

TEST DATA OF PJA50F-15

Regulated DC Power Supply
May 26, 2026

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Design Manager

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Design Engineer

COSEL CO.,LTD.

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Model		PJA50F-15	Temperature		25°C																																																			
Item		Input Current (by Load Current)	Testing Circuitry		Figure A																																																			
Object																																																								
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—△— 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.		<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>0.030</td><td>0.034</td><td>0.066</td></tr><tr><td>0.60</td><td>0.224</td><td>0.202</td><td>0.149</td></tr><tr><td>1.20</td><td>0.400</td><td>0.348</td><td>0.239</td></tr><tr><td>1.80</td><td>0.562</td><td>0.508</td><td>0.328</td></tr><tr><td>2.40</td><td>0.744</td><td>0.658</td><td>0.412</td></tr><tr><td>3.00</td><td>0.920</td><td>0.821</td><td>0.490</td></tr><tr><td>3.50</td><td>1.068</td><td>0.955</td><td>0.560</td></tr><tr><td>3.85</td><td>1.174</td><td>1.048</td><td>0.621</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	0.030	0.034	0.066	0.60	0.224	0.202	0.149	1.20	0.400	0.348	0.239	1.80	0.562	0.508	0.328	2.40	0.744	0.658	0.412	3.00	0.920	0.821	0.490	3.50	1.068	0.955	0.560	3.85	1.174	1.048	0.621	--	-	-	-	--	-	-	-	--	-	-	-
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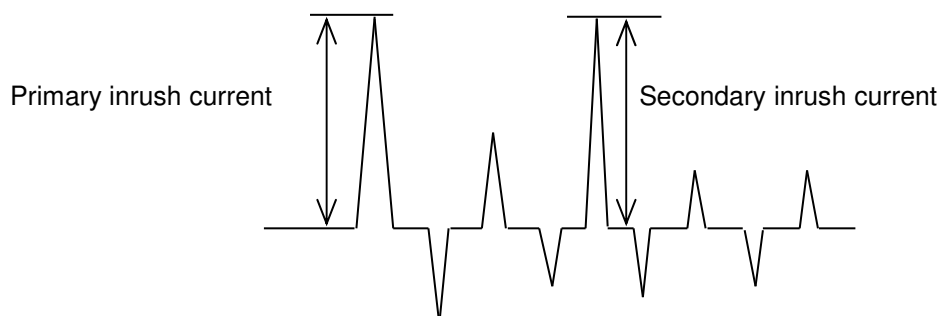
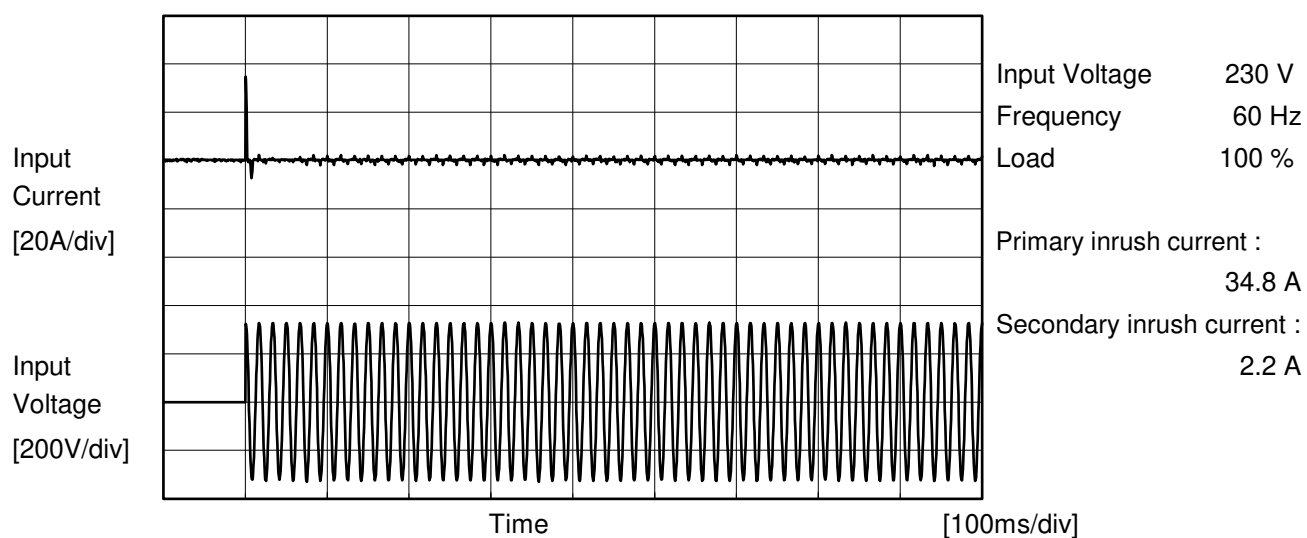
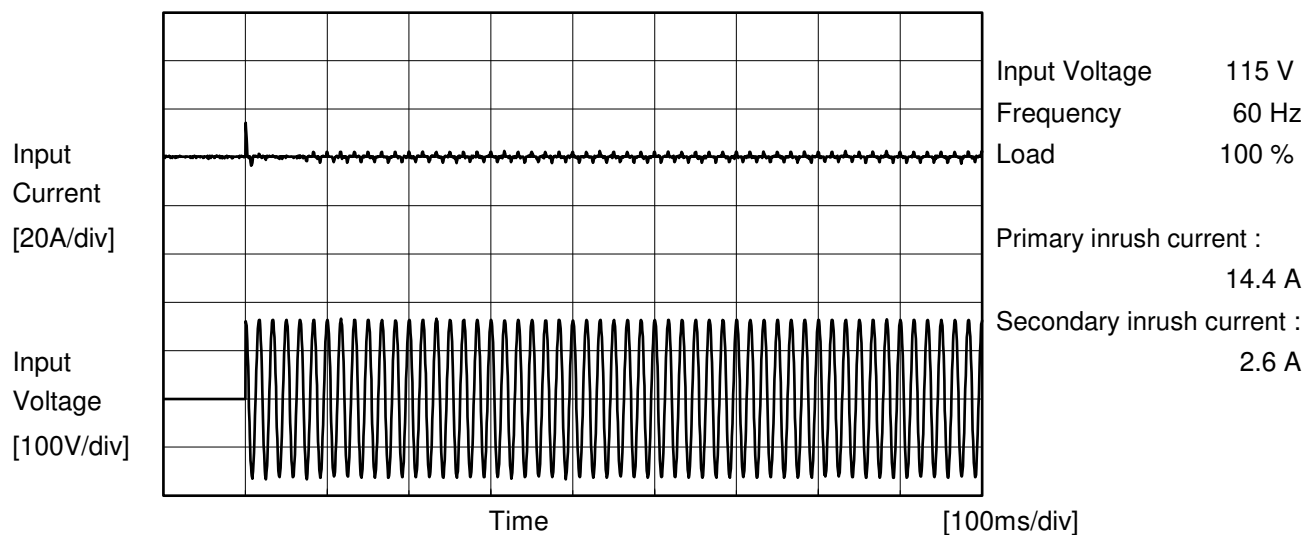
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Model	PJA50F-15	Temperature	25°C
Item	Inrush Current	Testing Circuitry	Figure A
Object	_____		





