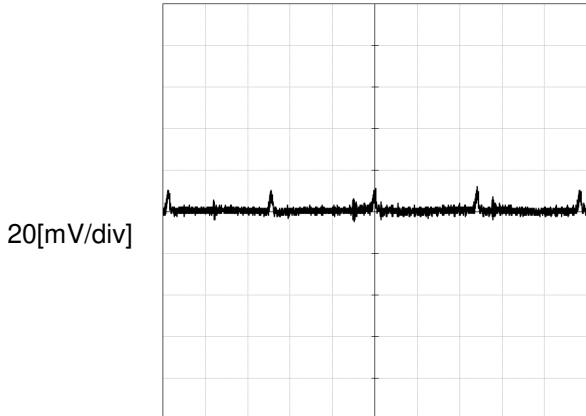
The value for "One of phases" is the reference value only.

2.Condition

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

Model		PJA30F-15	Temperature		25°C																																
Item		Line Regulation	Testing Circuitry		Figure A																																
Object		+15V2A																																			
1.Graph			2.Values																																		
Load 50% Load 100% <table><thead><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></thead><tbody><tr><td>85</td><td>15.163</td><td>15.161</td></tr><tr><td>100</td><td>15.163</td><td>15.162</td></tr><tr><td>115</td><td>15.163</td><td>15.162</td></tr><tr><td>200</td><td>15.163</td><td>15.162</td></tr><tr><td>230</td><td>15.163</td><td>15.162</td></tr><tr><td>264</td><td>15.163</td><td>15.163</td></tr><tr><td>280</td><td>15.163</td><td>15.163</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table> Note: Slanted line shows the range of the rated input voltage.			Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	85	15.163	15.161	100	15.163	15.162	115	15.163	15.162	200	15.163	15.162	230	15.163	15.162	264	15.163	15.163	280	15.163	15.163	--	-	-	--	-	-			
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Input Voltage 230V Load 100%  20[mV/div] 4[μs/div]																																																						

