



TEST DATA OF PJA15F-24

Regulated DC Power Supply
May 26, 2026

Approved by : Yoshiaki Shimizu
Design Manager

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Design Engineer

COSEL CO.,LTD.

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(Final Page 15)

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Model	PJA15F-24	Temperature 25°C Testing Circuitry Figure A																																																				
Item	Input Current (by Load Current)																																																					
Object	_____																																																					
1.Graph		2.Values																																																				
—△— ---□--- -.-○-.- 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>0.010</td><td>0.009</td><td>0.008</td></tr><tr><td>0.10</td><td>0.066</td><td>0.061</td><td>0.038</td></tr><tr><td>0.20</td><td>0.117</td><td>0.105</td><td>0.066</td></tr><tr><td>0.30</td><td>0.163</td><td>0.147</td><td>0.093</td></tr><tr><td>0.40</td><td>0.208</td><td>0.187</td><td>0.115</td></tr><tr><td>0.50</td><td>0.253</td><td>0.228</td><td>0.140</td></tr><tr><td>0.60</td><td>0.297</td><td>0.267</td><td>0.163</td></tr><tr><td>0.70</td><td>0.341</td><td>0.306</td><td>0.188</td></tr><tr><td>0.77</td><td>0.373</td><td>0.334</td><td>0.204</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	0.010	0.009	0.008	0.10	0.066	0.061	0.038	0.20	0.117	0.105	0.066	0.30	0.163	0.147	0.093	0.40	0.208	0.187	0.115	0.50	0.253	0.228	0.140	0.60	0.297	0.267	0.163	0.70	0.341	0.306	0.188	0.77	0.373	0.334	0.204	--	-	-	-	--	-	-	-
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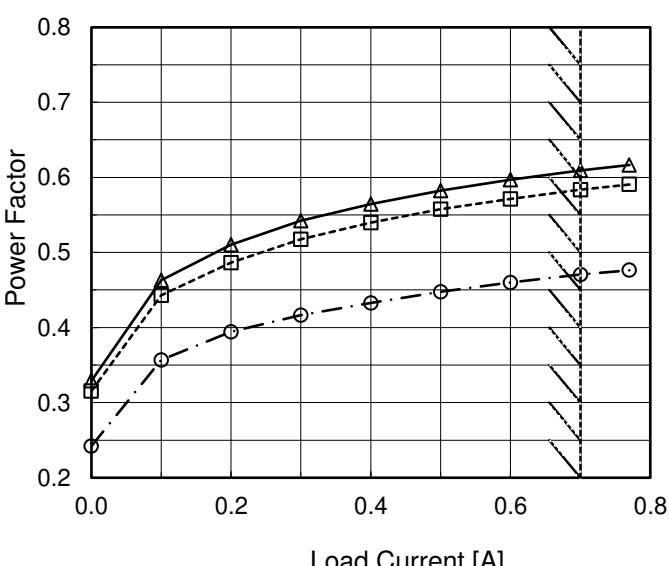
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—△— Input Volt. 100V ---□--- Input Volt. 115V ---○--- Input Volt. 230V Efficiency [%] 100 90 80 70 60 50 0.0 0.2 0.4 0.6 0.8 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.77 0.00 0.10 0.20 0.30 0.40 0.50 0.60 0.70 0.77 -- -- Note: Slanted line shows the range of the rated load current.		