




TEST DATA OF PJMA600F-24

Regulated DC Power Supply
July 6, 2020

Approved by : 
Takashi Kajii Design Manager

Prepared by : 
Ryo Takahashi Design Engineer

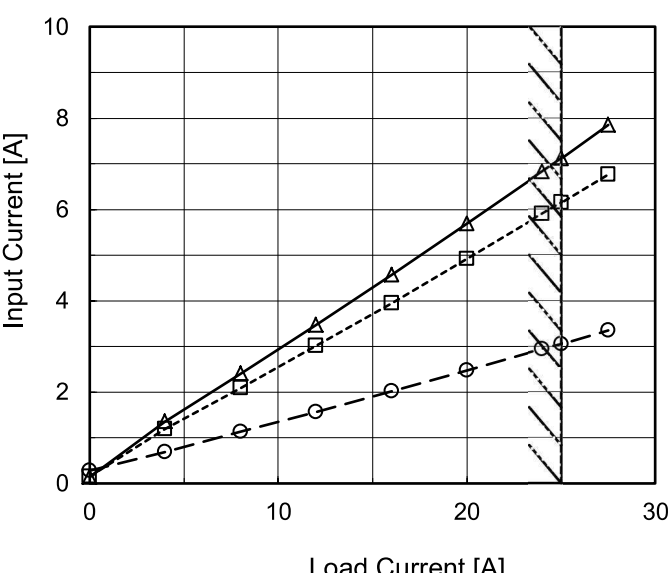
COSEL CO.,LTD.

CONTENTS

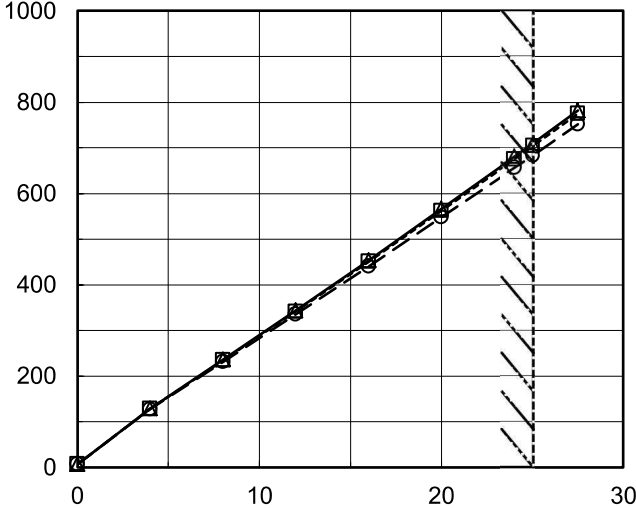
1.Input Current (by Load Current)	1
2.Input Power (by Load Current)	2
3.Efficiency (by Input Voltage)	3
4.Efficiency (by Load Current)	4
5.Power Factor (by Input Voltage)	5
6.Power Factor (by Load Current)	6
7.Inrush Current	7
8.Leakage Current	8
9.Line Regulation	9
10.Load Regulation	10
11.Dynamic Load Response	11
12.Ripple Voltage (by Load Current)	12
13.Ripple-Noise	13
14.Ripple Voltage (by Ambient Temperature)	14
15.Ambient Temperature Drift	15
16.Output Voltage Accuracy	16
17.Time Lapse Drift	17
18.Rise and Fall Time	18
19.Hold-Up Time	19
20.Instantaneous Interruption Compensation	20
21.Minimum Input Voltage for Regulated Output Voltage	21
22.Overcurrent Protection	22
23.Overvoltage Protection	23
24.Figure of Testing Circuitry	24

(Final Page 24)

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Model		PJMA600F-24		Temperature 25°C																																																				
Item		Input Current (by Load Current)		Testing Circuitry Figure A																																																				
Object		_____																																																						
1.Graph		<div><div>—△— Input Volt. 100V</div><div>---□--- Input Volt. 115V</div><div>---○--- Input Volt. 230V</div></div>  <p>Input Current [A]</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p>		2.Values																																																				
		<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>0.142</td><td>0.154</td><td>0.279</td></tr><tr><td>4.0</td><td>1.353</td><td>1.188</td><td>0.687</td></tr><tr><td>8.0</td><td>2.402</td><td>2.093</td><td>1.126</td></tr><tr><td>12.0</td><td>3.473</td><td>3.012</td><td>1.567</td></tr><tr><td>16.0</td><td>4.566</td><td>3.954</td><td>2.018</td></tr><tr><td>20.0</td><td>5.687</td><td>4.916</td><td>2.475</td></tr><tr><td>24.0</td><td>6.829</td><td>5.897</td><td>2.938</td></tr><tr><td>25.0</td><td>7.120</td><td>6.146</td><td>3.053</td></tr><tr><td>27.5</td><td>7.850</td><td>6.770</td><td>3.347</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	0.142	0.154	0.279	4.0	1.353	1.188	0.687	8.0	2.402	2.093	1.126	12.0	3.473	3.012	1.567	16.0	4.566	3.954	2.018	20.0	5.687	4.916	2.475	24.0	6.829	5.897	2.938	25.0	7.120	6.146	3.053	27.5	7.850	6.770	3.347	--	-	-	-	--	-	-	-
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Model		PJMA600F-24		Temperature 25°C	
Item		Input Power (by Load Current)		Testing Circuitry Figure A	
Object					
1.Graph					
		—△— Input Volt. 100V			
		---□--- Input Volt. 115V			
		---⊖--- Input Volt. 230V			
Input Power [W]					
Load Current [A]					
Note: Slanted line shows the range of the rated load current.					
2.Values					
Load Current [A]		Input Power [W]			
		Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]	
0.0		6.4	6.4	6.9	
4.0		128.6	128.0	126.8	
8.0		235.6	234.4	230.9	
12.0		343.8	341.5	335.2	
16.0		453.8	450.6	440.7	
20.0		566.3	561.7	548.0	
24.0		680.5	674.9	656.0	
25.0		709.0	703.3	683.0	
27.5		782.0	775.1	752.0	
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Model

PJMA600F-24

Item

Efficiency (by Input Voltage)