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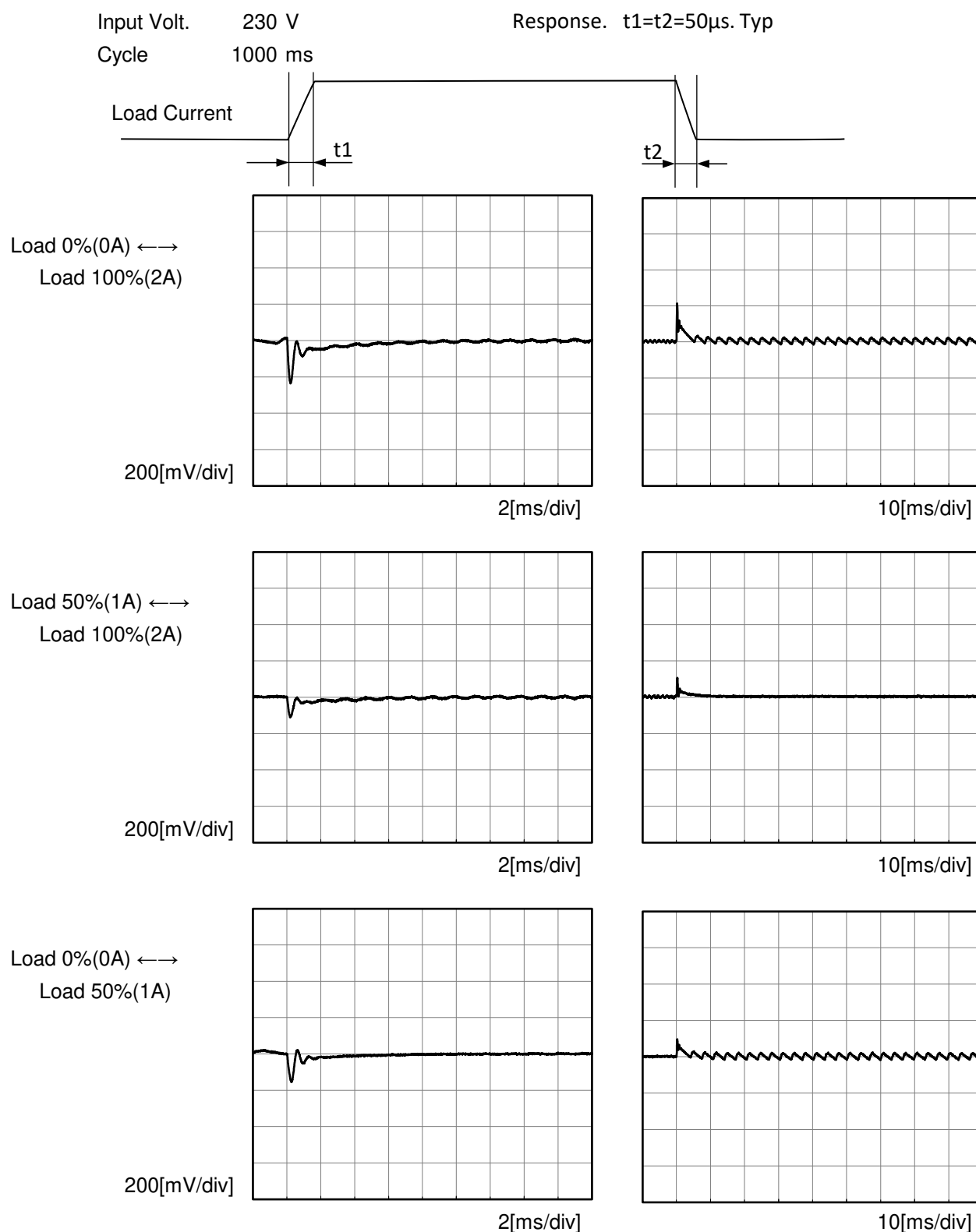
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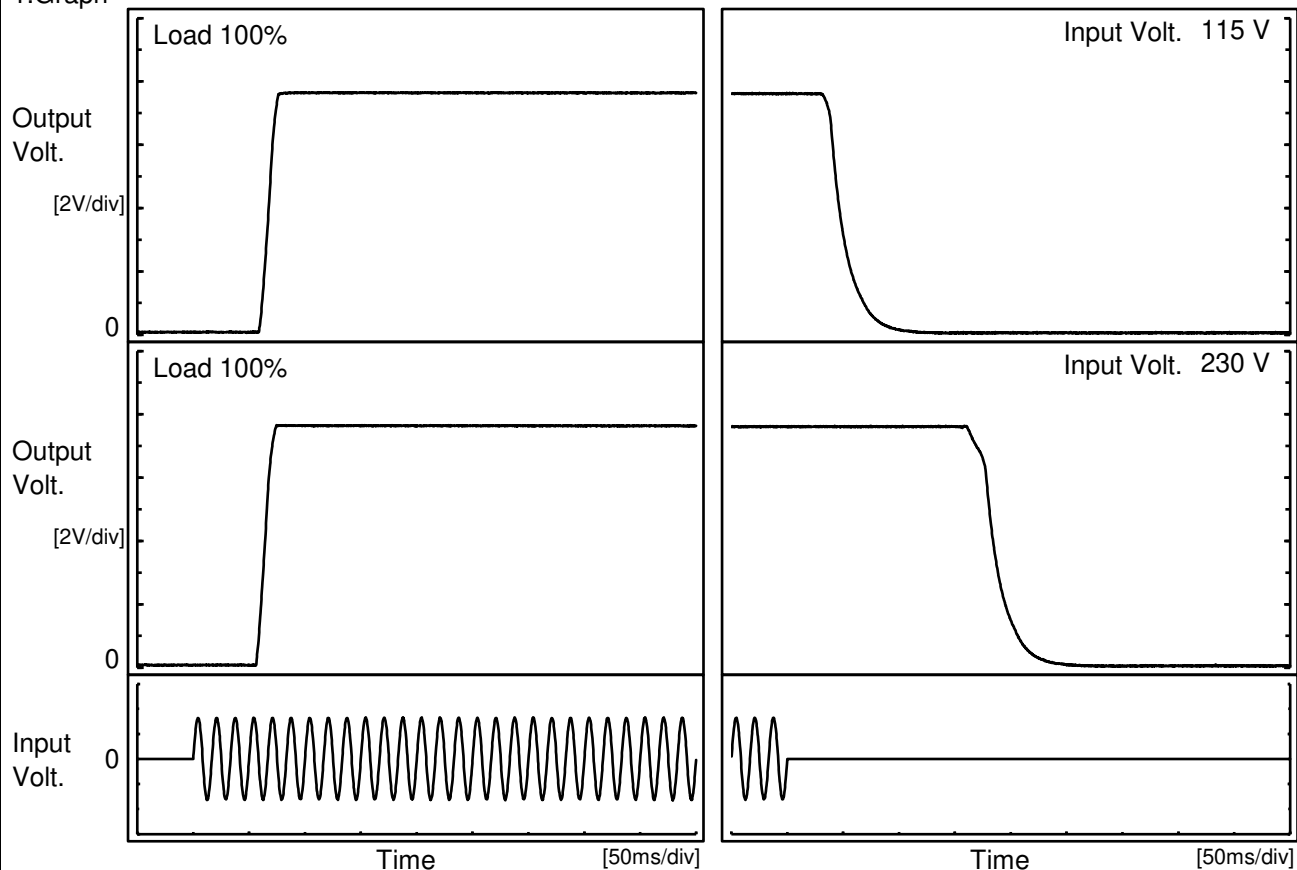
Model	PJA30F-15	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	+15V2A	



