

TEST DATA OF PDA30F-5

Regulated DC Power Supply
November 24, 2023

Approved by : Tetsukazu Okamoto
Design Manager

Prepared by : Takaaki Sekiguchi
Design Engineer

COSEL CO.,LTD.

CONTENTS

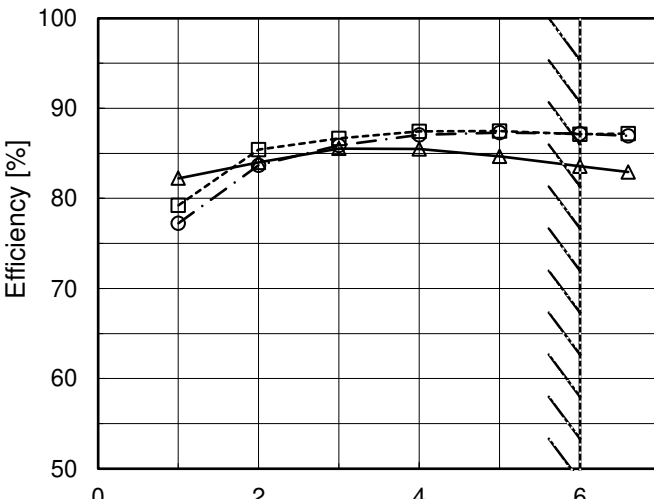
1.Input Current (by Load Current)	1
2.Efficiency (by Load Current)	2
3.Power Factor (by Load Current)	3
4.Inrush Current	4
5.Leakage Current	5
6.Line Regulation	6
7.Load Regulation	7
8.Ripple-Noise	7
9.Dynamic Load Response	8
10.Rise and Fall Time	9
11.Hold-Up Time	10
12.Instantaneous Interruption Compensation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

(Final Page 15)

COSEL

Model		PDA30F-5		Temperature 25°C																																																				
Item		Input Current (by Load Current)		Testing Circuitry Figure A																																																				
Object		_____																																																						
1.Graph				2.Values																																																				
<div><div><div><div>—△—</div><div>Input Volt.</div><div>100V</div></div><div><div>---□---</div><div>Input Volt.</div><div>200V</div></div><div><div>---○---</div><div>Input Volt.</div><div>230V</div></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></div>				<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. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.0</td><td>0.014</td><td>0.022</td><td>0.025</td></tr><tr><td>1.0</td><td>0.128</td><td>0.084</td><td>0.077</td></tr><tr><td>2.0</td><td>0.226</td><td>0.138</td><td>0.125</td></tr><tr><td>3.0</td><td>0.317</td><td>0.191</td><td>0.174</td></tr><tr><td>4.0</td><td>0.414</td><td>0.244</td><td>0.220</td></tr><tr><td>5.0</td><td>0.515</td><td>0.298</td><td>0.269</td></tr><tr><td>6.0</td><td>0.617</td><td>0.354</td><td>0.319</td></tr><tr><td>6.6</td><td>0.682</td><td>0.388</td><td>0.350</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. 200[V]	Input Volt. 230[V]	0.0	0.014	0.022	0.025	1.0	0.128	0.084	0.077	2.0	0.226	0.138	0.125	3.0	0.317	0.191	0.174	4.0	0.414	0.244	0.220	5.0	0.515	0.298	0.269	6.0	0.617	0.354	0.319	6.6	0.682	0.388	0.350	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Input Current [A]																																																							
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																					
0.0	0.014	0.022	0.025																																																					
1.0	0.128	0.084	0.077																																																					
2.0	0.226	0.138	0.125																																																					
3.0	0.317	0.191	0.174																																																					
4.0	0.414	0.244	0.220																																																					
5.0	0.515	0.298	0.269																																																					
6.0	0.617	0.354	0.319																																																					
6.6	0.682	0.388	0.350																																																					
--	-	-	-																																																					
--	-	-	-																																																					
--	-	-	-																																																					