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Efficiency [%]</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>0.10</td><td>79.1</td><td>78.5</td><td>77.0</td></tr><tr><td>0.20</td><td>81.5</td><td>83.2</td><td>81.1</td></tr><tr><td>0.30</td><td>82.5</td><td>83.6</td><td>81.7</td></tr><tr><td>0.40</td><td>82.9</td><td>84.0</td><td>85.1</td></tr><tr><td>0.50</td><td>82.7</td><td>83.3</td><td>84.7</td></tr><tr><td>0.60</td><td>82.5</td><td>83.3</td><td>84.8</td></tr><tr><td>0.70</td><td>82.2</td><td>83.1</td><td>84.0</td></tr><tr><td>0.77</td><td>81.8</td><td>82.9</td><td>84.0</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]	Efficiency [%]			Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]	0.00	-	-	-	0.10	79.1	78.5	77.0	0.20	81.5	83.2	81.1	0.30	82.5	83.6	81.7	0.40	82.9	84.0	85.1	0.50	82.7	83.3	84.7	0.60	82.5	83.3	84.8	0.70	82.2	83.1	84.0	0.77	81.8	82.9	84.0	--	-	-	-	--	-	-	-
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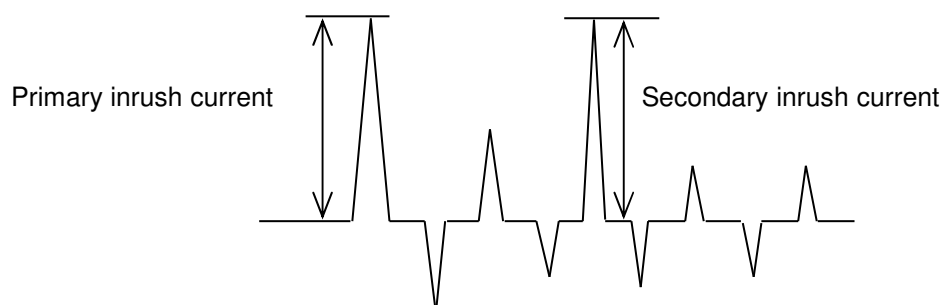
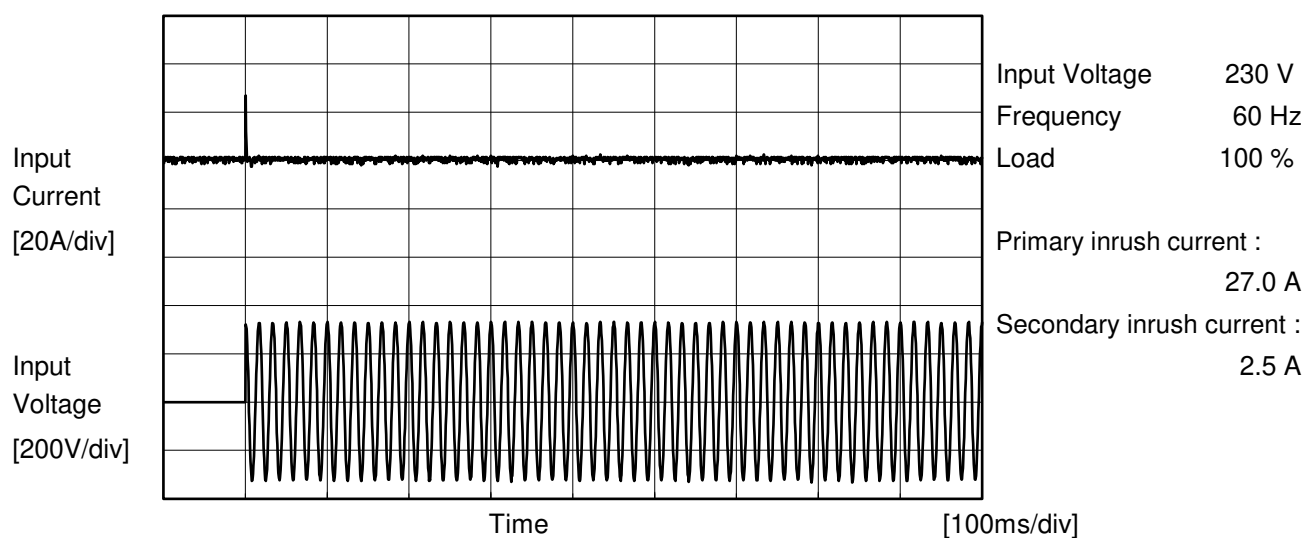
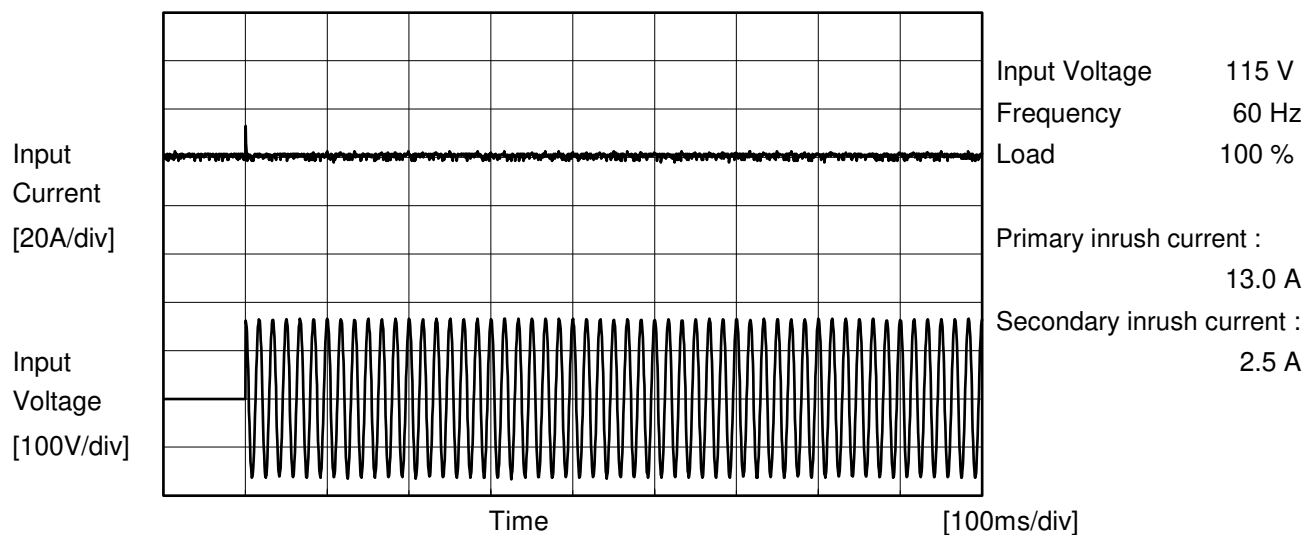
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Model	PJA15F-24	Temperature	25°C
Item	Inrush Current	Testing Circuitry	Figure A
Object	_____		





