



TEST DATA OF PJA15F-15

Regulated DC Power Supply
May 26, 2026

Approved by : Yoshiaki Shimizu
Design Manager

Prepared by : Yeongjun Lee
Design Engineer

COSEL CO.,LTD.

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Item	Input Current (by Load Current)	Temperature	25°C																																																			
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—△— Input Volt. 100V ---□--- Input Volt. 115V -·-○-·- Input Volt. 230V 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>0.0</td><td>0.010</td><td>0.009</td><td>0.008</td></tr><tr><td>0.2</td><td>0.082</td><td>0.074</td><td>0.047</td></tr><tr><td>0.4</td><td>0.142</td><td>0.129</td><td>0.081</td></tr><tr><td>0.6</td><td>0.199</td><td>0.180</td><td>0.111</td></tr><tr><td>0.8</td><td>0.256</td><td>0.231</td><td>0.142</td></tr><tr><td>1.0</td><td>0.312</td><td>0.280</td><td>0.171</td></tr><tr><td>1.1</td><td>0.341</td><td>0.306</td><td>0.186</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	0.010	0.009	0.008	0.2	0.082	0.074	0.047	0.4	0.142	0.129	0.081	0.6	0.199	0.180	0.111	0.8	0.256	0.231	0.142	1.0	0.312	0.280	0.171	1.1	0.341	0.306	0.186	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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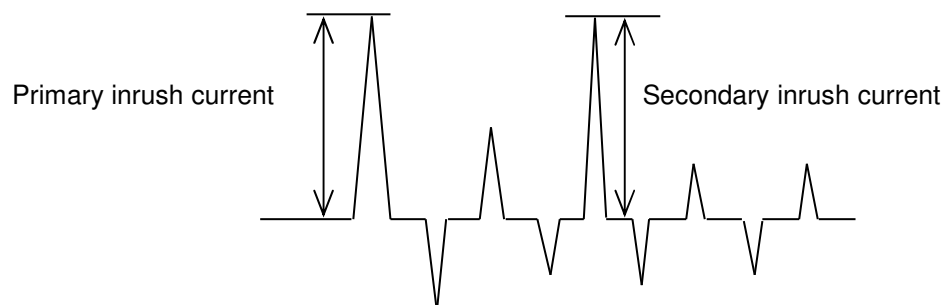
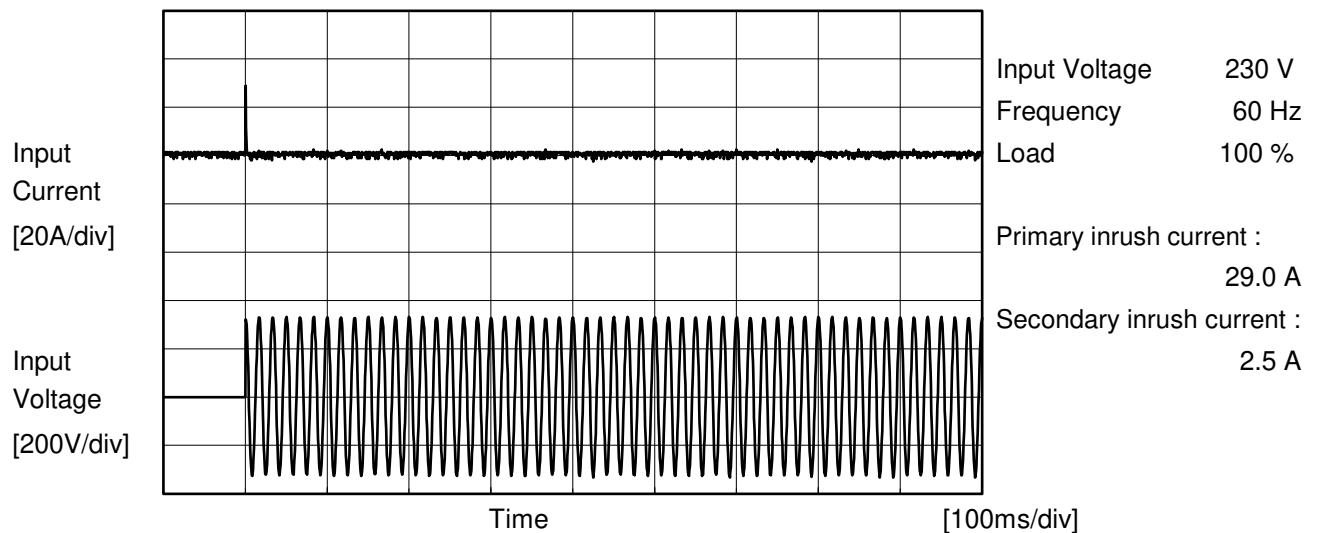
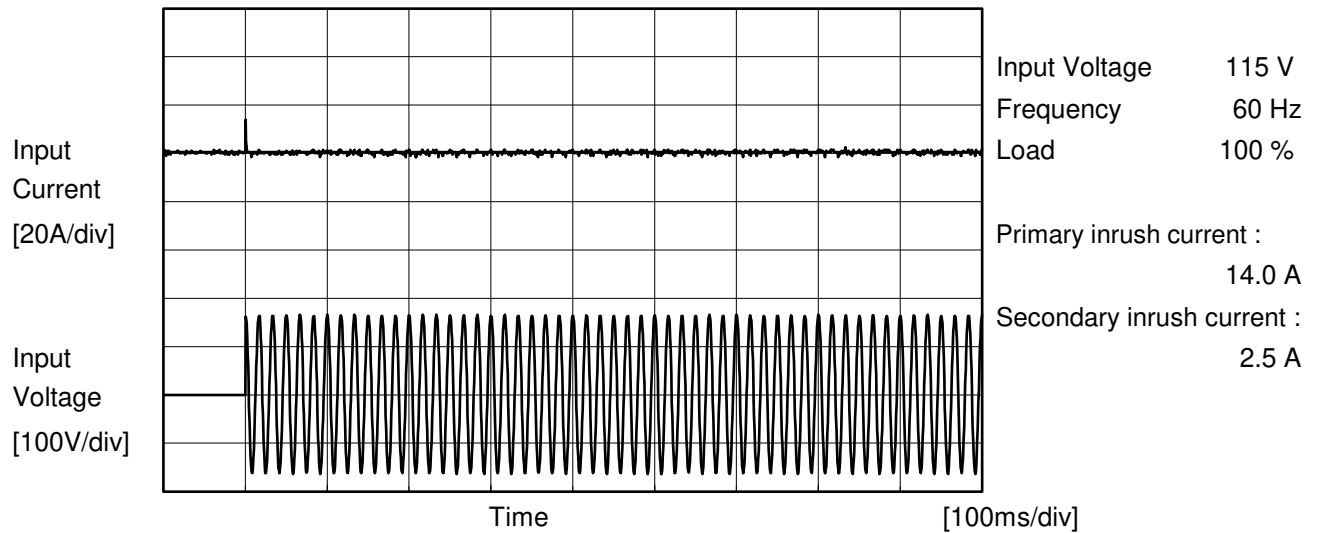
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Model	PJA15F-15	Temperature	25°C
Item	Inrush Current	Testing Circuitry	Figure A
Object	_____		