COSEL

Model		PDA30F-5		Temperature 25°C																																																				
Item		Efficiency (by Load Current)		Testing Circuitry Figure A																																																				
Object		_____																																																						
1.Graph		<div><div><div>—△—</div><div>Input Volt.</div><div>100V</div></div><div><div>---□---</div><div>Input Volt.</div><div>200V</div></div><div><div>---○---</div><div>Input Volt.</div><div>230V</div></div></div>  <div>Efficiency [%]</div> <div>Load Current [A]</div>		2.Values																																																				
		<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. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>1.0</td><td>82.2</td><td>79.2</td><td>77.3</td></tr><tr><td>2.0</td><td>84.0</td><td>85.4</td><td>83.7</td></tr><tr><td>3.0</td><td>85.5</td><td>86.7</td><td>85.9</td></tr><tr><td>4.0</td><td>85.5</td><td>87.4</td><td>87.0</td></tr><tr><td>5.0</td><td>84.7</td><td>87.5</td><td>87.3</td></tr><tr><td>6.0</td><td>83.6</td><td>87.1</td><td>87.2</td></tr><tr><td>6.6</td><td>82.9</td><td>87.2</td><td>87.0</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]	Efficiency [%]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	-	-	-	1.0	82.2	79.2	77.3	2.0	84.0	85.4	83.7	3.0	85.5	86.7	85.9	4.0	85.5	87.4	87.0	5.0	84.7	87.5	87.3	6.0	83.6	87.1	87.2	6.6	82.9	87.2	87.0	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Efficiency [%]																																																							
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																					
0.0	-	-	-																																																					
1.0	82.2	79.2	77.3																																																					
2.0	84.0	85.4	83.7																																																					
3.0	85.5	86.7	85.9																																																					
4.0	85.5	87.4	87.0																																																					
5.0	84.7	87.5	87.3																																																					
6.0	83.6	87.1	87.2																																																					
6.6	82.9	87.2	87.0																																																					
--	-	-	-																																																					
--	-	-	-																																																					
--	-	-	-																																																					
Note: Slanted line shows the range of the rated load current.																																																								

