

TEST DATA OF PJA30F-12

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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(Final Page 15)

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Model		PJA30F-12	Temperature		25°C																																																			
Item		Input Current (by Load Current)	Testing Circuitry		Figure A																																																			
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>0.018</td><td>0.018</td><td>0.021</td></tr><tr><td>0.40</td><td>0.125</td><td>0.115</td><td>0.075</td></tr><tr><td>0.80</td><td>0.223</td><td>0.200</td><td>0.129</td></tr><tr><td>1.20</td><td>0.317</td><td>0.281</td><td>0.177</td></tr><tr><td>1.60</td><td>0.408</td><td>0.370</td><td>0.225</td></tr><tr><td>2.00</td><td>0.508</td><td>0.451</td><td>0.273</td></tr><tr><td>2.40</td><td>0.605</td><td>0.541</td><td>0.325</td></tr><tr><td>2.50</td><td>0.630</td><td>0.564</td><td>0.337</td></tr><tr><td>2.75</td><td>0.688</td><td>0.616</td><td>0.363</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	0.018	0.018	0.021	0.40	0.125	0.115	0.075	0.80	0.223	0.200	0.129	1.20	0.317	0.281	0.177	1.60	0.408	0.370	0.225	2.00	0.508	0.451	0.273	2.40	0.605	0.541	0.325	2.50	0.630	0.564	0.337	2.75	0.688	0.616	0.363	--	-	-	-	--	-	-	-
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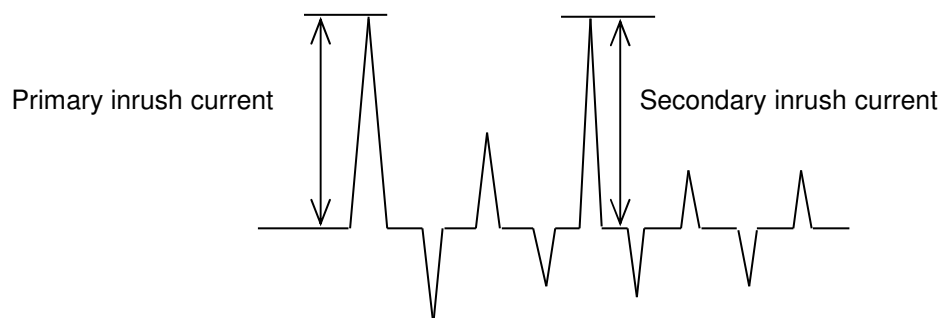
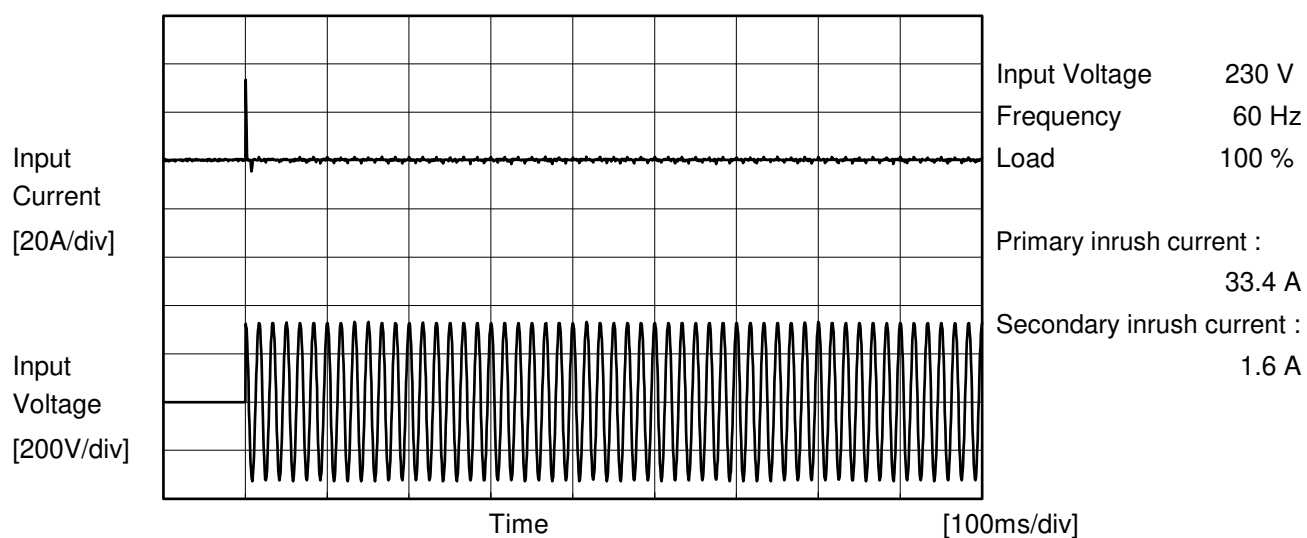
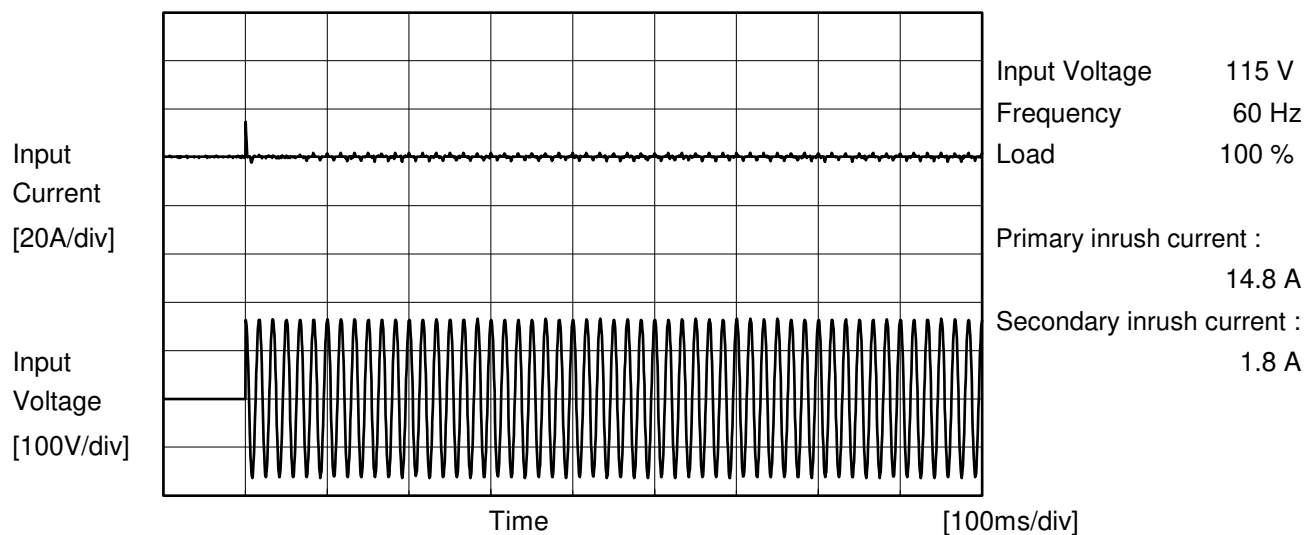
Model		PJA30F-12		Temperature 25°C																																																		
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Note: Slanted line shows the range of the rated load current.																																																						