COSEL		Temperature 25°C Testing Circuitry Figure C
Model	PJA15F-15	
Item	Leakage Current	
Object	_____	

1.Results

[mA]

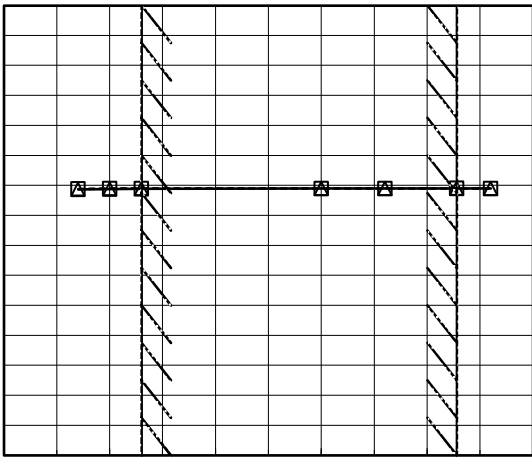
Standards	Testing Circuitry	Measuring Method	Input Volt.			Note
			100 [V]	115 [V]	230 [V]	
DEN-AN	Figure C-1	Both phases	0.06	0.07	0.17	Operation
		One of phases	0.09	0.11	0.25	Stand by
IEC62368-1	Figure C-2	Both phases	0.06	0.08	0.16	Operation
		One of phases	0.10	0.11	0.24	Stand by
	Figure C-3	Both 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.