Object

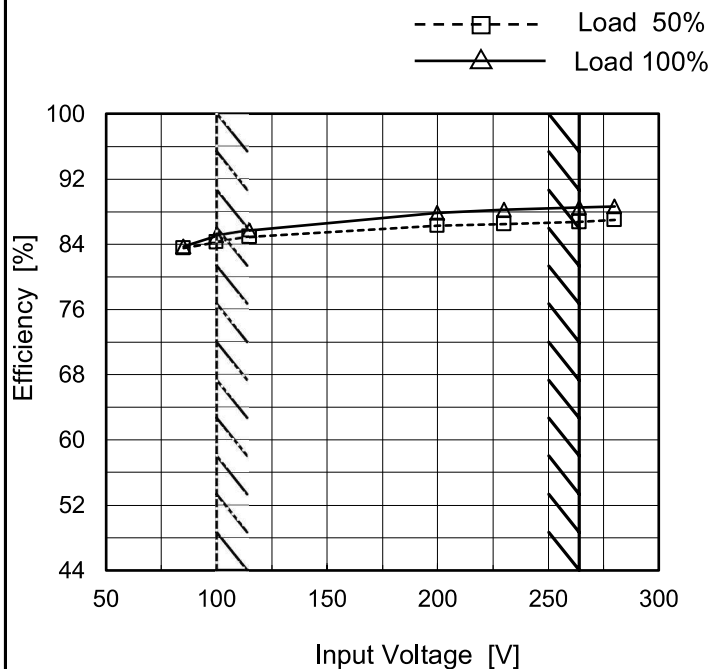
Temperature

25°C

Testing Circuitry

Figure A

1.Graph



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

2.Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
85	83.5	83.7
100	84.3	85.0
115	84.9	85.7
200	86.3	87.9
230	86.5	88.3
264	86.8	88.5
280	87.0	88.7
--	-	-
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Model		PJMA600F-24		Temperature		25°C																																																				
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<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> <table><thead><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></thead><tbody><tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>4.0</td><td>75.1</td><td>75.5</td><td>76.2</td></tr><tr><td>8.0</td><td>81.9</td><td>82.3</td><td>83.6</td></tr><tr><td>12.0</td><td>84.1</td><td>84.7</td><td>86.3</td></tr><tr><td>16.0</td><td>85.0</td><td>85.6</td><td>87.5</td></tr><tr><td>20.0</td><td>85.1</td><td>85.8</td><td>88.0</td></tr><tr><td>24.0</td><td>85.1</td><td>85.8</td><td>88.3</td></tr><tr><td>25.0</td><td>85.0</td><td>85.7</td><td>88.3</td></tr><tr><td>27.5</td><td>84.8</td><td>85.6</td><td>88.2</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></tbody></table> <p>Note: Slanted line shows the range of the rated load current.</p>				Load Current [A]	Efficiency [%]			Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]	0.0	-	-	-	4.0	75.1	75.5	76.2	8.0	81.9	82.3	83.6	12.0	84.1	84.7	86.3	16.0	85.0	85.6	87.5	20.0	85.1	85.8	88.0	24.0	85.1	85.8	88.3	25.0	85.0	85.7	88.3	27.5	84.8	85.6	88.2	--	-	-	-	--	-	-	-				
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Model

PJMA600F-24

Item

Power Factor (by Input Voltage)