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Model	PJA30F-12	Temperature	25°C
Item	Inrush Current	Testing Circuitry	Figure A
Object	_____		





Model		PJA30F-12	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

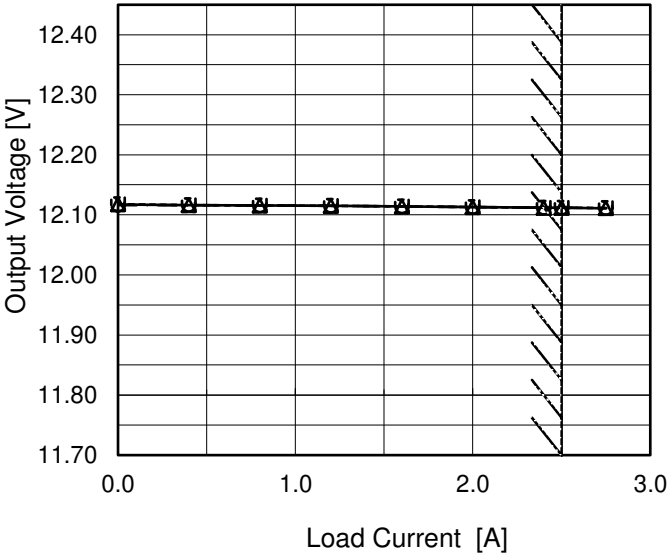
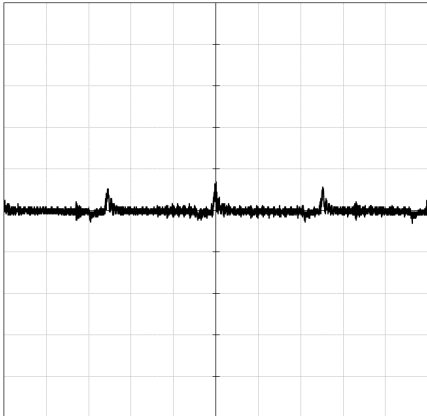
The value for "One of phases" is the reference value only.