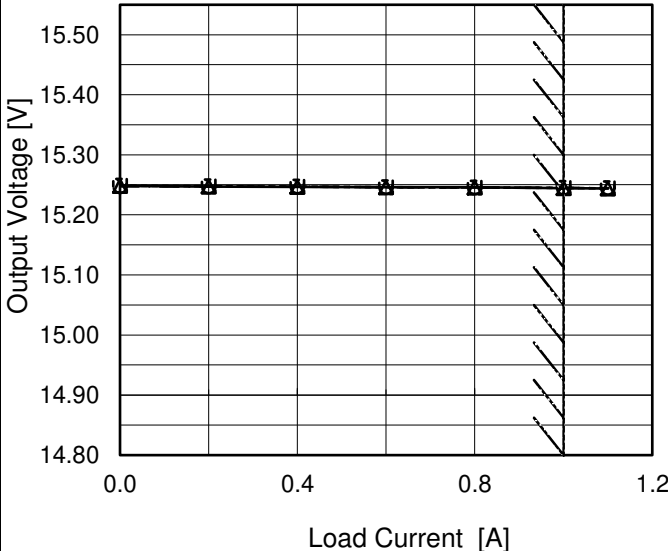
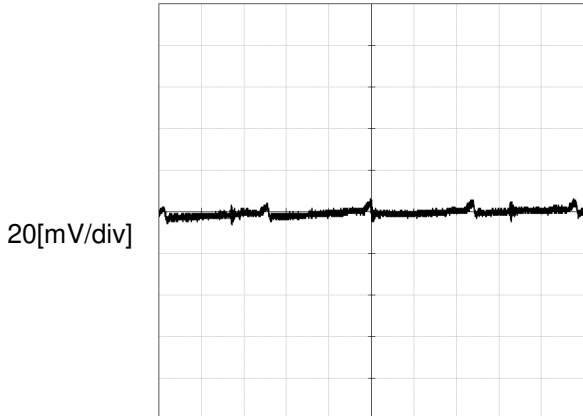
2.Condition