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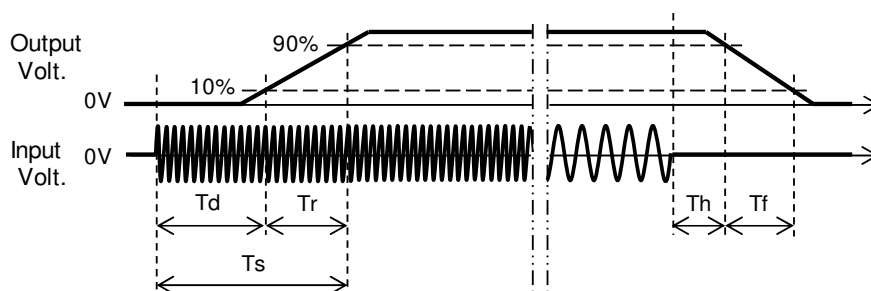
Model	PJA30F-15	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+15V2A		

1.Graph

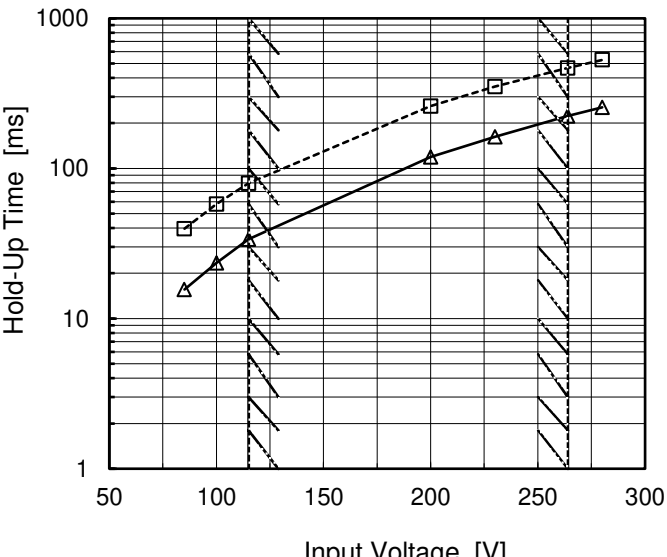


2.Values

Input Volt. \ Time	Td	Tr	Ts	Th	Tf
115 V	61.3	12.0	73.3	38.5	33.5
230 V	58.5	11.8	70.3	172.8	36.8