Model		PJA50F-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	0.21	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.

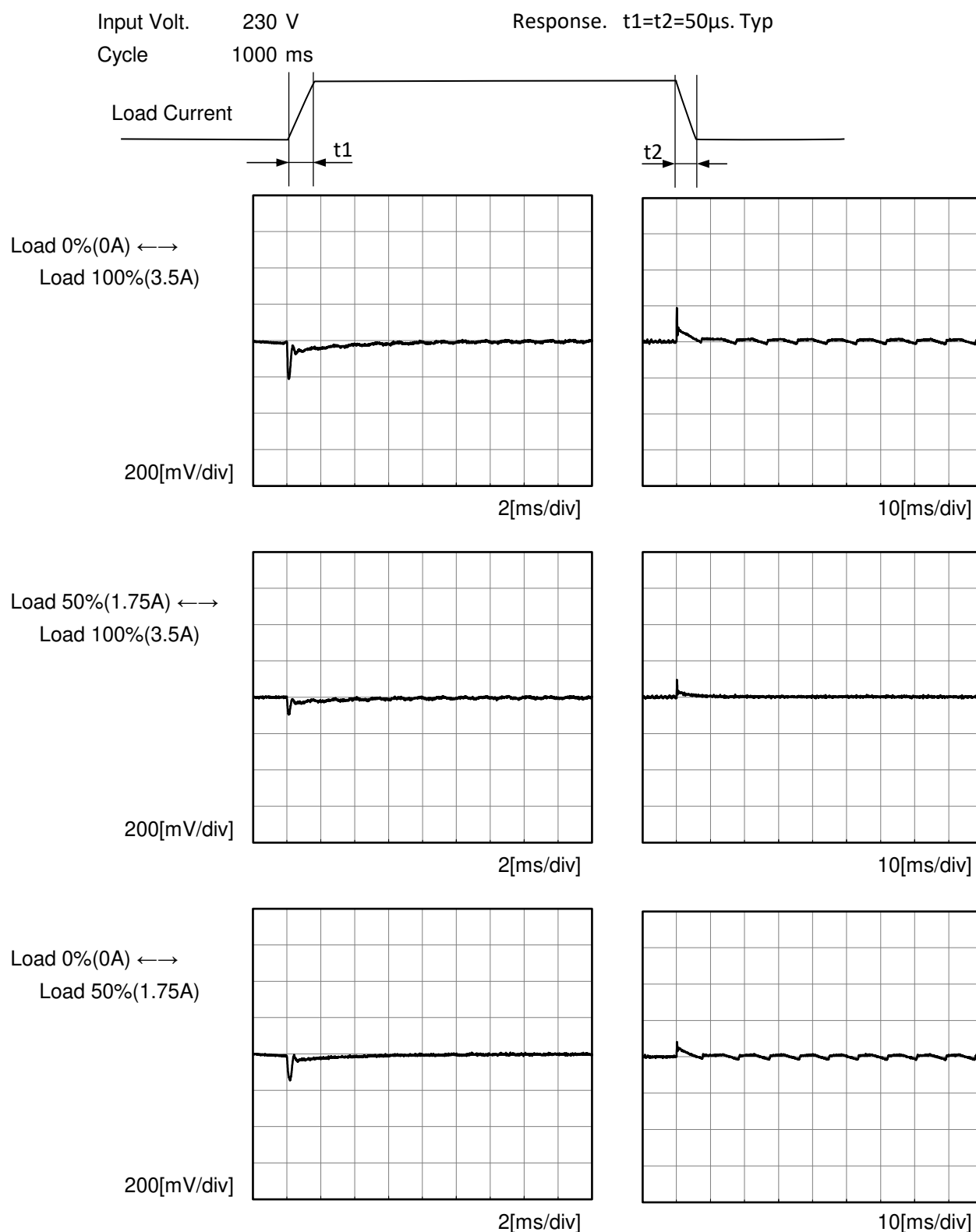
Model		PJA50F-15	Temperature		25°C																																
Item		Line Regulation	Testing Circuitry		Figure A																																
Object		+15V3.5A																																			
1.Graph			2.Values																																		
Load 50% Load 100% <table><thead><tr><th rowspan="2">Input 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>15.146</td><td>15.145</td></tr><tr><td>100</td><td>15.147</td><td>15.145</td></tr><tr><td>115</td><td>15.147</td><td>15.145</td></tr><tr><td>200</td><td>15.147</td><td>15.145</td></tr><tr><td>230</td><td>15.147</td><td>15.145</td></tr><tr><td>264</td><td>15.147</td><td>15.145</td></tr><tr><td>280</td><td>15.147</td><td>15.146</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	15.146	15.145	100	15.147	15.145	115	15.147	15.145	200	15.147	15.145	230	15.147	15.145	264	15.147	15.145	280	15.147	15.146	--	-	-	--	-	-			
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Model		PJA50F-15		Temperature25°C	
Item		Load Regulation		Testing CircuitryFigure A	
Object		+15V3.5A			
1.Graph		—△— ---□--- ---○--- Input Volt. 100V Input Volt. 115V Input Volt. 230V		2.Values	
Output Voltage [V]					