-

2

-

BC-11956

COSEL

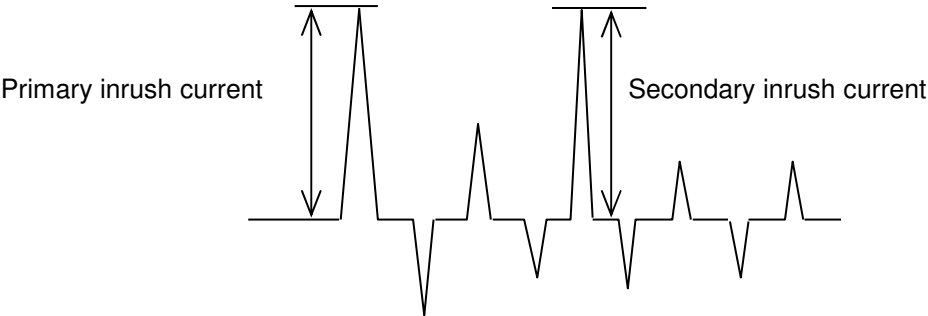
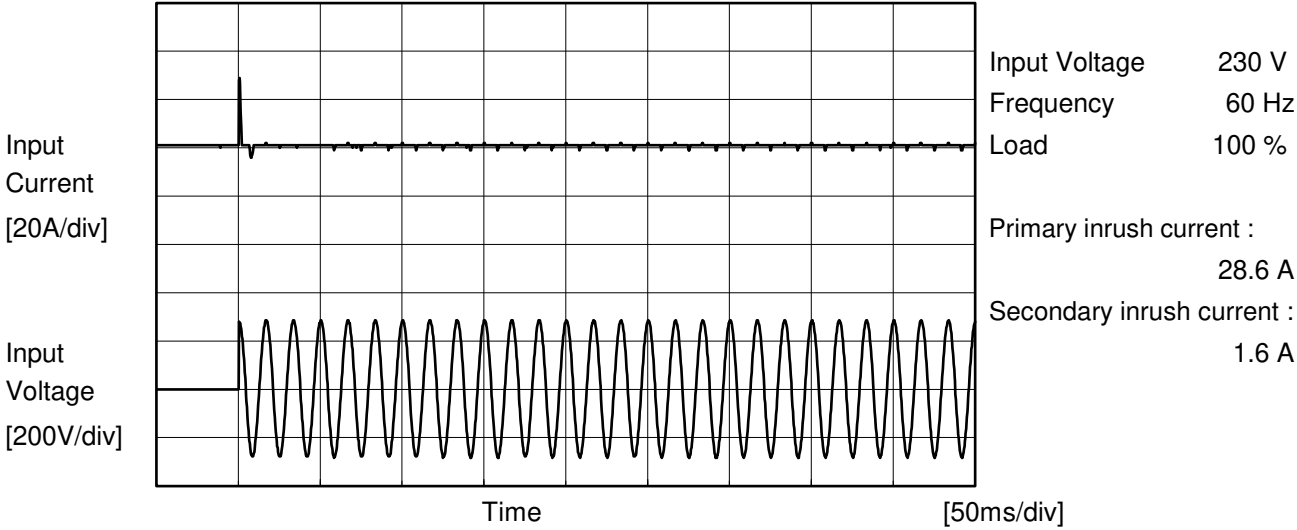
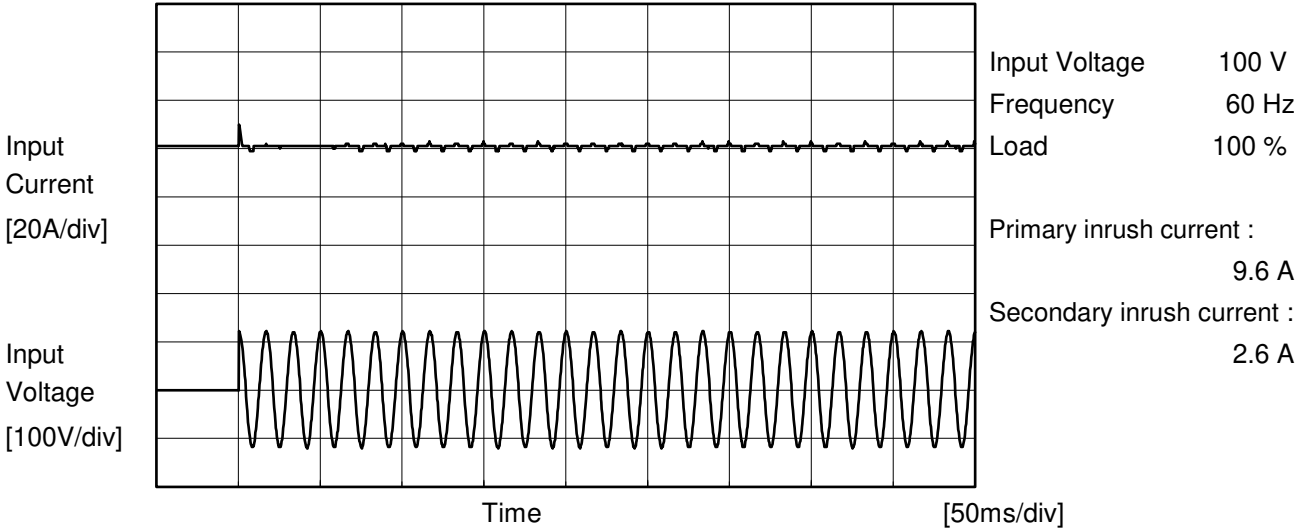
Model	PDA30F-5																																																					
Item	Power Factor (by Load Current)	Temperature	25°C																																																			
		Testing Circuitry	Figure A																																																			
Object	_____																																																					
1.Graph		2.Values																																																				
<div><div>—△— Input Volt. 100V</div><div>---□--- Input Volt. 200V</div><div>-·-○-·- Input Volt. 230V</div></div> <p>Power Factor</p> <p>Load Current [A]</p> <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">Power Factor</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.0</td><td>0.215</td><td>0.125</td><td>0.116</td></tr><tr><td>1.0</td><td>0.479</td><td>0.380</td><td>0.368</td></tr><tr><td>2.0</td><td>0.533</td><td>0.428</td><td>0.419</td></tr><tr><td>3.0</td><td>0.559</td><td>0.458</td><td>0.443</td></tr><tr><td>4.0</td><td>0.571</td><td>0.475</td><td>0.458</td></tr><tr><td>5.0</td><td>0.580</td><td>0.485</td><td>0.468</td></tr><tr><td>6.0</td><td>0.588</td><td>0.493</td><td>0.475</td></tr><tr><td>6.6</td><td>0.590</td><td>0.493</td><td>0.477</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]	Power Factor			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	0.215	0.125	0.116	1.0	0.479	0.380	0.368	2.0	0.533	0.428	0.419	3.0	0.559	0.458	0.443	4.0	0.571	0.475	0.458	5.0	0.580	0.485	0.468	6.0	0.588	0.493	0.475	6.6	0.590	0.493	0.477	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Power Factor																																																					
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
0.0	0.215	0.125	0.116																																																			
1.0	0.479	0.380	0.368																																																			
2.0	0.533	0.428	0.419																																																			
3.0	0.559	0.458	0.443																																																			
4.0	0.571	0.475	0.458																																																			
5.0	0.580	0.485	0.468																																																			
6.0	0.588	0.493	0.475																																																			
6.6	0.590	0.493	0.477																																																			
--	-	-	-																																																			
--	-	-	-																																																			
--	-	-	-																																																			

- 3 -

BC-11956



Model	PDA30F-5	Temperature	25°C
Item	Inrush Current	Testing Circuitry	Figure A
Object			





COSEL		Temperature 25°C Testing Circuitry Figure C
Model	PDA30F-5	
Item	Leakage Current	
Object	_____	

1.Results

[mA]

Standards	Testing Circuitry	Measuring Method	Input Volt.			Note
			100 [V]	230 [V]	240 [V]	
DEN-AN	Figure C-1	Both phases	0.16	0.41	0.43	Operation
		One of phases	0.24	0.60	0.63	Stand by
IEC62368-1	Figure C-2	Both phases	0.16	0.40	0.42	Operation
		One of phases	0.24	0.59	0.62	Stand by
	Figure C-3	Both phases	0.16	0.40	0.42	Operation
		One of phases	0.24	0.59	0.62	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.

