

TEST DATA OF PJMA300F-48

Regulated DC Power Supply
September 6, 2021

Approved by : Takashi Kajii
Design Manager

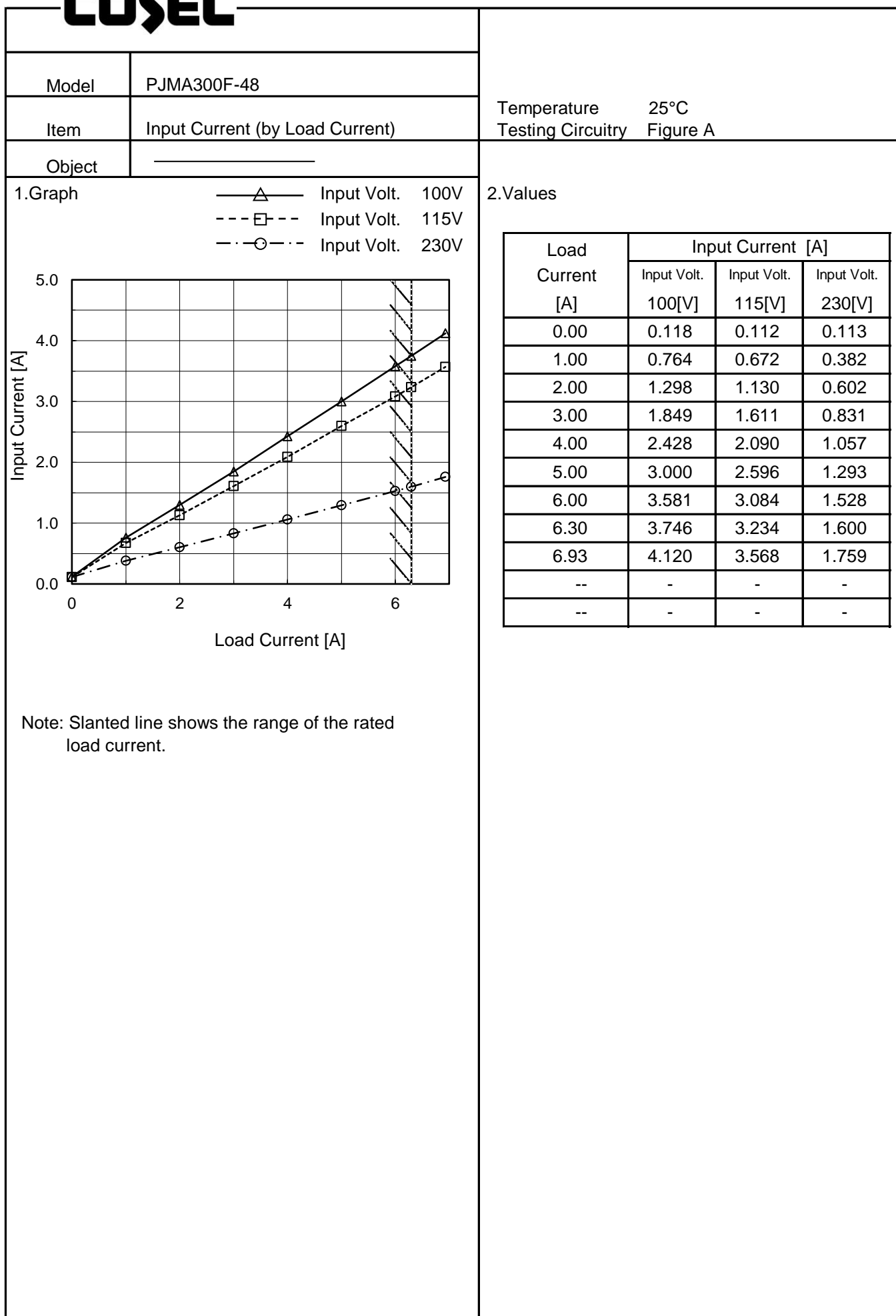
Prepared by : Ryo Takahashi
Design Engineer

COSEL CO.,LTD.