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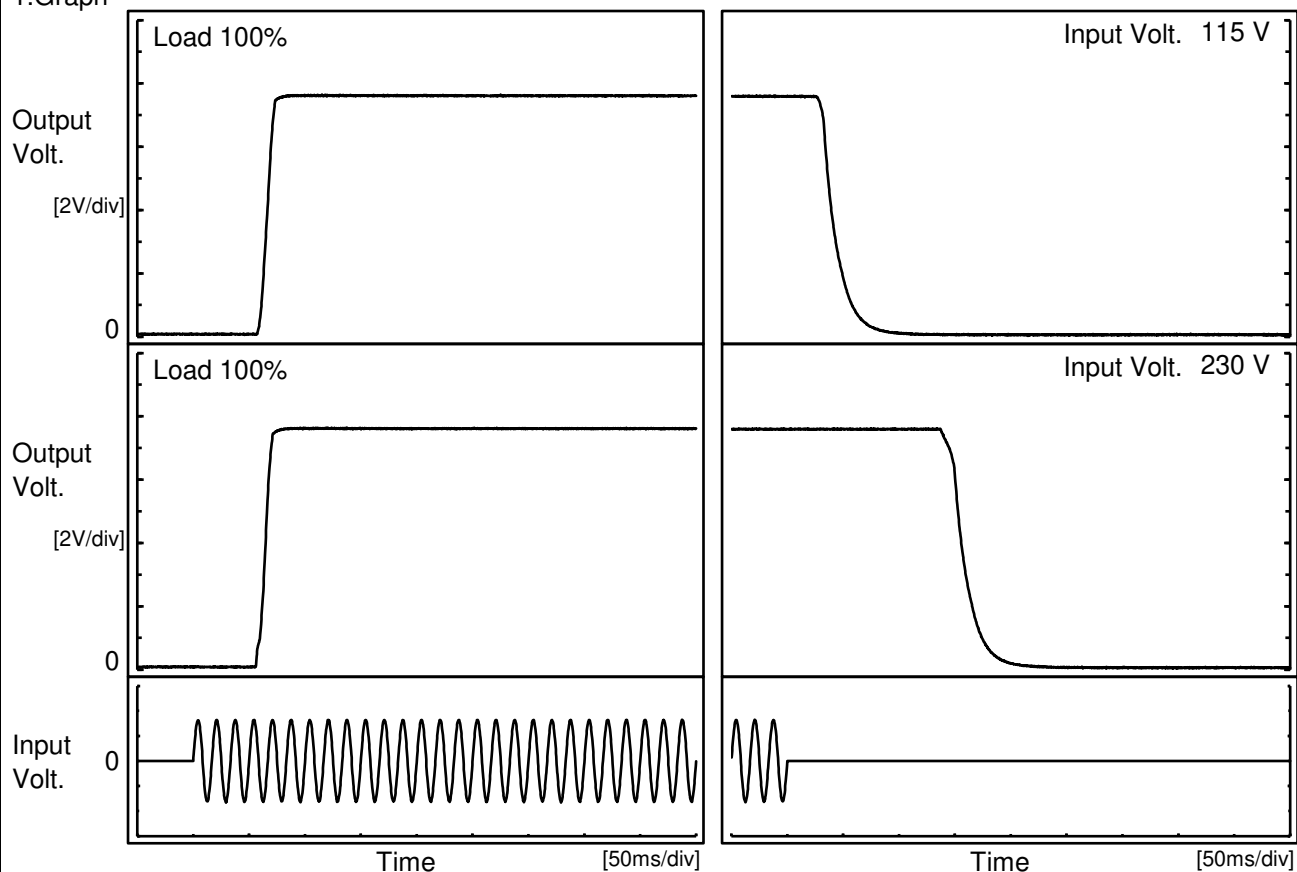
Model	PJA50F-15	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	+15V3.5A	