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-12	Temperature	25°C
Item	Line Regulation	Testing Circuitry	Figure A
Object	+12V2.5A		
1.Graph		2.Values	
Load 50% Load 100% Output Voltage [V] 12.40 12.30 12.20 12.10 12.00 11.90 11.80 11.70 50 100 150 200 250 300 Input Voltage [V] </			

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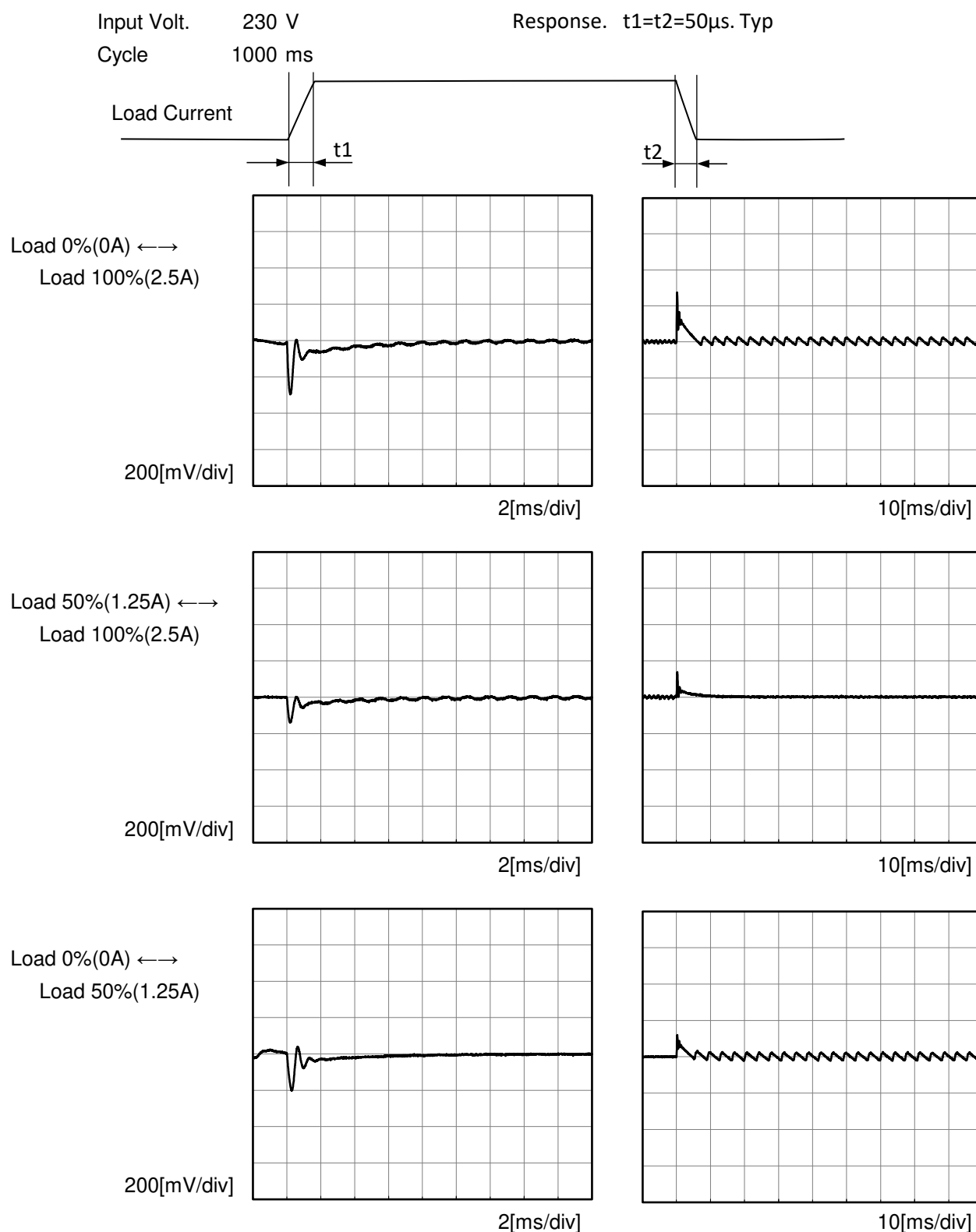
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Item		Ripple-Noise		Temperature 25°C																																																				
Object		+12V2.5A		Testing Circuitry Figure B																																																				
1.Graph		Input Voltage230V Load100%  20[mV/div] 4[μs/div]																																																						