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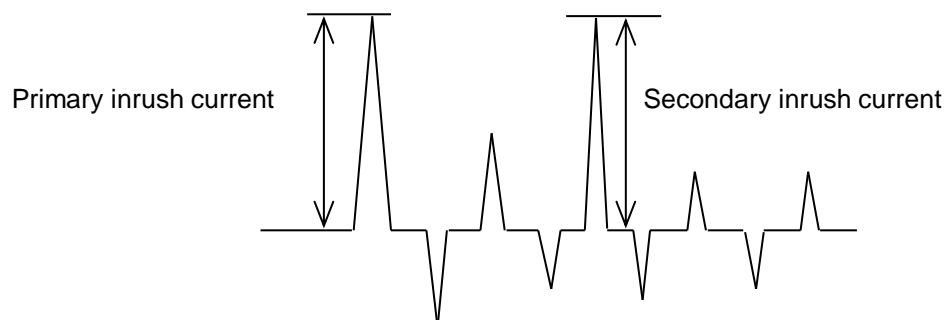
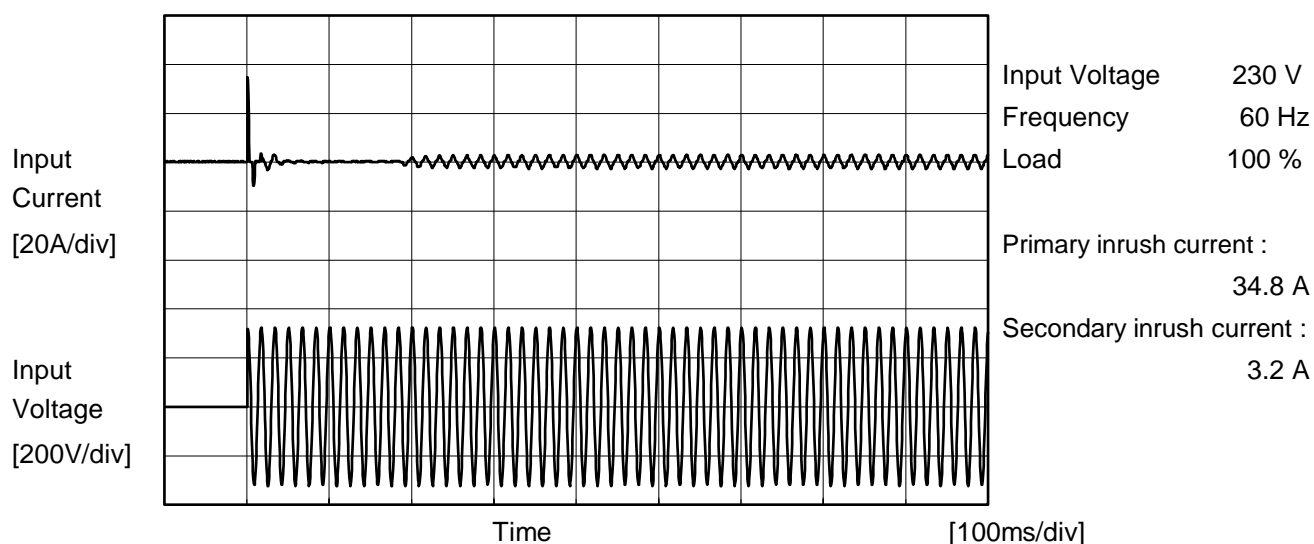
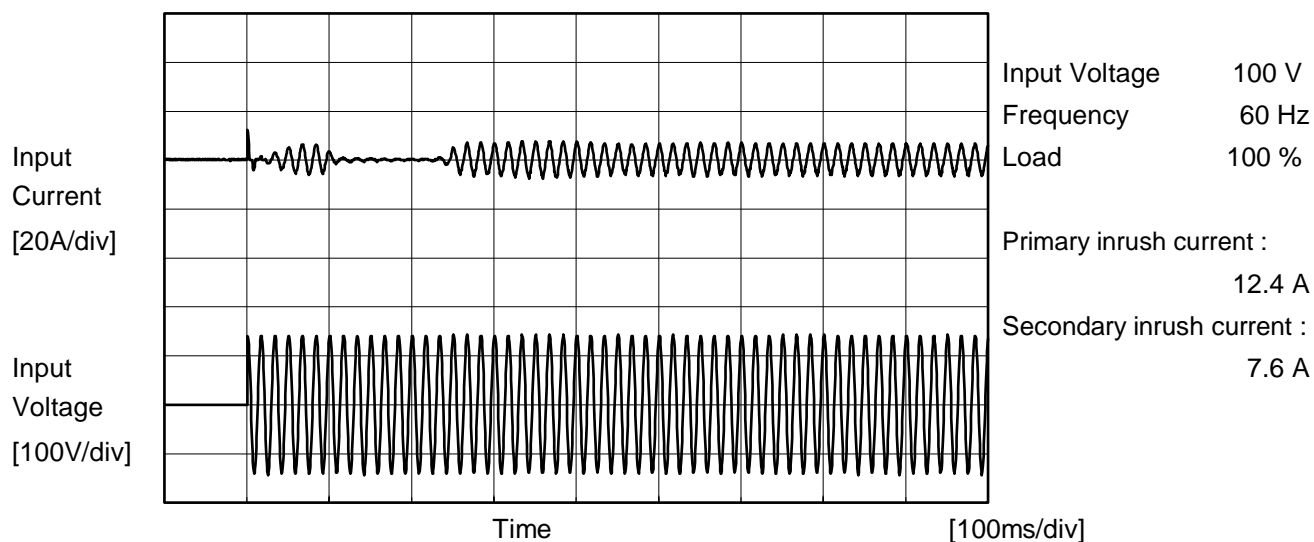
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Model	PJMA300F-48	Temperature 25°C Testing Circuitry Figure A	
Item	Inrush Current		
Object	_____		