COSEL		Temperature 25°C Testing Circuitry Figure C
Model	PJA15F-24	
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	0.06	0.07	0.17	Operation
		One of phases	0.09	0.11	0.25	Stand by
IEC62368-1	Figure C-2	Both phases	0.06	0.08	0.16	Operation
		One of phases	0.10	0.11	0.24	Stand by
	Figure C-3	Both phases	0.06	0.07	0.16	Operation
		One of phases	0.09	0.11	0.24	Stand by

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

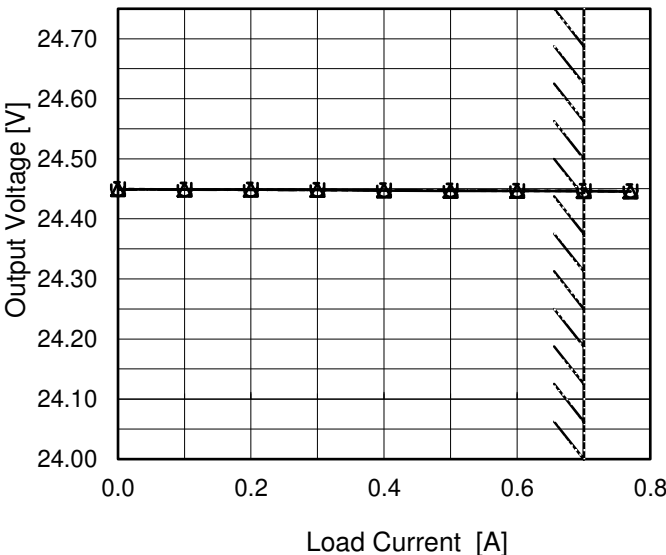
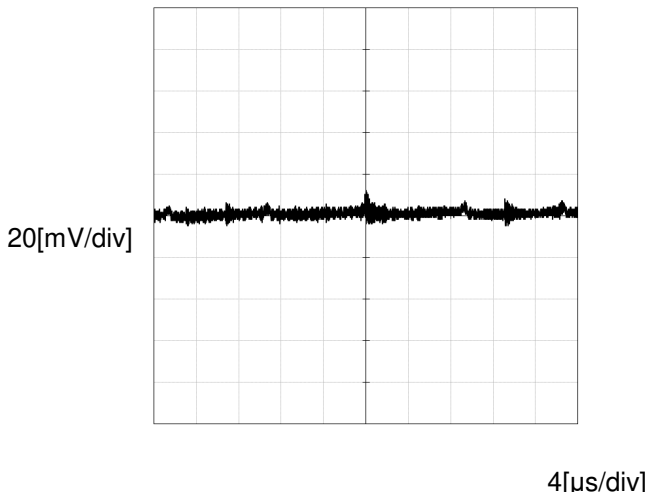
2.Condition

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

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Model	PJA15F-24	Temperature Testing Circuitry	25°C Figure A																																
Item	Line Regulation																																		
Object	+24V0.7A																																		
1.Graph		2.Values																																	
--- □ --- Load 50% — △ — Load 100% Output Voltage [V] 24.70 24.60 24.50 24.40 24.30 24.20 24.10 24.00 50 100 150 200 250 300 Input Voltage [V] 50 100 150 200 250 300 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>24.447</td><td>24.445</td></tr><tr><td>100</td><td>24.448</td><td>24.446</td></tr><tr><td>115</td><td>24.447</td><td>24.446</td></tr><tr><td>200</td><td>24.447</td><td>24.446</td></tr><tr><td>230</td><td>24.447</td><td>24.447</td></tr><tr><td>264</td><td>24.448</td><td>24.447</td></tr><tr><td>280</td><td>24.448</td><td>24.447</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	24.447	24.445	100	24.448	24.446	115	24.447	24.446	200	24.447	24.446	230	24.447	24.447	264	24.448	24.447	280	24.448	24.447	--	-	-	--	-	-
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Item	Ripple-Noise	Temperature	25°C																																																			
Object	+24V0.7A	Testing Circuitry	Figure B																																																			
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Input Voltage 230V Load 100%  20[mV/div] 4[μs/div]																																																						