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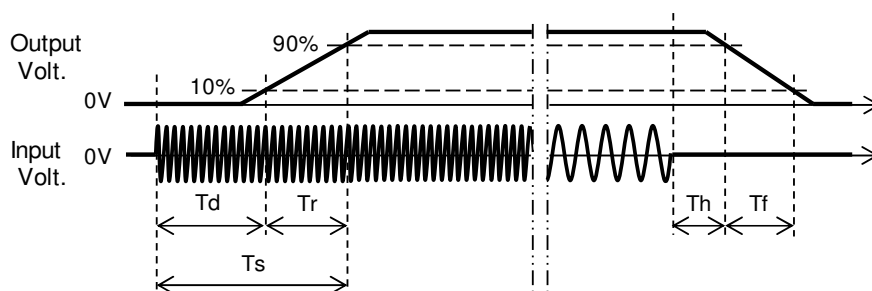
Model	PJA50F-15	Temperature 25°C Testing Circuitry Figure A
Item	Rise and Fall Time	
Object	+15V3.5A	

1.Graph



2.Values

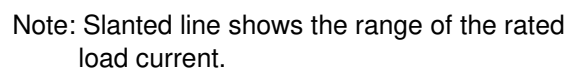
		[ms]				
Input Volt.	Time	Td	Tr	Ts	Th	Tf
115 V		60.5	11.0	71.5	32.5	28.5
230 V		58.5	10.8	69.3	146.8	30.5



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Model		PJA50F-15	Temperature Testing Circuitry	25°C Figure A																																
Item		Hold-Up Time																																		
Object		+15V3.5A																																		
1.Graph			2.Values																																	
---□--- Load 50% —△— Load 100% Hold-Up Time [ms] Input Voltage [V]			<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>33</td><td>13</td></tr><tr><td>100</td><td>48</td><td>20</td></tr><tr><td>115</td><td>66</td><td>29</td></tr><tr><td>200</td><td>219</td><td>98</td></tr><tr><td>230</td><td>294</td><td>140</td></tr><tr><td>264</td><td>396</td><td>188</td></tr><tr><td>280</td><td>449</td><td>215</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	33	13	100	48	20	115	66	29	200	219	98	230	294	140	264	396	188	280	449	215	--	-	-	--	-	-
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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.																																				

Temperature	25°C
Testing Circuitry	Figure A



Load Current [A]	Time [ms]		
	Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]
0.00	-	-	-
0.60	145	202	868
1.20	65	99	441
1.80	48	65	295
2.40	33	48	220
3.00	26	37	172
3.50	21	29	142
3.85	15	22	120
--	-	-	-
--	-	-	-
--	-	-	-

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Model	PJA50F-15																																											
Item	Overcurrent Protection	Temperature	25°C																																									
Object	+15V3.5A	Testing Circuitry	Figure A																																									
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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>4.74</td><td>4.65</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	4.74	4.65	14.25	-	-	13.50	-	-	12.00	-	-	10.50	-	-	9.00	-	-	7.50	-	-	6.00	-	-	4.50	-	-	3.00	-	-	1.50	-	-	0.00	-	-
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		Testing Circuitry Figure A	
Model	PJA50F-15		
Item	Ambient Temperature Drift		
Object	+15V3.5A		
1.Values Load 100%			
Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 100V	Input Volt. 115V	Input Volt. 230V
-10	15.113	15.113	15.114
25	15.150	15.149	15.150
50	15.149	15.150	15.150
Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A	
Object	+15V3.5A		
1.Values			
Ambient Temperature[°C]	Input Voltage [V]		
	Load 50%	Load 100%	
-10	33	61	
25	32	60	
50	32	59	
Item	Overvoltage Protection	Testing Circuitry Figure A	
Object	+15V3.5A		
1.Values Load 0%			
Ambient Temperature[°C]	Operating Point [V]		
	Input Volt. 115V	Input Volt. 230V	
-20	18.85	18.85	
25	19.55	19.55	
50	19.80	19.80	