		Temperature 25°C Testing Circuitry Figure C
Model	PJMA300F-48	
Item	Leakage Current	
Object	_____	

1.Results

[mA]

Standards		Input Volt.			Note
		115 [V]	230 [V]	240 [V]	
IEC60601-1	Both phases	0.08	0.18	0.18	Operation
	One of phases	0.16	0.33	0.34	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.

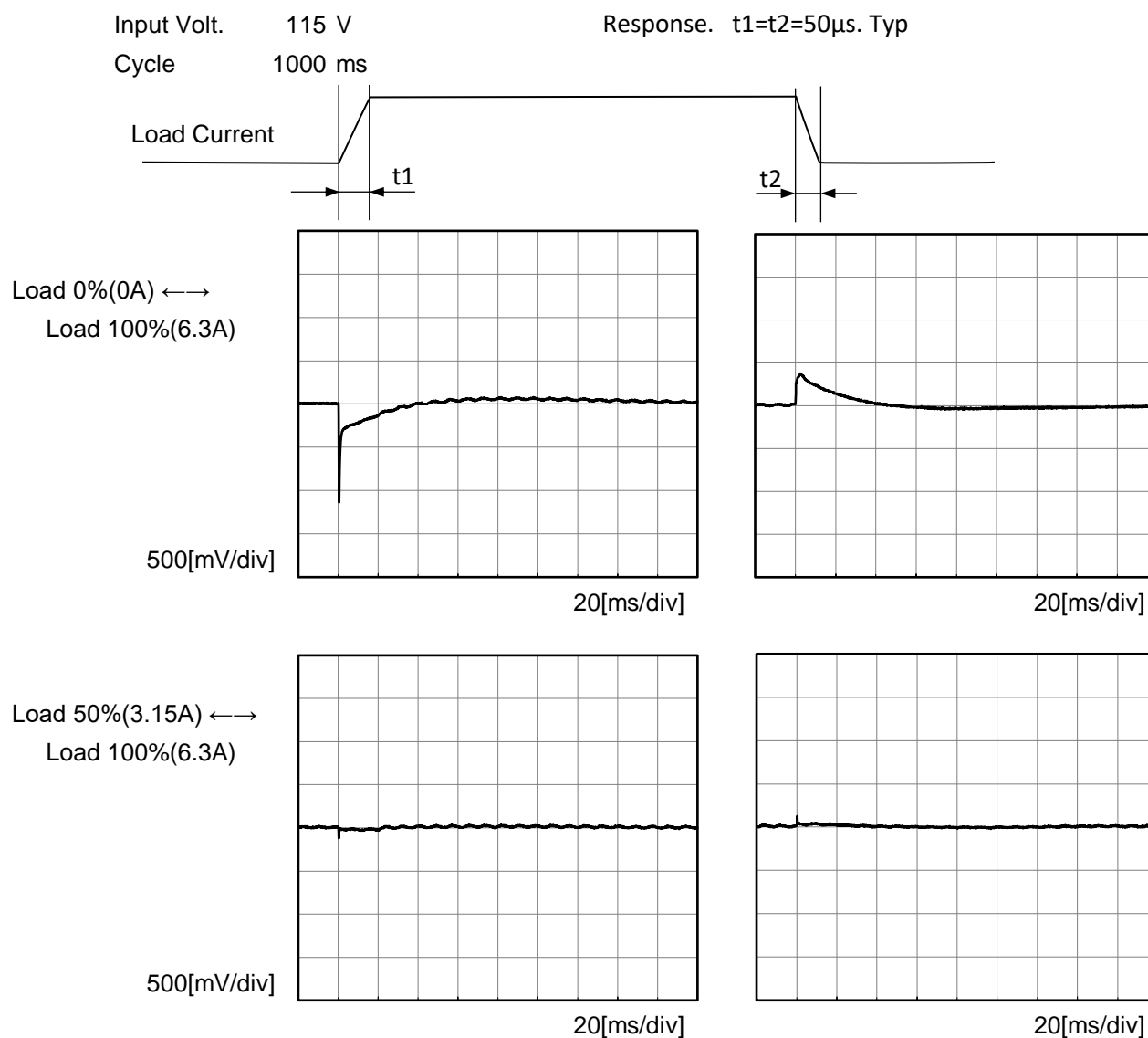
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Note: Slanted line shows the range of the rated input voltage.																																					

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Model		PJMA300F-48	Temperature		25°C
Item		Load Regulation	Testing Circuitry		Figure A
Object		+48V6.3A			
1.Graph			2.Values		
<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>—△—</div><div>---□---</div><div>-·-○-·-</div></div><div><div>Input Volt.</div><div>Input Volt.</div><div>Input Volt.</div></div><div><div>100V</div><div>115V</div><div>230V</div></div></div></div>					
<p>Note: Slanted line shows the range of the rated load current.</p>					
Item		Ripple-Noise	Temperature		25°C
Object		+48V6.3A	Testing Circuitry		Figure B
1.Graph					
<div><div>Input Voltage</div><div>115V</div><div>Load</div><div>100%</div></div>					