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

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Item	Line Regulation	Temperature	25°C																																
Object	+15V1A	Testing Circuitry	Figure A																																
1.Graph		2.Values																																	
--- □ --- Load 50% — △ — Load 100% Output Voltage [V] 15.50 15.40 15.30 15.20 15.10 15.00 14.90 14.80 50 100 150 200 250 300 Input Voltage [V] 50 100 150 200 250 300 		<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>15.244</td><td>15.243</td></tr><tr><td>100</td><td>15.245</td><td>15.244</td></tr><tr><td>115</td><td>15.245</td><td>15.244</td></tr><tr><td>200</td><td>15.245</td><td>15.245</td></tr><tr><td>230</td><td>15.245</td><td>15.245</td></tr><tr><td>264</td><td>15.245</td><td>15.245</td></tr><tr><td>280</td><td>15.245</td><td>15.245</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	15.244	15.243	100	15.245	15.244	115	15.245	15.244	200	15.245	15.245	230	15.245	15.245	264	15.245	15.245	280	15.245	15.245	--	-	-	--	-	-
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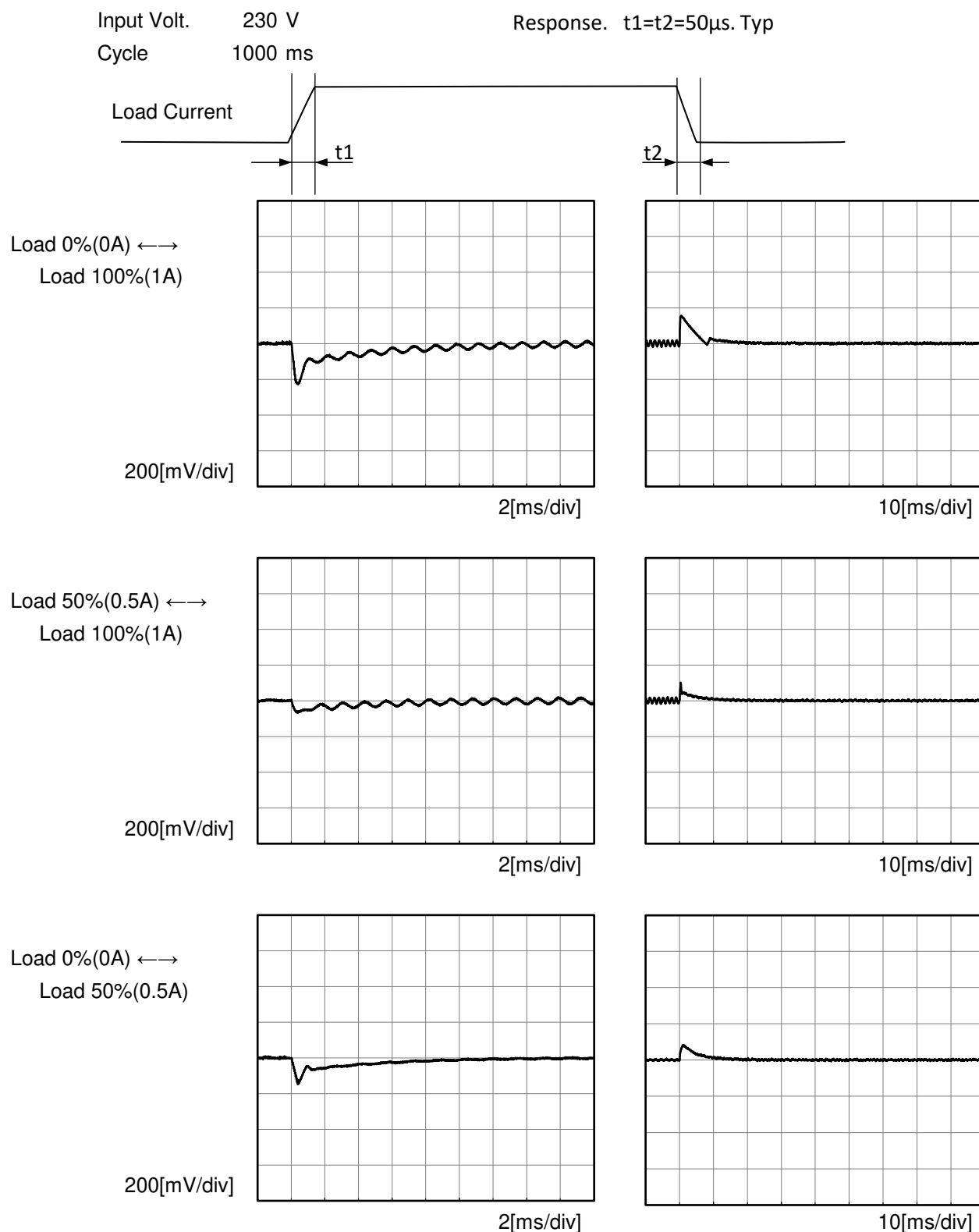
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Item	Ripple-Noise	Temperature	25°C																																																			
Object	+15V1A	Testing Circuitry	Figure B																																																			
1.Graph Input Voltage230V Load100%  20[mV/div] 4[μs/div]																																																						