Object

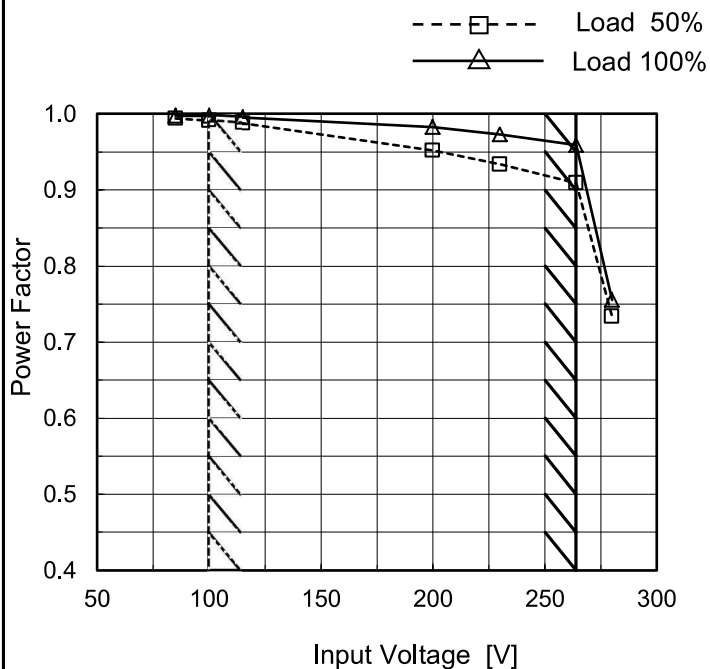
Temperature

25°C

Testing Circuitry

Figure A

1.Graph



2.Values

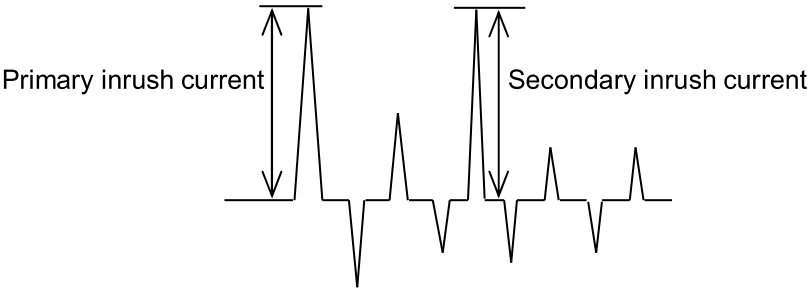
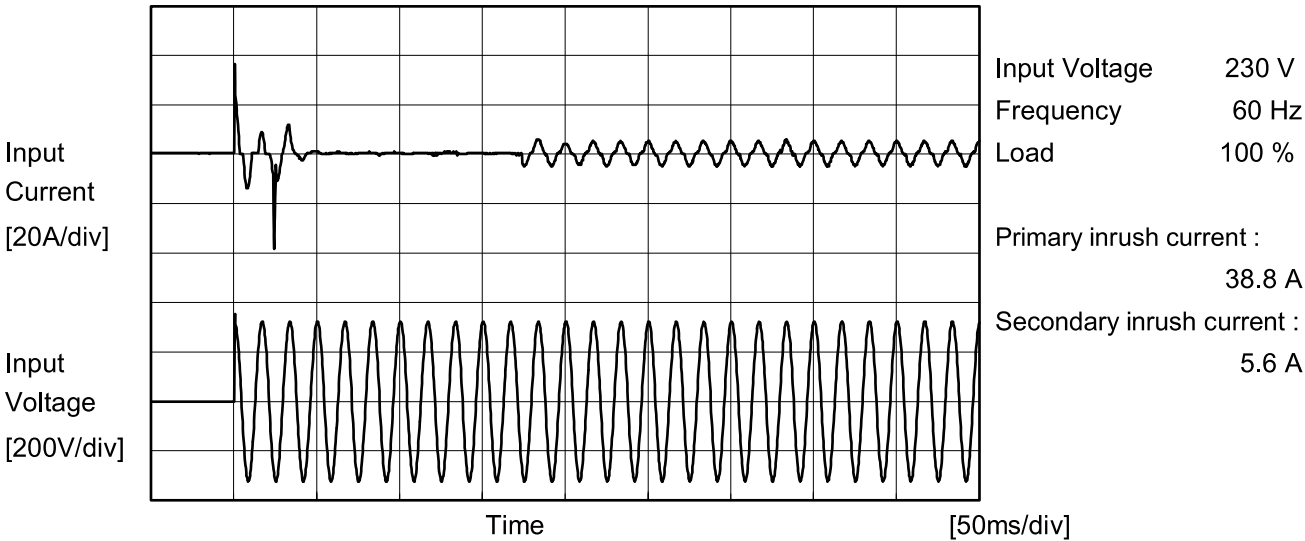
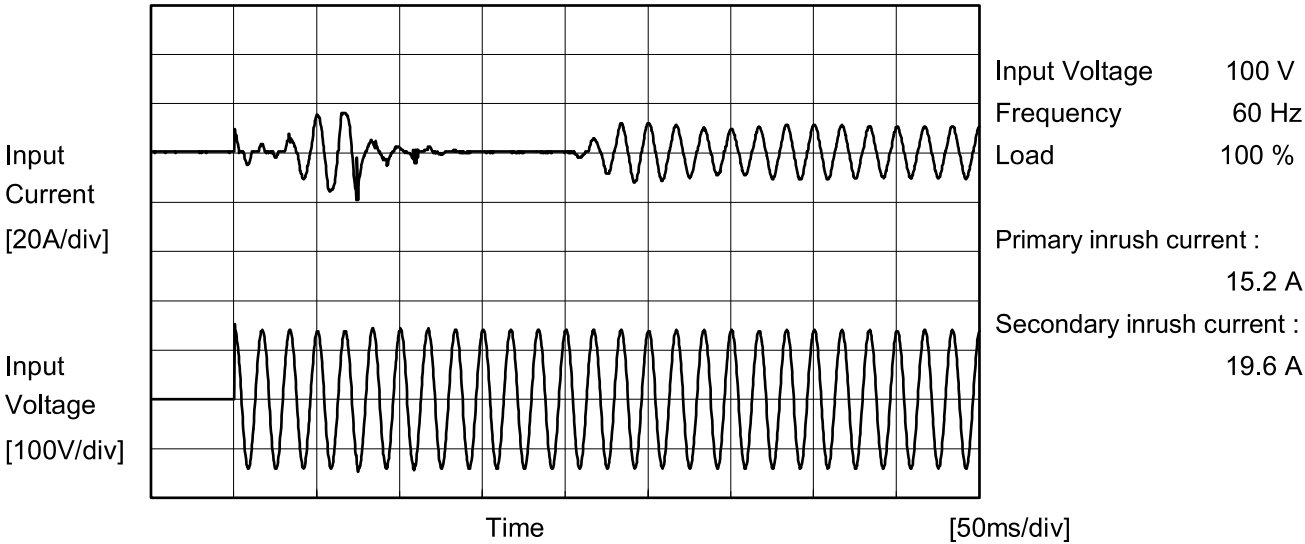
Input Voltage [V]	Power Factor	
	Load 50%	Load 100%
85	0.994	0.997
100	0.991	0.997
115	0.988	0.996
200	0.952	0.983
230	0.934	0.973
264	0.909	0.959
280	0.734	0.756
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Model		PJMA600F-24		Temperature 25°C																																																				
Item		Power Factor (by Load Current)		Testing Circuitry Figure A																																																				
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Model	PJMA600F-24		
Item	Inrush Current	Temperature	25°C
Object		Testing Circuitry	Figure A





		Temperature 25°C Testing Circuitry Figure B
Model	PJMA600F-24	
Item	Leakage Current	
Object	_____	

1.Results

[mA]

Standards		Input Volt.			Note
		100 [V]	115 [V]	240 [V]	
IEC60601-1	Both phases	0.09	0.10	0.23	Operation
	One of phases	0.16	0.19	0.43	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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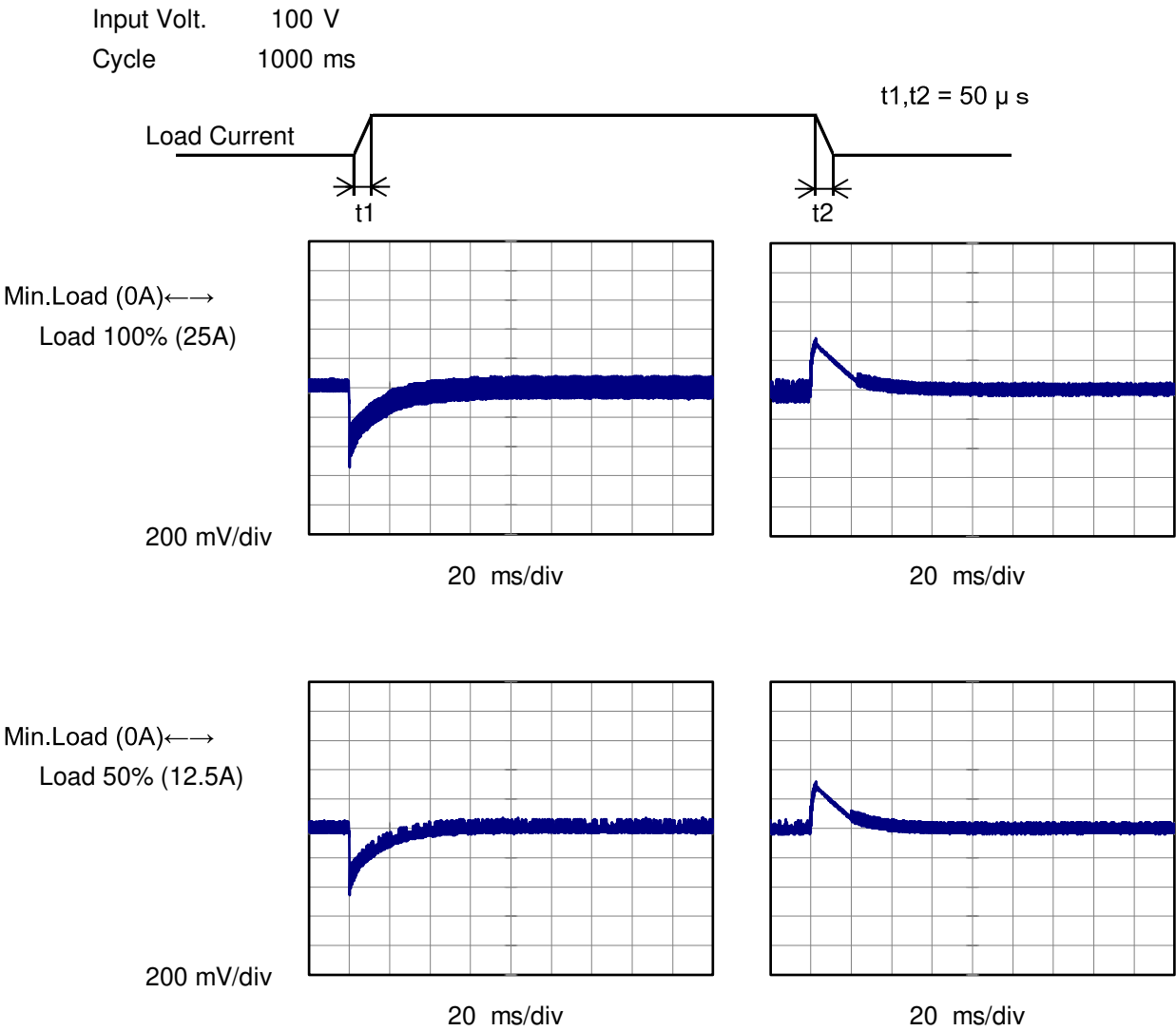
Model		PJMA600F-24	Temperature		25°C
Item		Line Regulation	Testing Circuitry		Figure A
Object		+24V25A			
1.Graph			2.Values		
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COSEL