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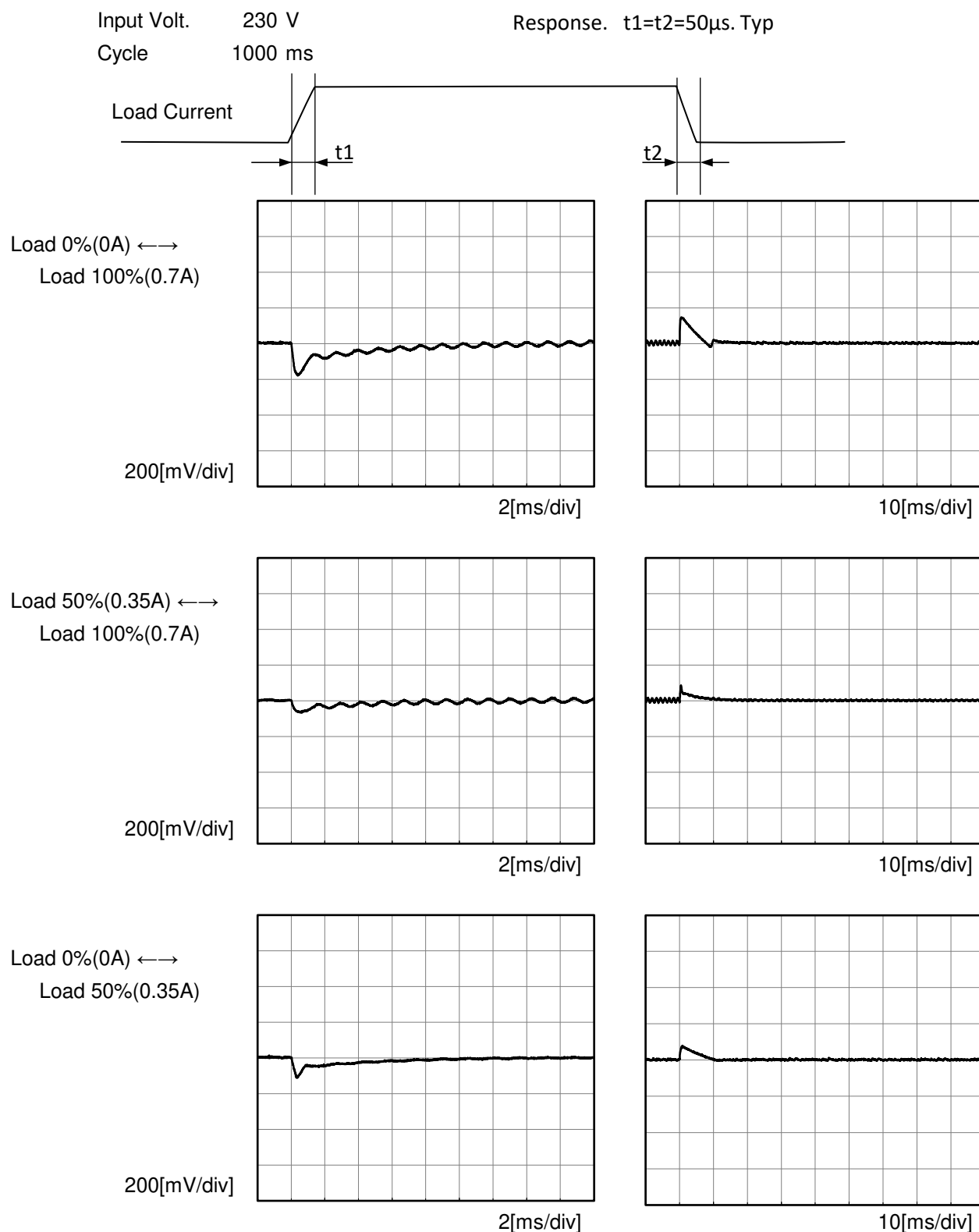
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