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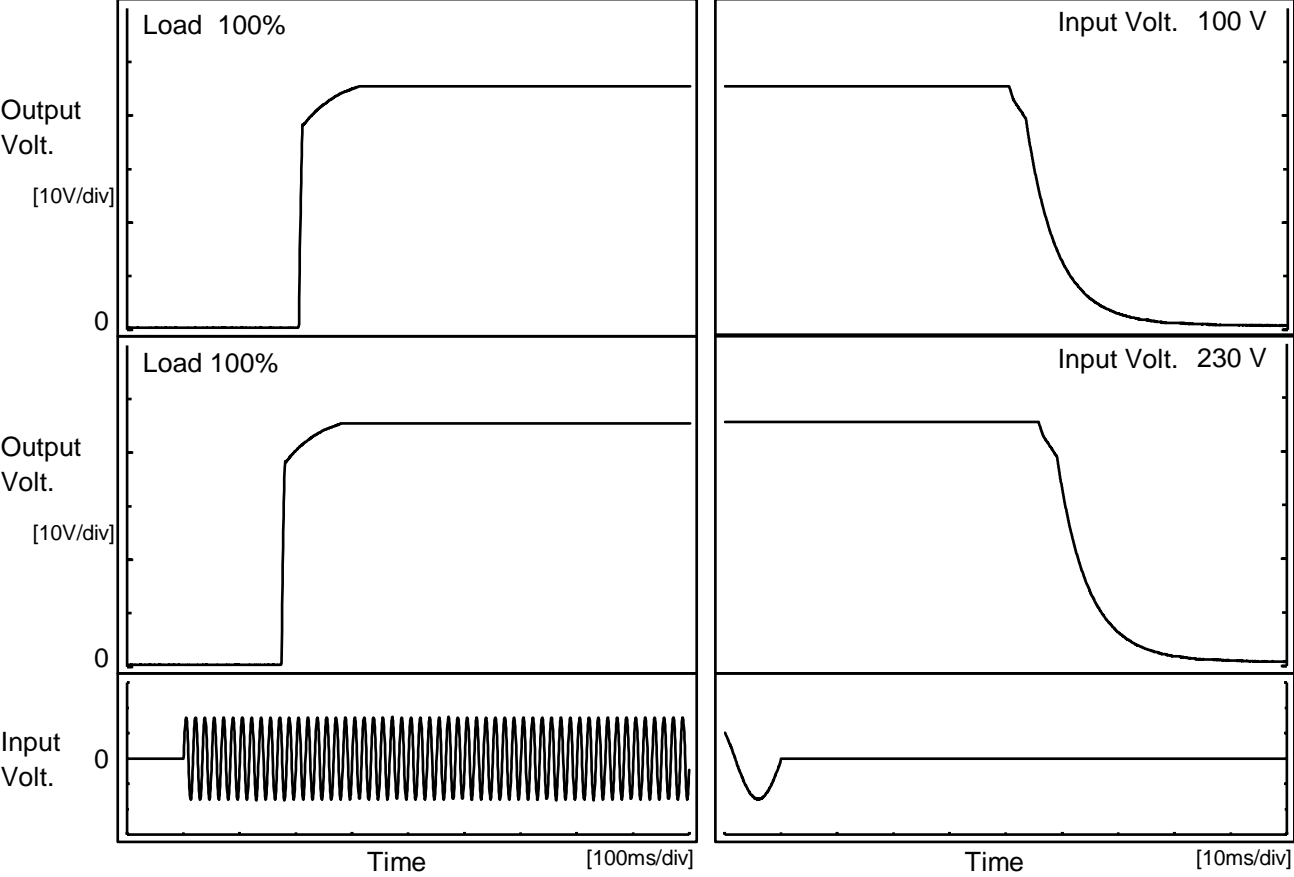
Model	PJMA300F-48		
Item	Dynamic Load Response	Temperature	25°C
Object	+48V6.3A	Testing Circuitry	Figure A





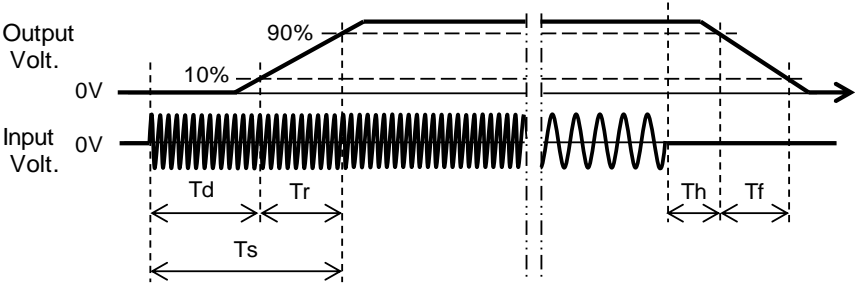
Model	PJMA300F-48		
Item	Rise and Fall Time	Temperature	25°C
Object	+48V6.3A	Testing Circuitry	Figure A