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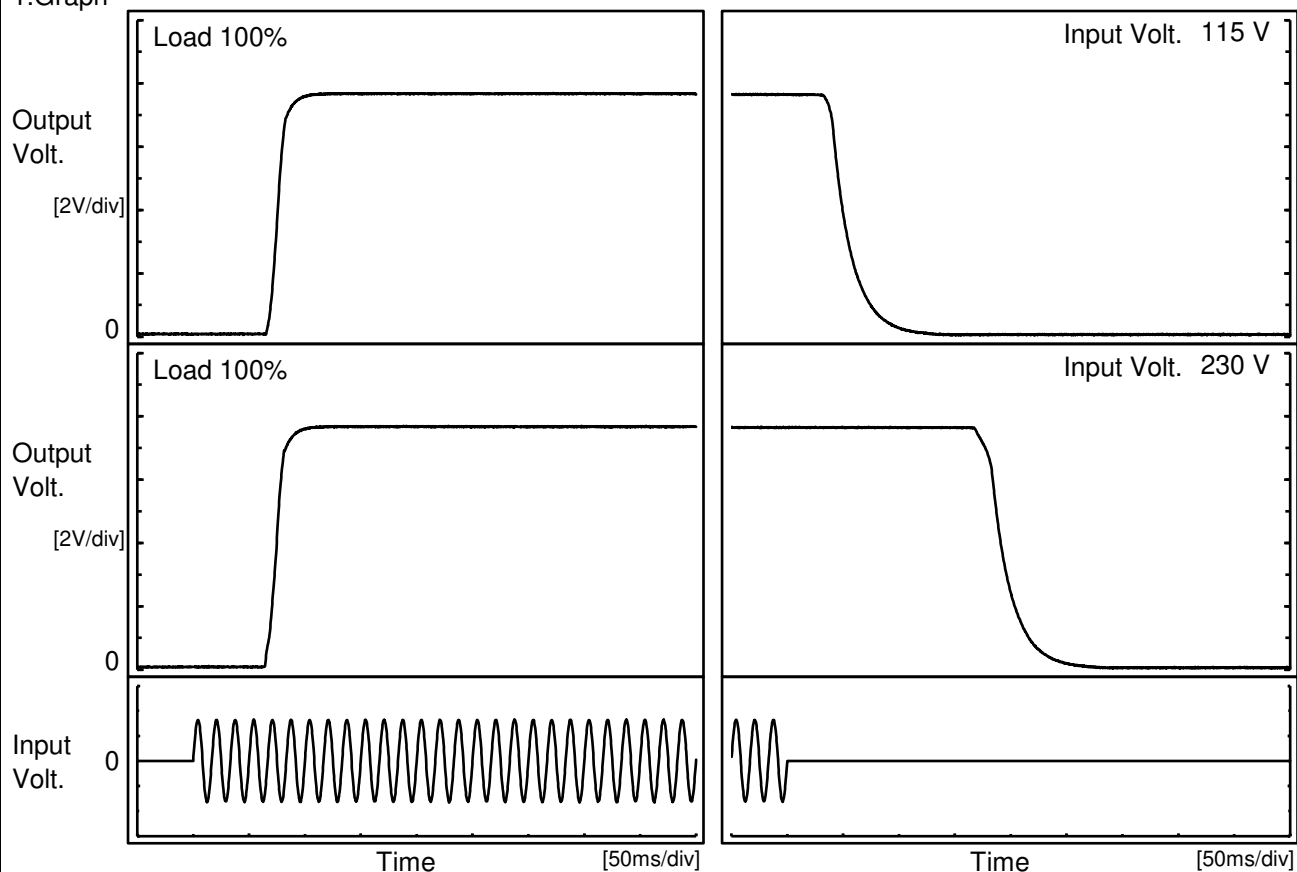
Model	PJA15F-15	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	+15V1A	



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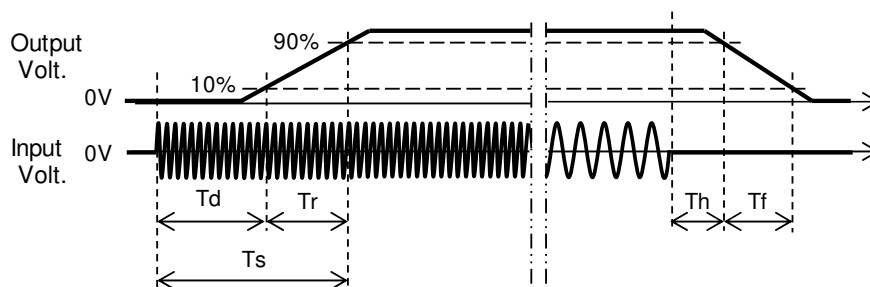
Model	PJA15F-15	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+15V1A		

1.Graph



2.Values

Input Volt.	Time	Td	Tr	Ts	Th	Tf
115 V		68.8	13.5	82.3	40.3	38.5
230 V		66.8	14.3	81.1	179.5	41.0