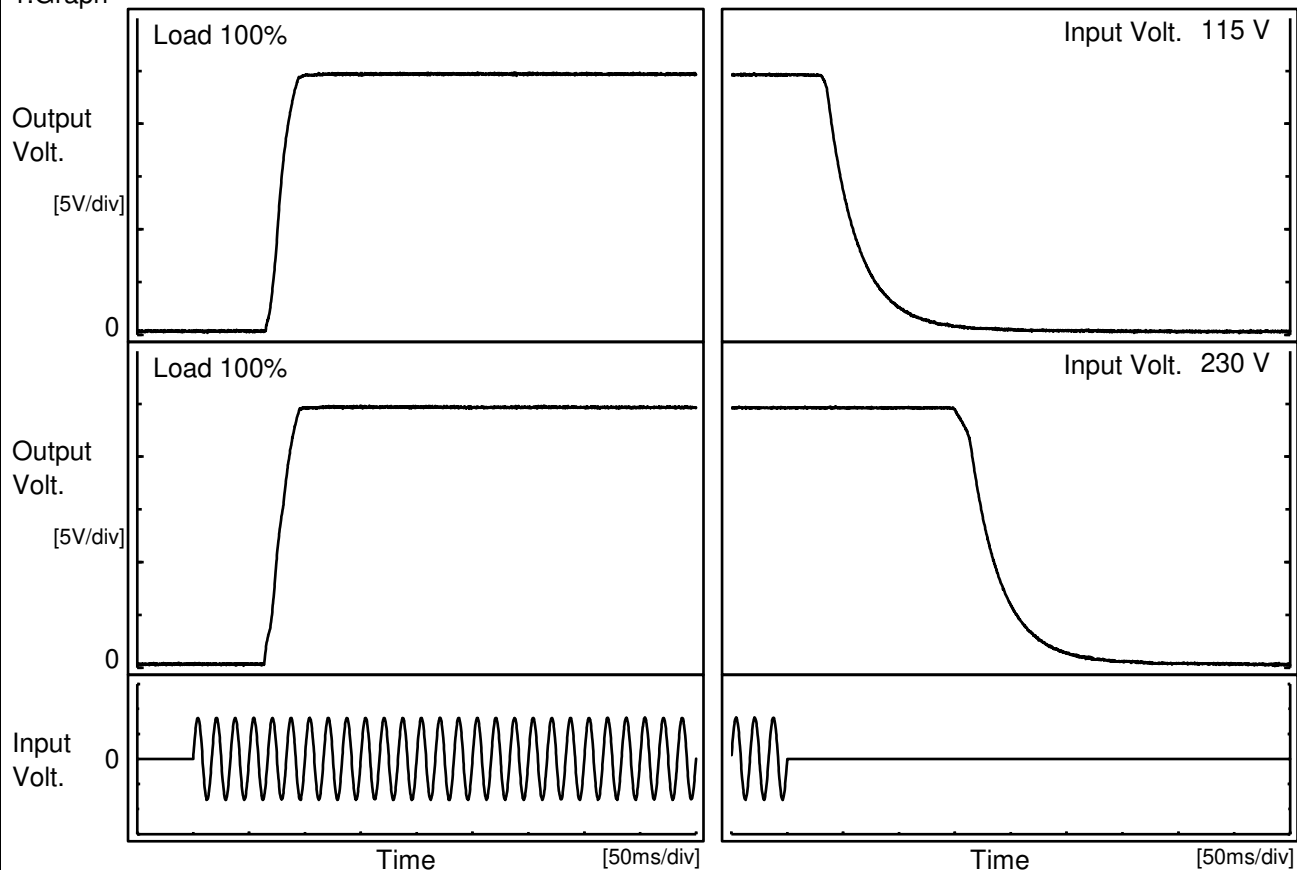
Model	PJA15F-24	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	+24V0.7A	