Model	PJMA600F-24																																																					
Item	Load Regulation	Temperature	25°C																																																			
		Testing Circuitry	Figure A																																																			
Object	+24V25A																																																					
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>Output Voltage [V]</div> <div>Load Current [A]</div> <p>Note: Slanted line shows the range of the rated load current.</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Output Voltage [V]</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>24.125</td><td>24.124</td><td>24.124</td></tr><tr><td>4.0</td><td>24.117</td><td>24.117</td><td>24.117</td></tr><tr><td>8.0</td><td>24.115</td><td>24.115</td><td>24.115</td></tr><tr><td>12.0</td><td>24.114</td><td>24.113</td><td>24.113</td></tr><tr><td>16.0</td><td>24.113</td><td>24.112</td><td>24.112</td></tr><tr><td>20.0</td><td>24.112</td><td>24.111</td><td>24.111</td></tr><tr><td>24.0</td><td>24.110</td><td>24.109</td><td>24.109</td></tr><tr><td>25.0</td><td>24.109</td><td>24.109</td><td>24.109</td></tr><tr><td>27.5</td><td>24.108</td><td>24.108</td><td>24.108</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]	Output Voltage [V]			Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]	0.0	24.125	24.124	24.124	4.0	24.117	24.117	24.117	8.0	24.115	24.115	24.115	12.0	24.114	24.113	24.113	16.0	24.113	24.112	24.112	20.0	24.112	24.111	24.111	24.0	24.110	24.109	24.109	25.0	24.109	24.109	24.109	27.5	24.108	24.108	24.108	--	-	-	-	--	-	-	-
Load Current [A]	Output Voltage [V]																																																					
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8.0	24.115	24.115	24.115																																																			
12.0	24.114	24.113	24.113																																																			
16.0	24.113	24.112	24.112																																																			
20.0	24.112	24.111	24.111																																																			
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25.0	24.109	24.109	24.109																																																			
27.5	24.108	24.108	24.108																																																			
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Model	PJMA600F-24		
Item	Dynamic Load Response	Temperature	25°C
Object	+24V25A	Testing Circuitry	Figure A



COSEL

Model		PJMA600F-24		Temperature 25°C																																					
Item		Ripple Voltage (by Load Current)		Testing Circuitry Figure C																																					
Object		+24V25A																																							
1.Graph				2.Values																																					
<div><div><div>—△— Input Volt. 100V</div><div>---○--- Input Volt. 230V</div></div><table><thead><tr><th>Load Current [A]</th><th>100V [mV]</th><th>230V [mV]</th></tr></thead><tbody><tr><td>0.0</td><td>10</td><td>10</td></tr><tr><td>4.0</td><td>15</td><td>15</td></tr><tr><td>8.0</td><td>15</td><td>15</td></tr><tr><td>12.0</td><td>20</td><td>20</td></tr><tr><td>16.0</td><td>20</td><td>25</td></tr><tr><td>20.0</td><td>25</td><td>30</td></tr><tr><td>24.0</td><td>35</td><td>35</td></tr><tr><td>25.0</td><td>35</td><td>35</td></tr><tr><td>27.5</td><td>35</td><td>35</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table></div>				Load Current [A]	100V [mV]	230V [mV]	0.0	10	10	4.0	15	15	8.0	15	15	12.0	20	20	16.0	20	25	20.0	25	30	24.0	35	35	25.0	35	35	27.5	35	35	--	-	-	--	-	-		
Load Current [A]	100V [mV]	230V [mV]																																							
0.0	10	10																																							
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<p>Measured by 20 MHz Oscilloscope.</p> <p>Ripple Voltage is shown as p-p in the figure below.</p> <p>Note: Slanted line shows the range of the rated load current.</p>																																									
<div><div><div>T1: Due to AC Input Line</div><div>T2: Due to Switching</div></div><p>Fig. Complex Ripple Wave Form</p></div>																																									