1.Graph



2.Values

		[ms]				
Input Volt.	Time	Td	Tr	Ts	Th	Tf
100V		206.0	64.5	270.5	41.1	14.7
230V		175.0	64.0	239.0	46.4	14.9



Model

PJMA300F-48

Item

Hold-Up Time

Object

+48V6.3A

Temperature

25°C

Testing Circuitry

Figure A

1.Graph

---□---

Load 50%

—△—

Load 100%

Hold-Up Time [ms]

1000

100

10

1

50

100

150

200

250

300

Input Voltage [V]

Slanted lines indicate the range of rated input voltage.

2.Values

Input Voltage [V]	Hold-Up Time [ms]	
	Load 50%	Load 100%
85	74	49 ※1
100	76	40
115	77	40
200	86	43
230	89	45
264	91	47
280	92	48
--	-	-
--	-	-

※1:Load 80%

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.

Model		PJMA300F-48		Temperature 25°C	
Item		Instantaneous Interruption Compensation		Testing Circuitry Figure A	
Object		+48V6.3A			
1.Graph				2.Values	
<div><div><div>—△—</div><div>Input Volt.</div><div>100V</div></div><div><div>---□---</div><div>Input Volt.</div><div>115V</div></div><div><div>---○---</div><div>Input Volt.</div><div>230V</div></div></div> <div><div><div>Instantaneous Compensation Time [ms]</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></d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Model		PJMA300F-48		Temperature		25°C																																																								
Item		Overcurrent Protection		Testing Circuitry		Figure A																																																								
Object		+48V6.3A																																																												
1.Graph				2.Values																																																										
<div><div><div></div><div></div><div></div></div><div><div>Input Volt. 100V</div><div>Input Volt. 115V</div><div>Input Volt. 230V</div></div></div> <p>Note: Slanted line shows the range of the rated load current.</p>				<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="3">Load 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>45.6</td><td>7.93</td><td>7.90</td><td>7.88</td></tr><tr><td>43.2</td><td>7.91</td><td>7.87</td><td>7.85</td></tr><tr><td>38.4</td><td>8.02</td><td>7.99</td><td>7.97</td></tr><tr><td>33.6</td><td>8.07</td><td>8.05</td><td>8.02</td></tr><tr><td>28.8</td><td>8.11</td><td>8.09</td><td>8.08</td></tr><tr><td>24.0</td><td>8.14</td><td>8.12</td><td>8.11</td></tr><tr><td>19.2</td><td>8.14</td><td>8.12</td><td>8.11</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><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>				Output Voltage [V]	Load Current [A]			Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]	45.6	7.93	7.90	7.88	43.2	7.91	7.87	7.85	38.4	8.02	7.99	7.97	33.6	8.07	8.05	8.02	28.8	8.11	8.09	8.08	24.0	8.14	8.12	8.11	19.2	8.14	8.12	8.11	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Output Voltage [V]	Load Current [A]																																																													
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		Testing Circuitry Figure A																			
Model	PJMA300F-48																				
Item	Ambient Temperature Drift																				
Object	+48V6.3A																				
1.Values <div>Load 100%</div> <table><tr><th rowspan="2">Ambient Temperature[°C]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 100V</th><th>Input Volt. 115V</th><th>Input Volt. 230V</th></tr><tr><td>-20</td><td>48.181</td><td>48.182</td><td>48.182</td></tr><tr><td>25</td><td>48.326</td><td>48.327</td><td>48.325</td></tr><tr><td>50</td><td>48.371</td><td>48.371</td><td>48.368</td></tr></table>			Ambient Temperature[°C]	Output Voltage [V]			Input Volt. 100V	Input Volt. 115V	Input Volt. 230V	-20	48.181	48.182	48.182	25	48.326	48.327	48.325	50	48.371	48.371	48.368
Ambient Temperature[°C]	Output Voltage [V]																				
	Input Volt. 100V	Input Volt. 115V	Input Volt. 230V																		
-20	48.181	48.182	48.182																		
25	48.326	48.327	48.325																		
50	48.371	48.371	48.368																		
Item	Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A																			
Object	+48V6.3A																				
1.Values <table><tr><th rowspan="2">Ambient Temperature[°C]</th><th colspan="2">Input Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>-20</td><td>35</td><td>50</td></tr><tr><td>25</td><td>35</td><td>51</td></tr><tr><td>50</td><td>36</td><td>52</td></tr></table>			Ambient Temperature[°C]	Input Voltage [V]		Load 50%	Load 100%	-20	35	50	25	35	51	50	36	52					
Ambient Temperature[°C]	Input Voltage [V]																				
	Load 50%	Load 100%																			
-20	35	50																			
25	35	51																			
50	36	52																			
Item	Overvoltage Protection	Testing Circuitry Figure A																			
Object	+48V6.3A																				
1.Values <div>Load 0%</div> <table><tr><th rowspan="2">Ambient Temperature[°C]</th><th colspan="2">Operating Point [V]</th></tr><tr><th>Input Volt. 100V</th><th>Input Volt. 230V</th></tr><tr><td>-20</td><td>59.79</td><td>59.68</td></tr><tr><td>25</td><td>61.86</td><td>61.86</td></tr><tr><td>50</td><td>62.98</td><td>62.97</td></tr></table>			Ambient Temperature[°C]	Operating Point [V]		Input Volt. 100V	Input Volt. 230V	-20	59.79	59.68	25	61.86	61.86	50	62.98	62.97					
Ambient Temperature[°C]	Operating Point [V]																				
	Input Volt. 100V	Input Volt. 230V																			
-20	59.79	59.68																			
25	61.86	61.86																			
50	62.98	62.97																			