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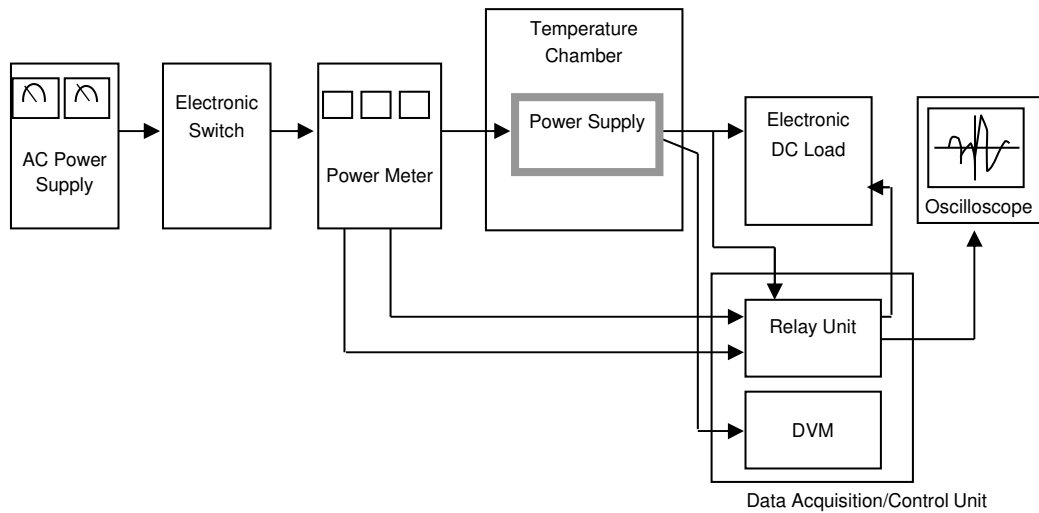


Figure A

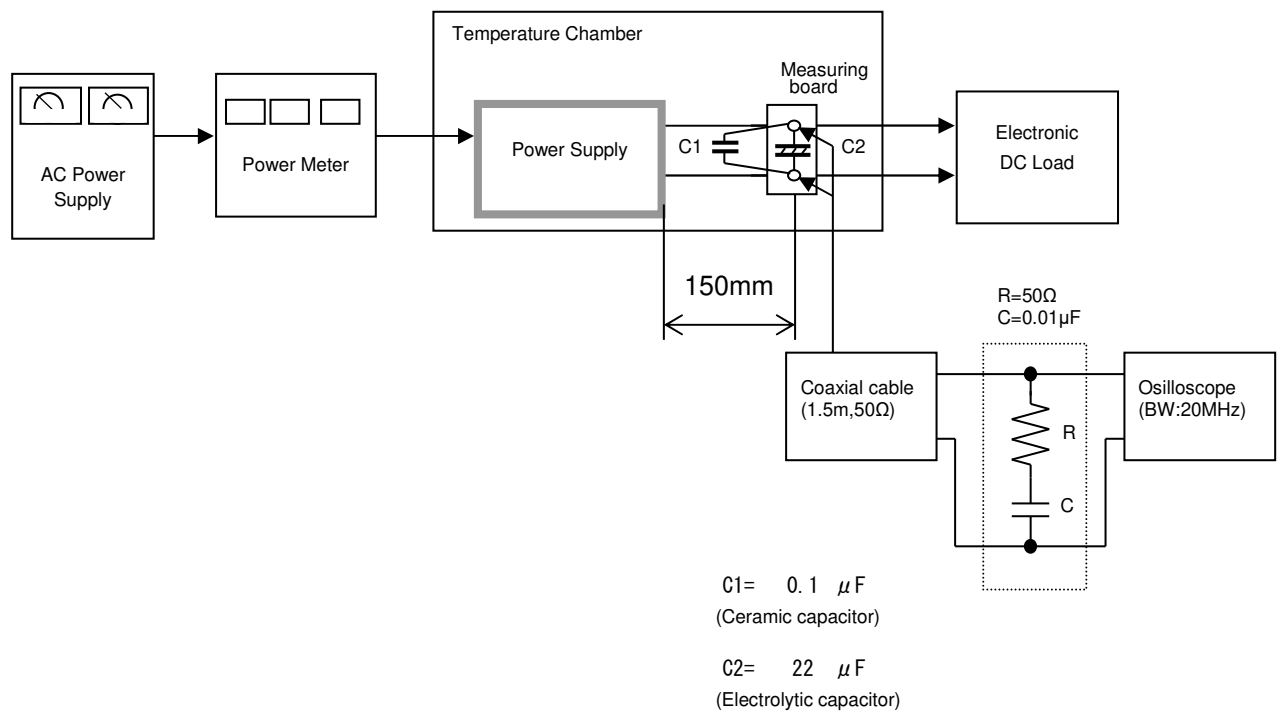


Figure B