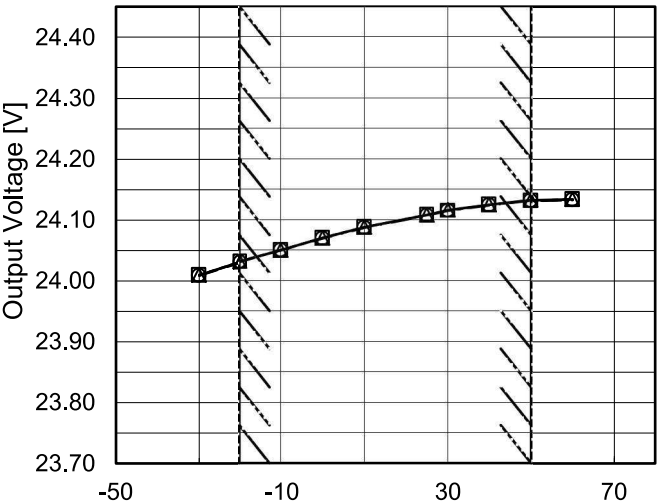
COSEL

Model		PJMA600F-24	Temperature		25°C																																						
Item		Ripple-Noise	Testing Circuitry		Figure C																																						
Object		+24V25A																																									
1.Graph			2.Values																																								
<div><div><div>—△— Input Volt. 100V</div><div>--○-- Input Volt. 230V</div></div><p>Ripple-Noise [mV]</p><p>Load Current [A]</p></div> <div>Measured by 20 MHz Oscilloscope. Ripple-Noise is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</div>			<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple-Noise [mV]</th></tr><tr><th>Input Volt. 100 [V]</th><th>Input Volt. 230 [V]</th></tr><tr><td>0.0</td><td>30</td><td>30</td></tr><tr><td>4.0</td><td>30</td><td>30</td></tr><tr><td>8.0</td><td>35</td><td>35</td></tr><tr><td>12.0</td><td>35</td><td>35</td></tr><tr><td>16.0</td><td>35</td><td>35</td></tr><tr><td>20.0</td><td>35</td><td>35</td></tr><tr><td>24.0</td><td>35</td><td>35</td></tr><tr><td>25.0</td><td>40</td><td>40</td></tr><tr><td>27.5</td><td>40</td><td>40</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>			Load Current [A]	Ripple-Noise [mV]		Input Volt. 100 [V]	Input Volt. 230 [V]	0.0	30	30	4.0	30	30	8.0	35	35	12.0	35	35	16.0	35	35	20.0	35	35	24.0	35	35	25.0	40	40	27.5	40	40	--	-	-	--	-	-
Load Current [A]	Ripple-Noise [mV]																																										
	Input Volt. 100 [V]	Input Volt. 230 [V]																																									
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COSEL

Model		PJMA600F-24	Testing Circuitry Figure A																																						
Item		Ripple Voltage (by Ambient Temp.)																																							
Object		+24V25A																																							
1.Graph		<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>Input Volt. 100V</div><div>Input Volt. 230V</div></div></div><table><thead><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 100 [V]</th><th>Input Volt. 230 [V]</th></tr></thead><tbody><tr><td>-30</td><td>40</td><td>40</td></tr><tr><td>-20</td><td>45</td><td>45</td></tr><tr><td>-10</td><td>30</td><td>40</td></tr><tr><td>0</td><td>35</td><td>40</td></tr><tr><td>10</td><td>35</td><td>40</td></tr><tr><td>25</td><td>35</td><td>35</td></tr><tr><td>30</td><td>25</td><td>25</td></tr><tr><td>40</td><td>25</td><td>25</td></tr><tr><td>50</td><td>25</td><td>25</td></tr><tr><td>60</td><td>25</td><td>25</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table></div>	Ambient Temperature [°C]	Ripple Voltage [mV]		Input Volt. 100 [V]	Input Volt. 230 [V]	-30	40	40	-20	45	45	-10	30	40	0	35	40	10	35	40	25	35	35	30	25	25	40	25	25	50	25	25	60	25	25	--	-	-	2.Values
Ambient Temperature [°C]	Ripple Voltage [mV]																																								
	Input Volt. 100 [V]	Input Volt. 230 [V]																																							
-30	40	40																																							
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-10	30	40																																							
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Measured by 20 MHz Oscilloscope.																																									
Note: Slanted line shows the range of the rated ambient temperature.																																									

COSEL

Model		PJMA600F-24		Testing Circuitry Figure A																																																		
Item		Ambient Temperature Drift																																																				
Object		+24V25A																																																				
1.Graph		<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>Output Voltage [V]</div><div>Ambient Temperature [°C]</div><div>Load 100%</div></div>		2.Values																																																		
		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 115[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>-30</td><td>24.009</td><td>24.009</td><td>24.009</td></tr><tr><td>-20</td><td>24.031</td><td>24.031</td><td>24.031</td></tr><tr><td>-10</td><td>24.050</td><td>24.050</td><td>24.050</td></tr><tr><td>0</td><td>24.070</td><td>24.069</td><td>24.069</td></tr><tr><td>10</td><td>24.087</td><td>24.087</td><td>24.087</td></tr><tr><td>25</td><td>24.107</td><td>24.107</td><td>24.107</td></tr><tr><td>30</td><td>24.115</td><td>24.115</td><td>24.115</td></tr><tr><td>40</td><td>24.124</td><td>24.124</td><td>24.124</td></tr><tr><td>50</td><td>24.132</td><td>24.131</td><td>24.131</td></tr><tr><td>60</td><td>24.134</td><td>24.134</td><td>24.133</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>		Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]	-30	24.009	24.009	24.009	-20	24.031	24.031	24.031	-10	24.050	24.050	24.050	0	24.070	24.069	24.069	10	24.087	24.087	24.087	25	24.107	24.107	24.107	30	24.115	24.115	24.115	40	24.124	24.124	24.124	50	24.132	24.131	24.131	60	24.134	24.134	24.133	--	-	-	-
Ambient Temperature [°C]	Output Voltage [V]																																																					
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0	24.070	24.069	24.069																																																			
10	24.087	24.087	24.087																																																			
25	24.107	24.107	24.107																																																			
30	24.115	24.115	24.115																																																			
40	24.124	24.124	24.124																																																			
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Note: Slanted line shows the range of the rated ambient temperature.																																																						



COSEL		Testing Circuitry Figure A
Model	PJMA600F-24	
Item	Output Voltage Accuracy	
Object	+24V25A	

1. Output Voltage Accuracy

This is defined as the value of the output voltage, regulation load, ambient temperature and input voltage varied at random in the range as specified below.