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Hold-Up Time [ms] 1000 100 10 1 50 100 150 200 250 300 ---□--- Load 50% —△— Load 100% <table><thead><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></thead><tbody><tr><td>85</td><td>40</td><td>16</td></tr><tr><td>100</td><td>58</td><td>23</td></tr><tr><td>115</td><td>80</td><td>34</td></tr><tr><td>200</td><td>260</td><td>119</td></tr><tr><td>230</td><td>351</td><td>163</td></tr><tr><td>264</td><td>467</td><td>223</td></tr><tr><td>280</td><td>529</td><td>255</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table> 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.		Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	85	40	16	100	58	23	115	80	34	200	260	119	230	351	163	264	467	223	280	529	255	--	-	-	--	-	-		
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Model		PJA30F-15	Temperature		25°C																																									
Item		Overcurrent Protection	Testing Circuitry		Figure A																																									
Object		+15V2A																																												
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>15.00</td><td>2.57</td><td>2.41</td></tr><tr><td>14.25</td><td>-</td><td>-</td></tr><tr><td>13.50</td><td>-</td><td>-</td></tr><tr><td>12.00</td><td>-</td><td>-</td></tr><tr><td>10.50</td><td>-</td><td>-</td></tr><tr><td>9.00</td><td>-</td><td>-</td></tr><tr><td>7.50</td><td>-</td><td>-</td></tr><tr><td>6.00</td><td>-</td><td>-</td></tr><tr><td>4.50</td><td>-</td><td>-</td></tr><tr><td>3.00</td><td>-</td><td>-</td></tr><tr><td>1.50</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]	15.00	2.57	2.41	14.25	-	-	13.50	-	-	12.00	-	-	10.50	-	-	9.00	-	-	7.50	-	-	6.00	-	-	4.50	-	-	3.00	-	-	1.50	-	-	0.00	-	-
Output Voltage [V]	Load Current [A]																																													
	Input Volt. 115[V]	Input Volt. 230[V]																																												
15.00	2.57	2.41																																												
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4.50	-	-																																												
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1.50	-	-																																												
0.00	-	-																																												



		Testing Circuitry Figure A	
Model	PJA30F-15		
Item	Ambient Temperature Drift		
Object	+15V2A		
1.Values Load 100%			
Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 100V	Input Volt. 115V	Input Volt. 230V
-10	15.140	15.139	15.141
25	15.163	15.163	15.163
50	15.166	15.166	15.166
Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A	
Object	+15V2A		
1.Values			
Ambient Temperature[°C]	Input Voltage [V]		
	Load 50%	Load 100%	
-10	32	61	
25	32	62	
50	31	63	
Item	Overvoltage Protection	Testing Circuitry Figure A	
Object	+15V2A		
1.Values Load 0%			
Ambient Temperature[°C]	Operating Point [V]		
	Input Volt. 115V	Input Volt. 230V	
-20	18.85	18.85	
25	19.44	19.44	
50	19.82	19.82	