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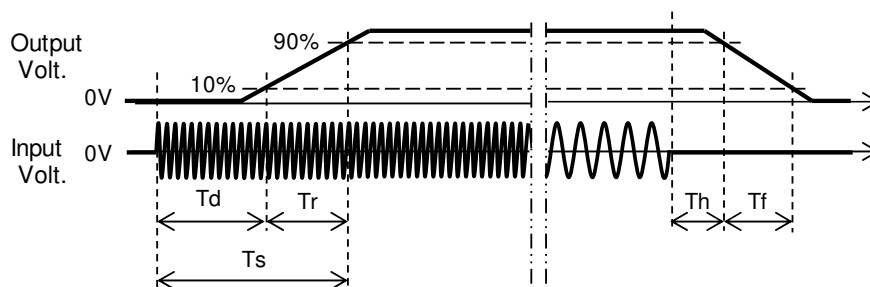
Model	PJA15F-24	Temperature 25°C Testing Circuitry Figure A
Item	Rise and Fall Time	
Object	+24V0.7A	

1.Graph



2.Values

		[ms]				
Input Volt.	Time	Td	Tr	Ts	Th	Tf
115 V		69.3	19.0	88.3	37.3	63.5
230 V		66.5	22.3	88.8	162.5	63.5



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Model	PJA15F-24		
Item	Hold-Up Time	Temperature	25°C
		Testing Circuitry	Figure A
Object	+24V0.7A		
1.Graph		2.Values	
Hold-Up Time [ms] <			

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Model	PJA15F-24																																																					
Item	Instantaneous Interruption Compensation	Temperature	25°C																																																			
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Object	+24V0.7A	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>24.0</td><td>0.96</td><td>0.96</td></tr><tr><td>22.8</td><td>-</td><td>-</td></tr><tr><td>21.6</td><td>-</td><td>-</td></tr><tr><td>19.2</td><td>-</td><td>-</td></tr><tr><td>16.8</td><td>-</td><td>-</td></tr><tr><td>14.4</td><td>-</td><td>-</td></tr><tr><td>12.0</td><td>-</td><td>-</td></tr><tr><td>9.6</td><td>-</td><td>-</td></tr><tr><td>7.2</td><td>-</td><td>-</td></tr><tr><td>4.8</td><td>-</td><td>-</td></tr><tr><td>2.4</td><td>-</td><td>-</td></tr><tr><td>0.0</td><td>-</td><td>-</td></tr></table>		Output Voltage [V]	Load Current [A]		Input Volt. 115[V]	Input Volt. 230[V]	24.0	0.96	0.96	22.8	-	-	21.6	-	-	19.2	-	-	16.8	-	-	14.4	-	-	12.0	-	-	9.6	-	-	7.2	-	-	4.8	-	-	2.4	-	-	0.0	-	-
Output Voltage [V]	Load Current [A]																																											
	Input Volt. 115[V]	Input Volt. 230[V]																																										
24.0	0.96	0.96																																										
22.8	-	-																																										
21.6	-	-																																										
19.2	-	-																																										
16.8	-	-																																										
14.4	-	-																																										
12.0	-	-																																										
9.6	-	-																																										
7.2	-	-																																										
4.8	-	-																																										
2.4	-	-																																										
0.0	-	-																																										



Model		PJA15F-24	Testing Circuitry Figure A	
Item		Ambient Temperature Drift		
Object		+24V0.7A		
1.Values		Load 100%		
Ambient Temperature[°C]		Output Voltage [V]		
		Input Volt. 100V	Input Volt. 115V	Input Volt. 230V
-10		24.418	24.418	24.418
25		24.451	24.451	24.451
50		24.454	24.454	24.454

Item		Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A	
Object		+24V0.7A		
1.Values				
Ambient Temperature[°C]		Input Voltage [V]		
		Load 50%	Load 100%	
-10		31	62	
25		31	58	
50		31	55	

Item		Overvoltage Protection	Testing Circuitry Figure A	
Object		+24V0.7A		
1.Values		Load 0%		
Ambient Temperature[°C]		Operating Point [V]		
		Input Volt. 115V	Input Volt. 230V	
-20		30.29	30.29	
25		31.57	31.57	
50		32.25	32.25	