Temperature : -20 - 50°C

Input Voltage : 100 - 230V

Load Current : 0 - 25A

* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

* Output Voltage Accuracy (Ratio) =
$$\frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$$

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ratio [%]
Maximum Voltage	50	100	0	24.147	±58	±0.2
Minimum Voltage	-20	230	25	24.031		

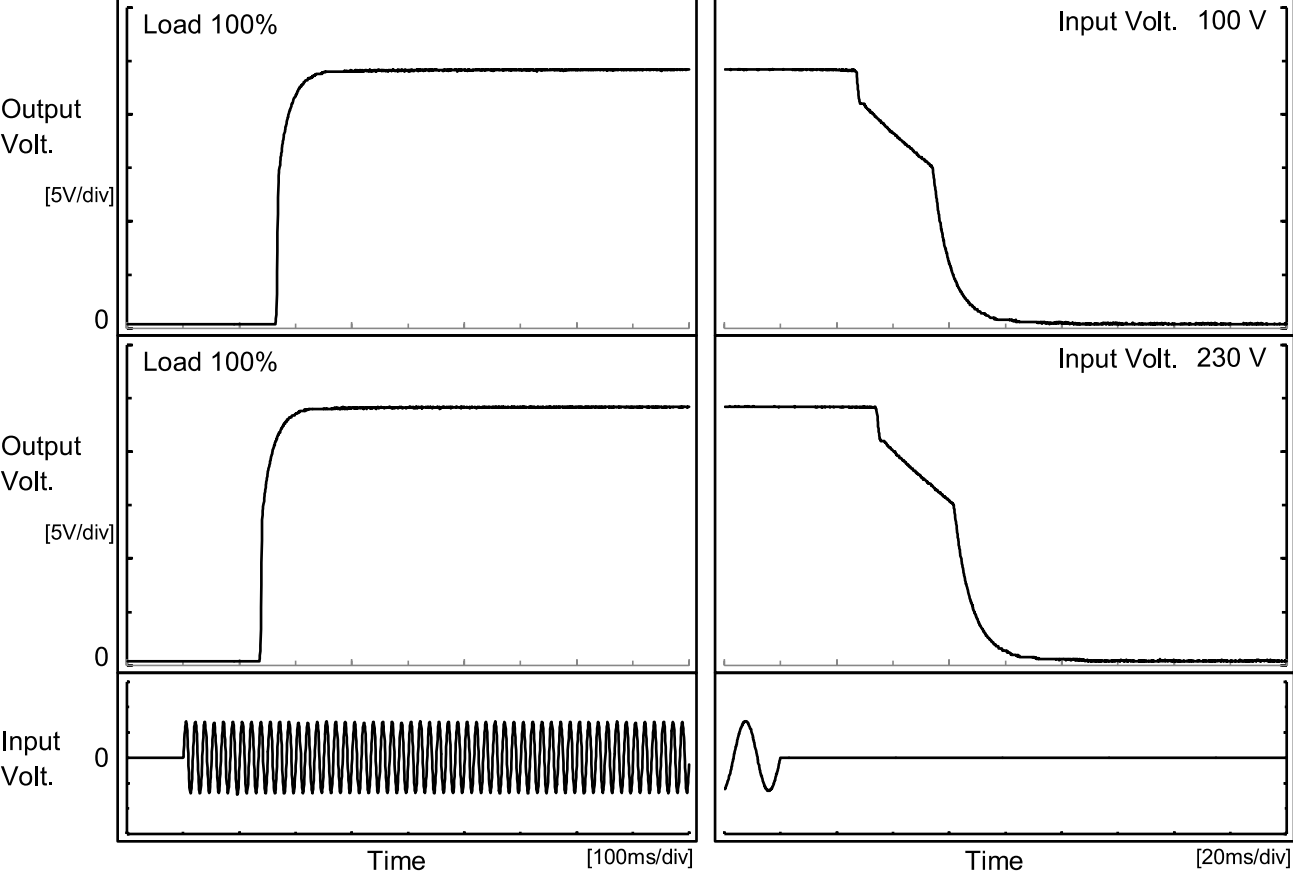
COSEL

LUCEL			
Model	PJMA600F-24		
Item	Time Lapse Drift	Temperature	25°C
		Testing Circuitry	Figure A
Object	+24V25A		
1.Graph		2.Values	
<div><div><div>Output Voltage [V]</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></di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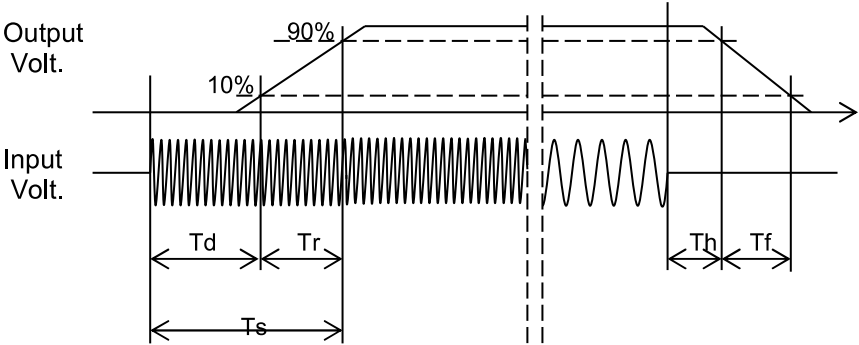
Model	PJMA600F-24		
Item	Rise and Fall Time	Temperature	25°C
Object	+24V25A	Testing Circuitry	Figure A

1.Graph



2.Values

		[ms]				
Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		166.5	36.0	202.5	27.6	38.1
230 V		136.5	35.0	171.5	34.8	38.5



COSEL

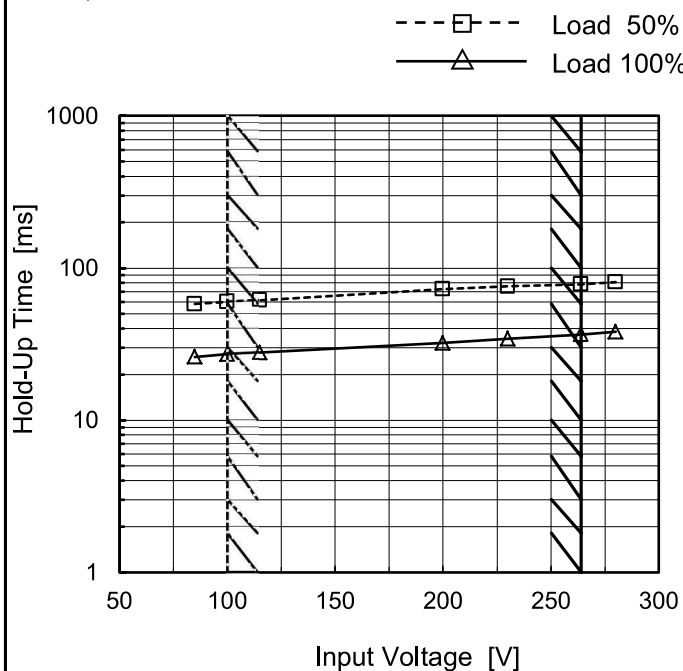
Model PJMA600F-24

Item Hold-Up Time

Object +24V25A

 Temperature 25°C
 Testing Circuitry Figure A

1.Graph



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.