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BC-12239

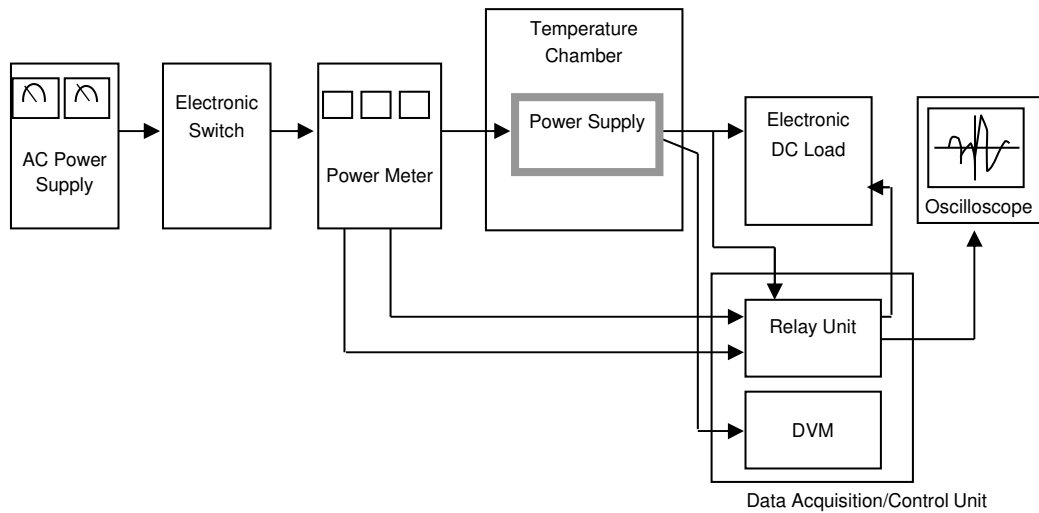


Figure A

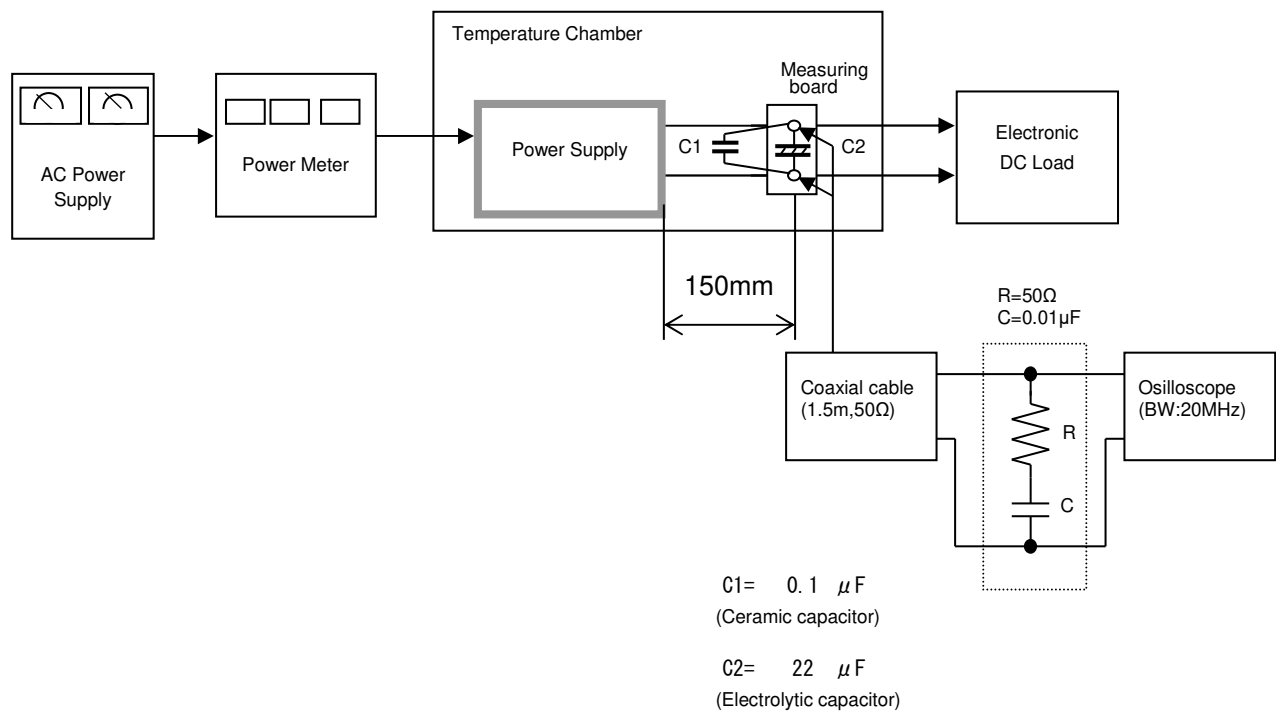


Figure B