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BC-12236

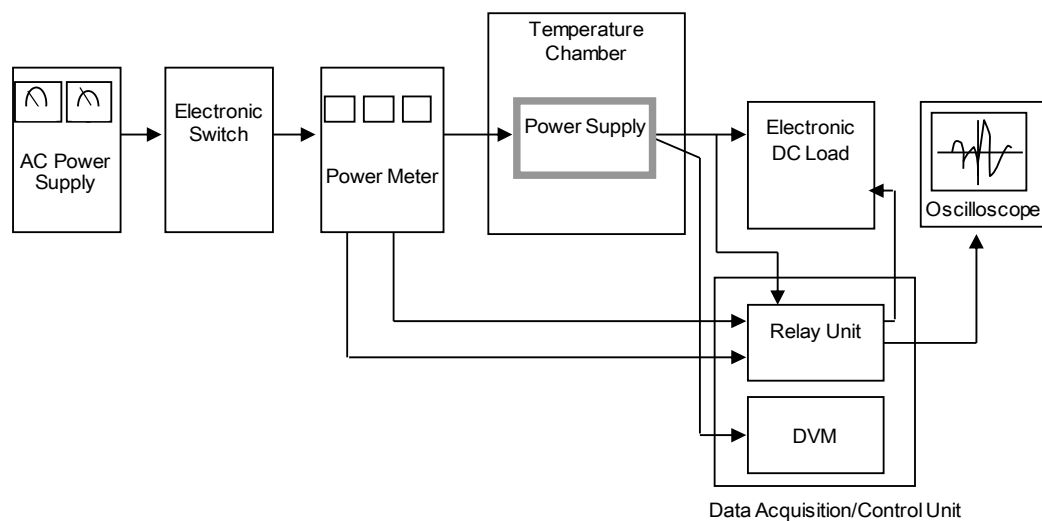
COSEL

Figure A

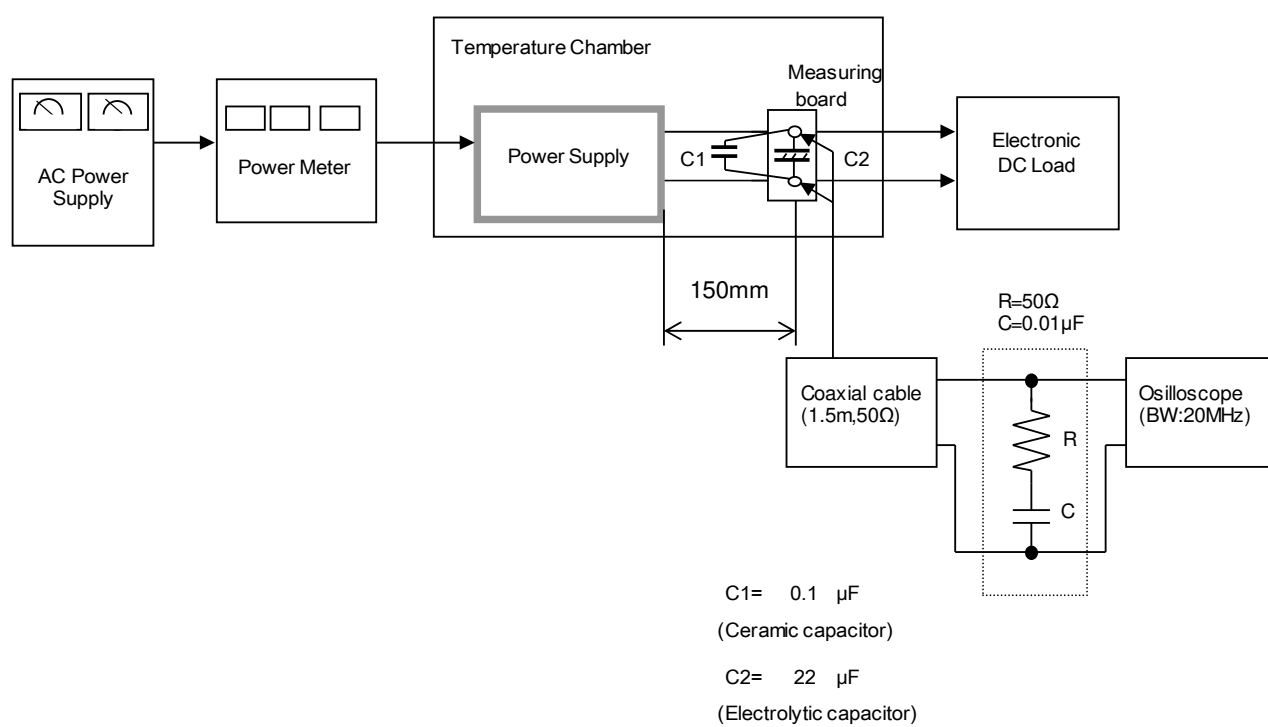


Figure B