2.Values

Input Voltage [V]	Hold-Up Time [ms]	
	Load 50%	Load 100%
85	58	26
100	60	27
115	61	28
200	73	32
230	76	34
264	79	37
280	81	38
--	-	-
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COSEL

Model		PJMA600F-24	Temperature		25°C																																																			
Item		Instantaneous Interruption Compensation	Testing Circuitry		Figure A																																																			
Object		+24V25A																																																						
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>Instantaneous Compensation Time [ms]</div> <div>Load Current [A]</div> <div>Note: Slanted line shows the range of the rated load current.</div>			<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>4.0</td><td>198</td><td>205</td><td>238</td></tr><tr><td>8.0</td><td>98</td><td>104</td><td>122</td></tr><tr><td>12.0</td><td>63</td><td>70</td><td>85</td></tr><tr><td>16.0</td><td>53</td><td>51</td><td>60</td></tr><tr><td>20.0</td><td>36</td><td>37</td><td>53</td></tr><tr><td>24.0</td><td>28</td><td>29</td><td>44</td></tr><tr><td>25.0</td><td>28</td><td>28</td><td>39</td></tr><tr><td>27.5</td><td>22</td><td>23</td><td>35</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	-	-	-	4.0	198	205	238	8.0	98	104	122	12.0	63	70	85	16.0	53	51	60	20.0	36	37	53	24.0	28	29	44	25.0	28	28	39	27.5	22	23	35	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																							
	Input Volt. 100[V]	Input Volt. 115[V]	Input Volt. 230[V]																																																					
0.0	-	-	-																																																					
4.0	198	205	238																																																					
8.0	98	104	122																																																					
12.0	63	70	85																																																					
16.0	53	51	60																																																					
20.0	36	37	53																																																					
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27.5	22	23	35																																																					
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COSEL

Model

PJMA600F-24

Item

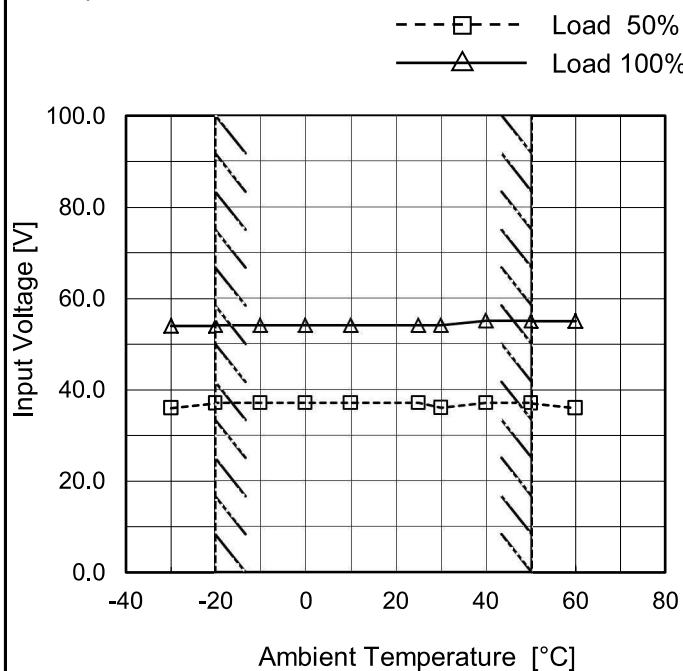
Minimum Input Voltage
for Regulated Output Voltage

Object

+24V25A

Testing Circuitry Figure A

1.Graph



Note: Slanted line shows the range of the rated ambient temperature.

2.Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-30	36.0	54.0
-20	37.0	54.0
-10	37.0	54.0
0	37.0	54.0
10	37.0	54.0
25	37.0	54.0
30	36.0	54.0
40	37.0	55.0
50	37.0	55.0
60	36.0	55.0
--	-	-

COSEL

Model		PJMA600F-24		Temperature Testing Circuitry	25°C Figure A																																																											
Item		Overcurrent Protection																																																														
Object		+24V25A																																																														
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>22.8</td><td>31.16</td><td>31.11</td><td>31.14</td></tr><tr><td>21.6</td><td>27.78</td><td>27.15</td><td>27.19</td></tr><tr><td>19.2</td><td>31.72</td><td>31.69</td><td>31.83</td></tr><tr><td>16.8</td><td>32.26</td><td>32.22</td><td>32.36</td></tr><tr><td>14.4</td><td>32.61</td><td>32.58</td><td>32.68</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><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]	22.8	31.16	31.11	31.14	21.6	27.78	27.15	27.19	19.2	31.72	31.69	31.83	16.8	32.26	32.22	32.36	14.4	32.61	32.58	32.68	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
Output Voltage [V]	Load Current [A]																																																															
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14.4	32.61	32.58	32.68																																																													
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COSEL

Model

PJMA600F-24

Item

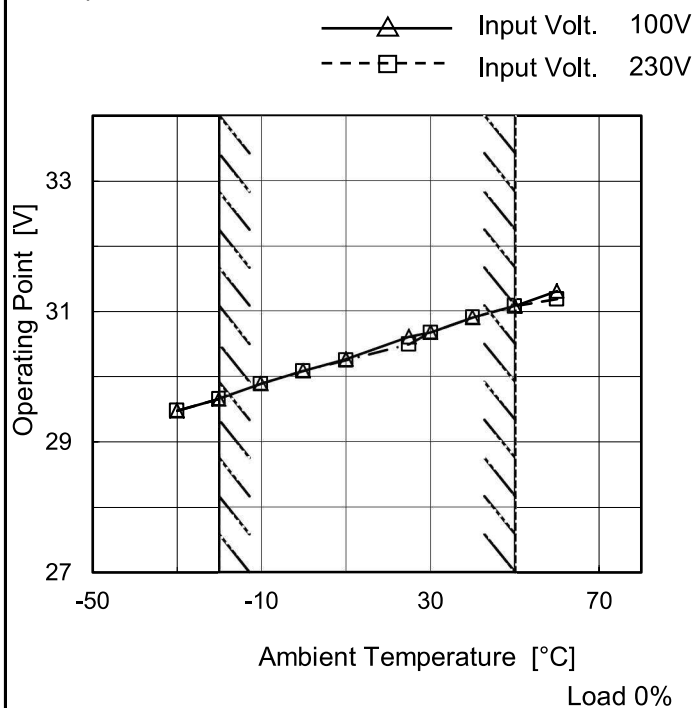
Overvoltage Protection

Object

+24V25A

Testing Circuitry Figure A

1.Graph



Note: Slanted line shows the range of the rated ambient temperature.