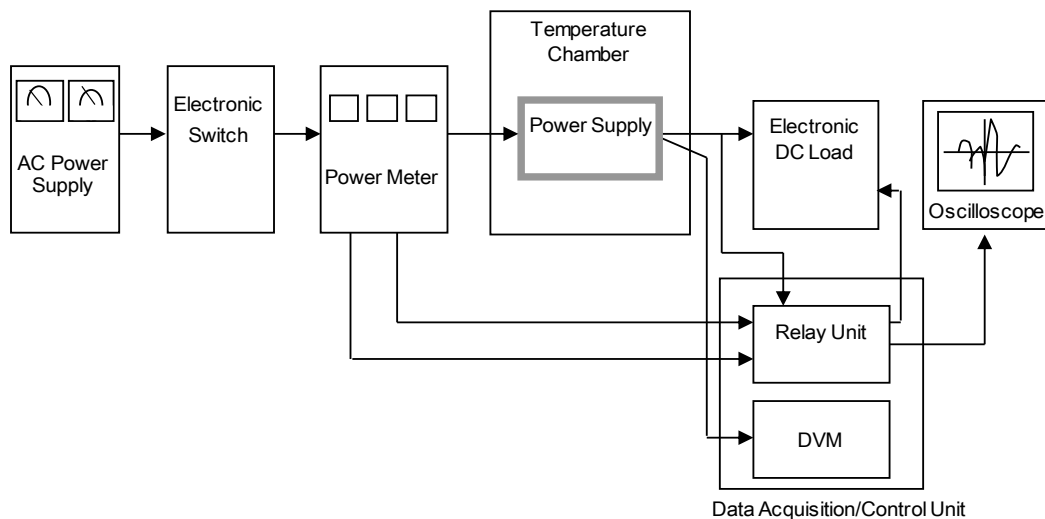


Figure A

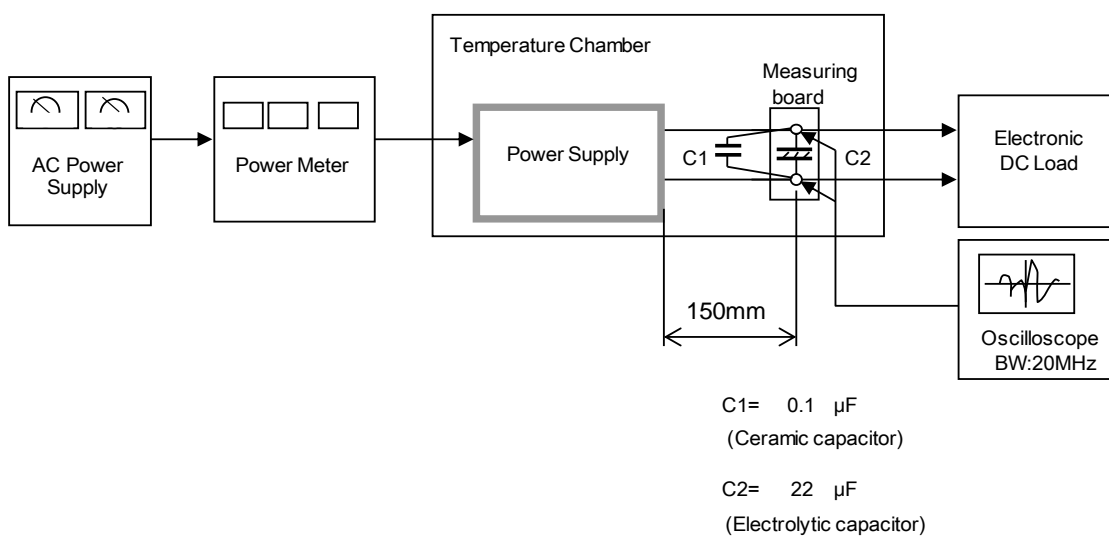