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-----□----- Load 50% -----△----- Load 100% The graph shows Hold-Up Time [ms] on a logarithmic y-axis (1 to 1000) versus Input Voltage [V] on a linear x-axis (50 to 300). Two curves are plotted: a dashed line with square markers for Load 50% and a solid line with triangle markers for Load 100%. Both curves show an increasing trend. Vertical dashed lines indicate the range of rated input voltage, with slanted lines showing the range of the rated input voltage. <table><thead><tr><th>Input Voltage [V]</th><th>Hold-Up Time [ms] (Load 50%)</th><th>Hold-Up Time [ms] (Load 100%)</th></tr></thead><tbody><tr><td>85</td><td>42</td><td>16</td></tr><tr><td>100</td><td>61</td><td>24</td></tr><tr><td>115</td><td>83</td><td>35</td></tr><tr><td>200</td><td>271</td><td>125</td></tr><tr><td>230</td><td>363</td><td>169</td></tr><tr><td>264</td><td>485</td><td>231</td></tr><tr><td>280</td><td>548</td><td>266</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table>		Input Voltage [V]	Hold-Up Time [ms] (Load 50%)	Hold-Up Time [ms] (Load 100%)	85	42	16	100	61	24	115	83	35	200	271	125	230	363	169	264	485	231	280	548	266	--	-	-	--	-	-	<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>42</td><td>16</td></tr><tr><td>100</td><td>61</td><td>24</td></tr><tr><td>115</td><td>83</td><td>35</td></tr><tr><td>200</td><td>271</td><td>125</td></tr><tr><td>230</td><td>363</td><td>169</td></tr><tr><td>264</td><td>485</td><td>231</td></tr><tr><td>280</td><td>548</td><td>266</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table>		Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	85	42	16	100	61	24	115	83	35	200	271	125	230	363	169	264	485	231	280	548	266	--	-	-	--	-	-
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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.																																																																	

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—△— Input Volt. 100V ---□--- Input Volt. 115V -.-○-.- Input Volt. 230V Instantaneous Compensation Time [ms] Load Current [A]			<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [ms]</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>-</td><td>-</td><td>-</td></tr><tr><td>0.2</td><td>153</td><td>205</td><td>1260</td></tr><tr><td>0.4</td><td>77</td><td>103</td><td>795</td></tr><tr><td>0.6</td><td>47</td><td>68</td><td>304</td></tr><tr><td>0.8</td><td>35</td><td>48</td><td>224</td></tr><tr><td>1.0</td><td>22</td><td>32</td><td>171</td></tr><tr><td>1.1</td><td>19</td><td>27</td><td>145</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]	Time [ms]			Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]	0.0	-	-	-	0.2	153	205	1260	0.4	77	103	795	0.6	47	68	304	0.8	35	48	224	1.0	22	32	171	1.1	19	27	145	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																							
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Note: Slanted line shows the range of the rated load current.																																																								

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Model	PJA15F-15																																											
Item	Overcurrent Protection	Temperature	25°C																																									
Object	+15V1A	Testing Circuitry	Figure A																																									
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>1.35</td><td>1.37</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	1.35	1.37	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]																																											
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0.00	-	-																																										

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		Testing Circuitry Figure A	
Model	PJA15F-15		
Item	Ambient Temperature Drift		
Object	+15V1A		
1.Values Load 100%			
Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 100V	Input Volt. 115V	Input Volt. 230V
-10	15.217	15.217	15.218
25	15.247	15.248	15.248
50	15.253	15.253	15.253
Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A	
Object	+15V1A		
1.Values			
Ambient Temperature[°C]	Input Voltage [V]		
	Load 50%	Load 100%	
-10	32	63	
25	31	61	
50	31	59	
Item	Overvoltage Protection	Testing Circuitry Figure A	
Object	+15V1A		
1.Values Load 0%			
Ambient Temperature[°C]	Operating Point [V]		
	Input Volt. 115V	Input Volt. 230V	
-20	18.86	18.86	
25	19.47	19.47	
50	19.81	19.81	