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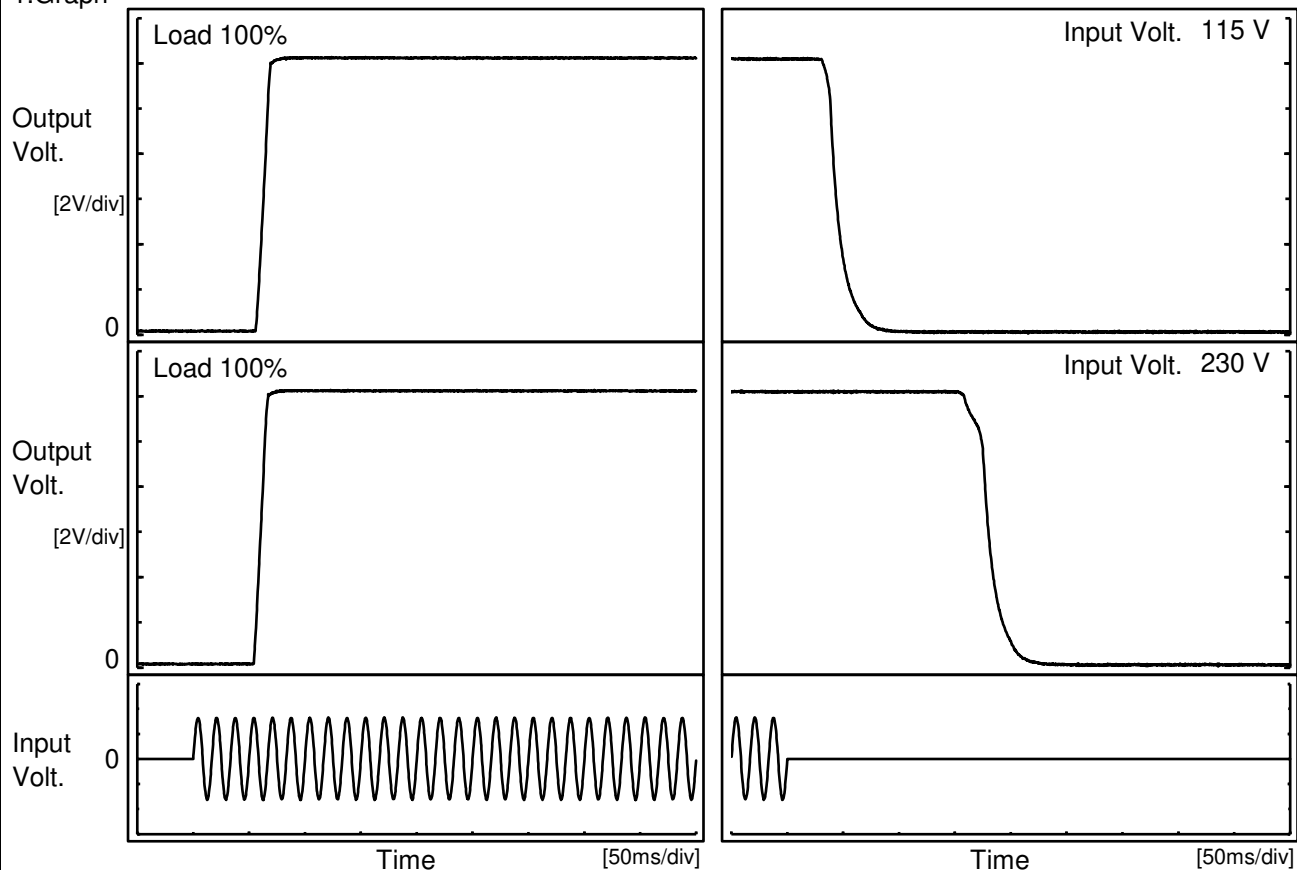
Model	PJA30F-12	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	+12V2.5A	