Figure B

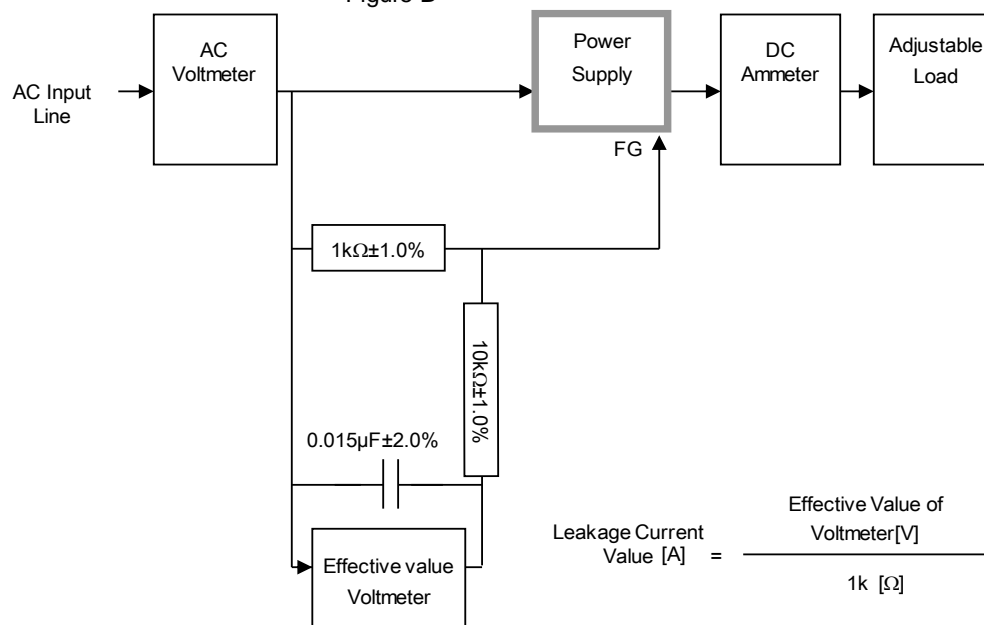


Figure C (IEC60601-1)