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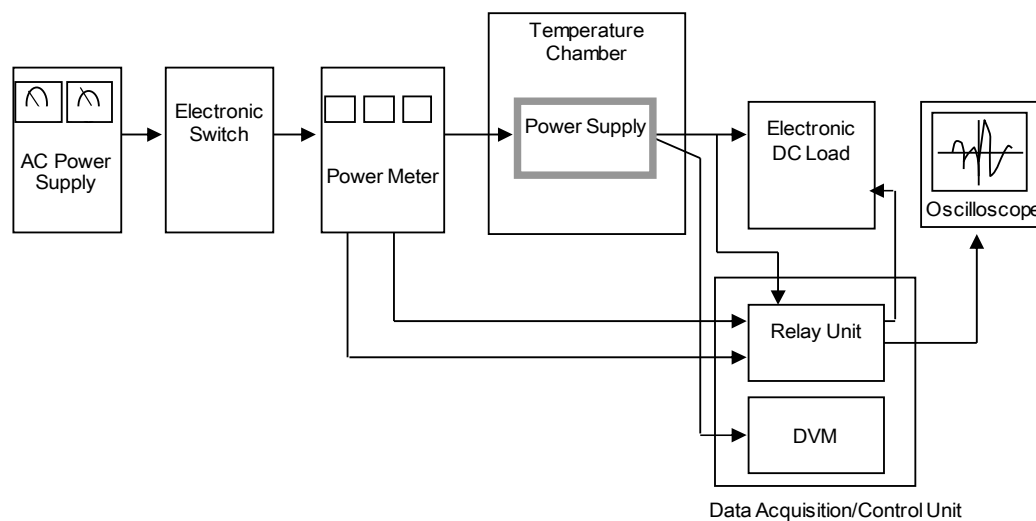


Figure A

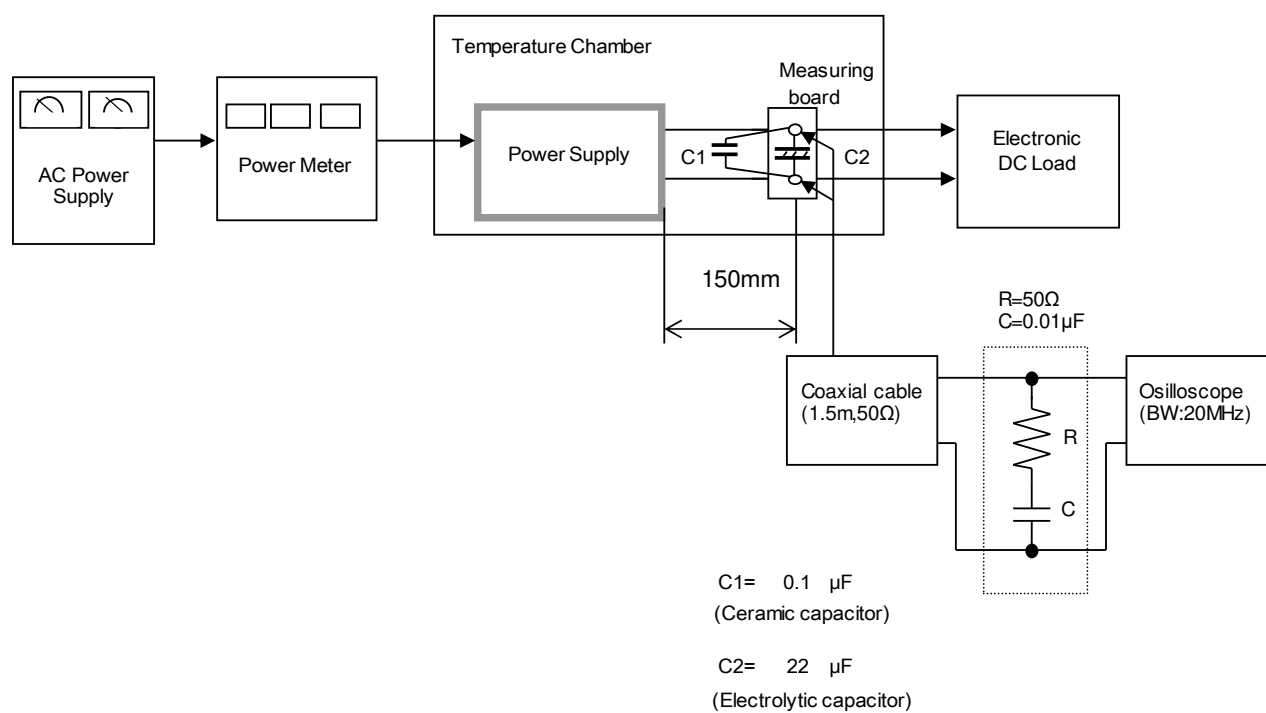


Figure B