2.Values

Ambient Temperature [°C]	Operating Point [V]	
	Input Volt. 100[V]	Input Volt. 230[V]
-30	29.48	29.48
-20	29.66	29.66
-10	29.89	29.89
0	30.08	30.08
10	30.26	30.25
25	30.61	30.49
30	30.67	30.67
40	30.90	30.90
50	31.08	31.08
60	31.31	31.19
--	-	-

COSEL

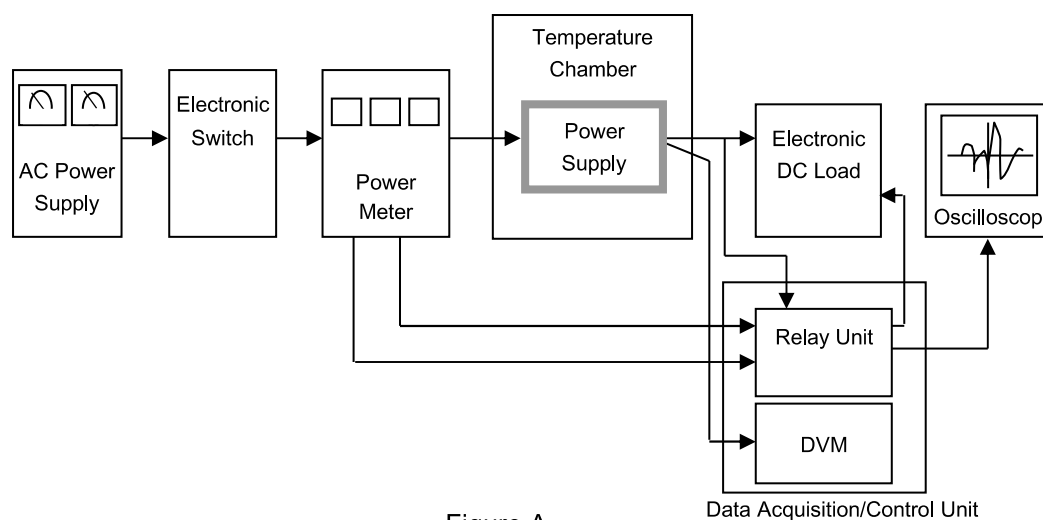


Figure A

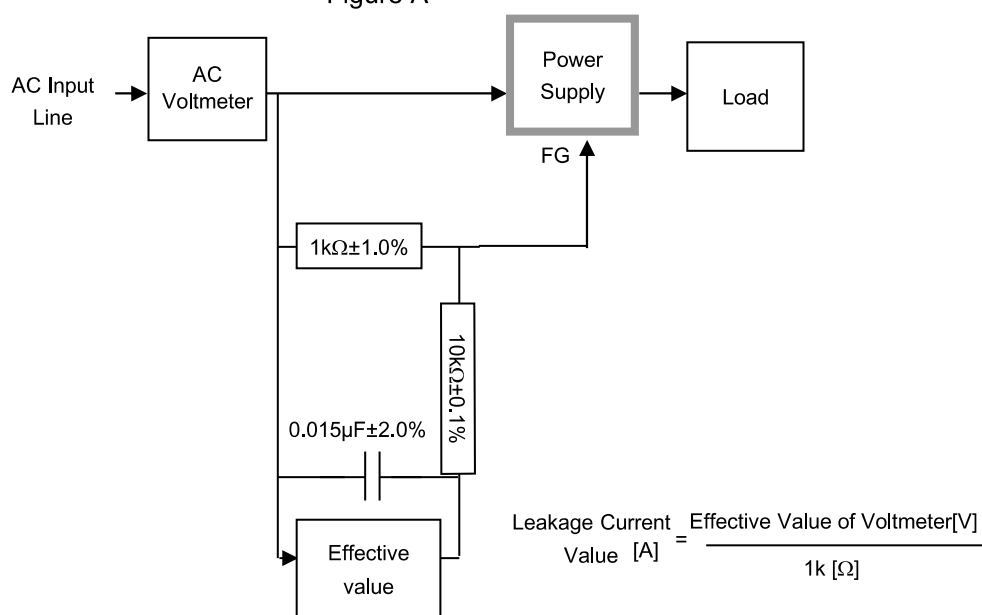


Figure B (IEC60601-1)

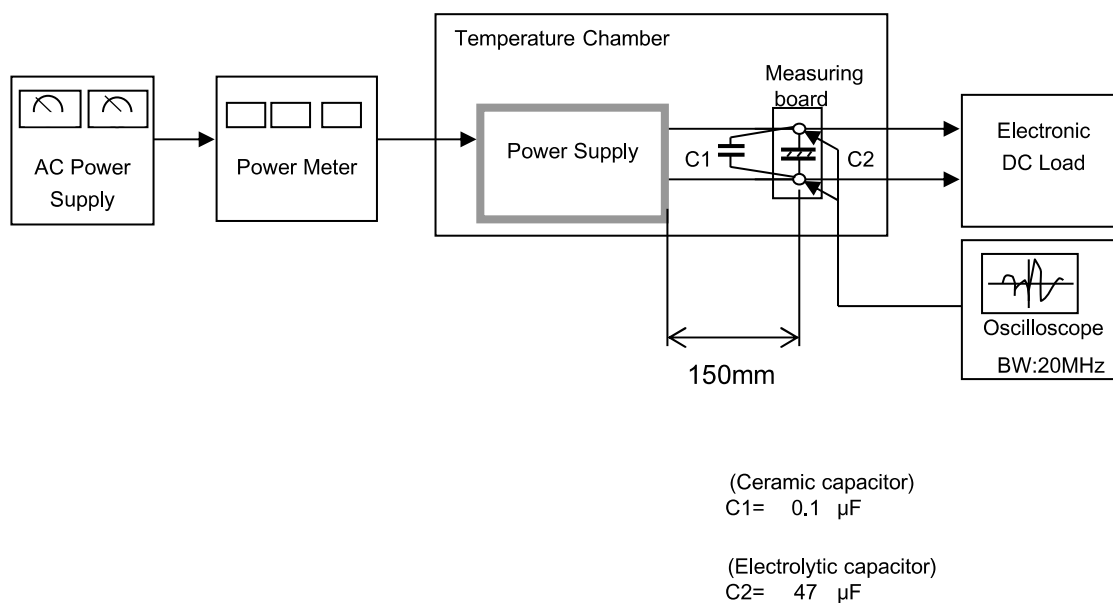


Figure C