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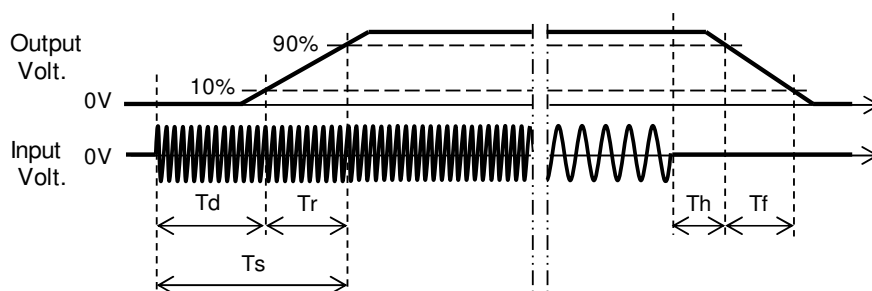
Model	PJA30F-12	Temperature 25°C Testing Circuitry Figure A
Item	Rise and Fall Time	
Object	+12V2.5A	

1.Graph



2.Values

Input Volt.	Time	Td	Tr	Ts	Th	Tf
115 V		57.8	10.0	67.8	37.3	24.3
230 V		55.8	9.5	65.3	168.0	30.5



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Model		PJA30F-12	Temperature25°C Testing CircuitryFigure A																																
Item		Hold-Up Time																																	
Object		+12V2.5A																																	
1.Graph		--- □ --- 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>39</td><td>15</td></tr><tr><td>100</td><td>57</td><td>23</td></tr><tr><td>115</td><td>79</td><td>33</td></tr><tr><td>200</td><td>258</td><td>117</td></tr><tr><td>230</td><td>349</td><td>162</td></tr><tr><td>264</td><td>465</td><td>219</td></tr><tr><td>280</td><td>527</td><td>252</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	39	15	100	57	23	115	79	33	200	258	117	230	349	162	264	465	219	280	527	252	--	-	-	--	-	-	2.Values
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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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Model		PJA30F-12		Temperature 25°C	
Item		Instantaneous Interruption Compensation		Testing Circuitry Figure A	
Object		+12V2.5A			
1.Graph		—△— Input Volt. 100V ---□--- Input Volt. 115V -·-○-·- Input Volt. 230V		2.Values	
Instantaneous Compensation Time [ms] <					

Model		PJA30F-12	Temperature Testing Circuitry	25°C Figure A																																									
Item		Overcurrent Protection																																											
Object		+12V2.5A																																											
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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>12.0</td><td>3.28</td><td>3.06</td></tr><tr><td>11.4</td><td>-</td><td>-</td></tr><tr><td>10.8</td><td>-</td><td>-</td></tr><tr><td>9.6</td><td>-</td><td>-</td></tr><tr><td>8.4</td><td>-</td><td>-</td></tr><tr><td>7.2</td><td>-</td><td>-</td></tr><tr><td>6.0</td><td>-</td><td>-</td></tr><tr><td>4.8</td><td>-</td><td>-</td></tr><tr><td>3.6</td><td>-</td><td>-</td></tr><tr><td>2.4</td><td>-</td><td>-</td></tr><tr><td>1.2</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]	12.0	3.28	3.06	11.4	-	-	10.8	-	-	9.6	-	-	8.4	-	-	7.2	-	-	6.0	-	-	4.8	-	-	3.6	-	-	2.4	-	-	1.2	-	-	0.0	-	-
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Model		PJA30F-12	Testing Circuitry Figure A
Item		Ambient Temperature Drift	
Object		+12V2.5A	
1.Values		Load 100%	
Ambient Temperature[°C]	Output Voltage [V]		
	Input Volt. 100V	Input Volt. 115V	Input Volt. 230V
-10	12.084	12.083	12.084
25	12.108	12.108	12.109
50	12.117	12.117	12.117

Item		Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object		+12V2.5A	
1.Values			
Ambient Temperature[°C]	Input Voltage [V]		
	Load 50%	Load 100%	
-10	32	61	
25	32	62	
50	31	62	

Item		Overvoltage Protection	Testing Circuitry Figure A
Object		+12V2.5A	
1.Values		Load 0%	
Ambient Temperature[°C]	Operating Point [V]		
	Input Volt. 115V	Input Volt. 230V	
-20	14.67	14.67	
25	15.11	15.11	
50	15.41	15.41	

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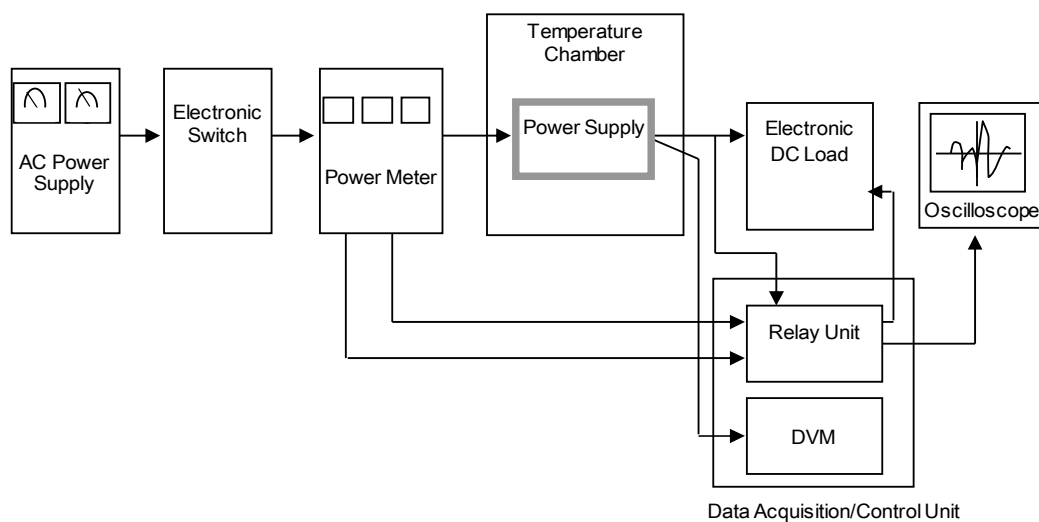


Figure A

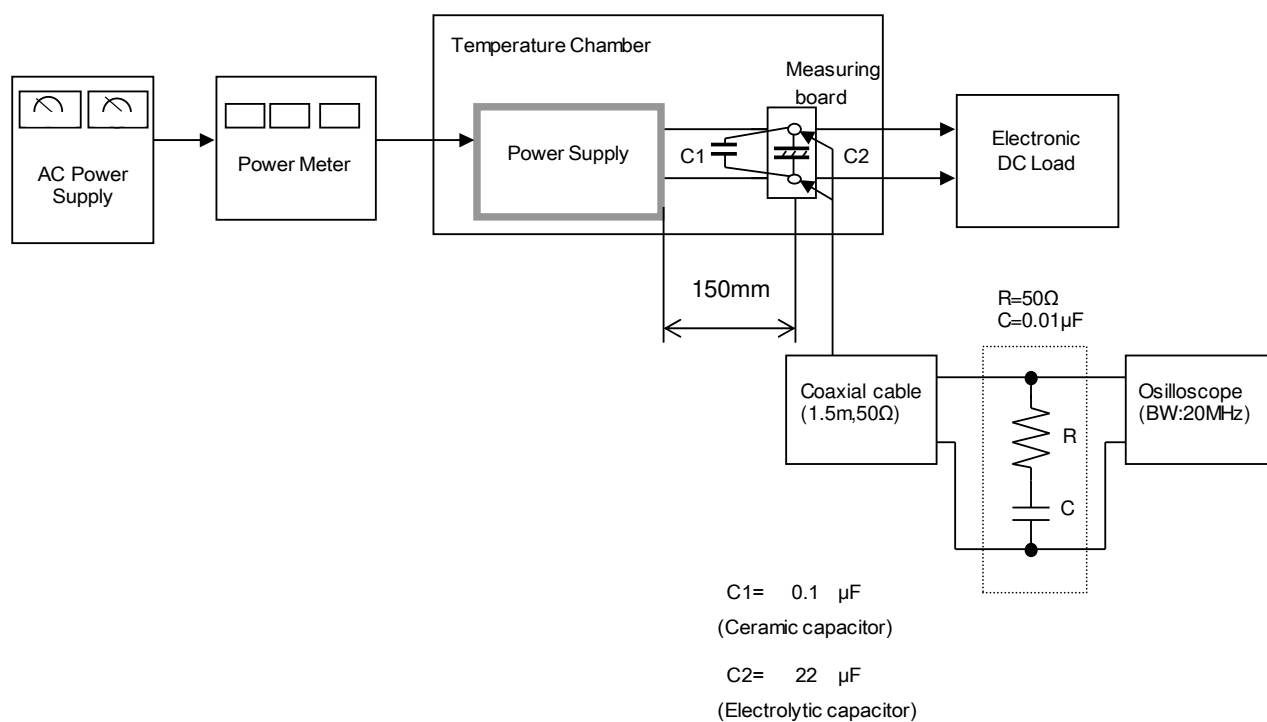


Figure B