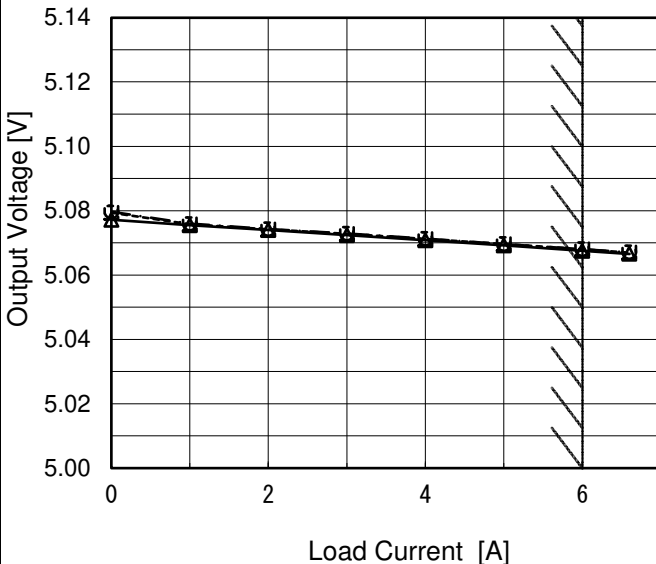
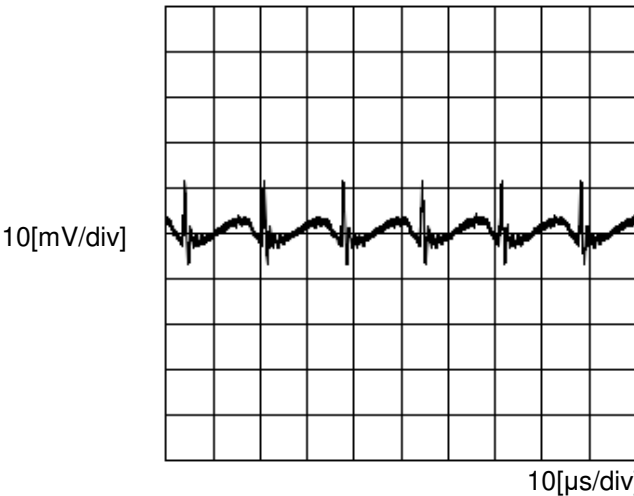
COSEL

<div>LOREL</div>																																			
Model	PDA30F-5																																		
Item	Line Regulation	Temperature	25°C																																
Object	+5V6A	Testing Circuitry	Figure A																																
1.Graph		2.Values																																	
<div><div><div><div><div>---</div><div>□</div><div>---</div></div><div>Load 50%</div></div><div><div>—</div><div>△</div><div>—</div></div><div>Load 100%</div></div></div> <div><div><div>Output Voltage [V]</div><div><div><div><div>5.14</div><div>5.12</div><div>5.10</div><div>5.08</div><div>5.06</div><div>5.04</div><div>5.02</div><div>5.00</div></div><div><div><div><div><div>50</div><div>100</div><div>150</div><div>200</div><div>250</div><div>300</div></div></div><div><div>Input Voltage [V]</div></div></div></div><div><div><div><div><div>5.14</div><div>5.12</div><div>5.10</div><div>5.08</div><div>5.06</div><div>5.04</div><div>5.02</div><div>5.00</div></div><div><div><div><div><div>50</div><div>100</div><div>150</div><div>200</div><div>250</div><div>300</div></div></div><div><div>Input Voltage [V]</div></div></div></div></div></div></div></div></div></div></div>		<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>5.072</td><td>-</td></tr><tr><td>90</td><td>5.072</td><td>5.068</td></tr><tr><td>100</td><td>5.072</td><td>5.068</td></tr><tr><td>120</td><td>5.072</td><td>5.068</td></tr><tr><td>200</td><td>5.072</td><td>5.068</td></tr><tr><td>230</td><td>5.072</td><td>5.068</td></tr><tr><td>264</td><td>5.072</td><td>5.068</td></tr><tr><td>280</td><td>5.072</td><td>5.068</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	85	5.072	-	90	5.072	5.068	100	5.072	5.068	120	5.072	5.068	200	5.072	5.068	230	5.072	5.068	264	5.072	5.068	280	5.072	5.068	--	-	-
Input Voltage [V]	Output Voltage [V]																																		
	Load 50%	Load 100%																																	
85	5.072	-																																	
90	5.072	5.068																																	
100	5.072	5.068																																	
120	5.072	5.068																																	
200	5.072	5.068																																	
230	5.072	5.068																																	
264	5.072	5.068																																	
280	5.072	5.068																																	
--	-	-																																	
<div>Note: Slanted line shows the range of the rated input voltage.</div>																																			

-6-

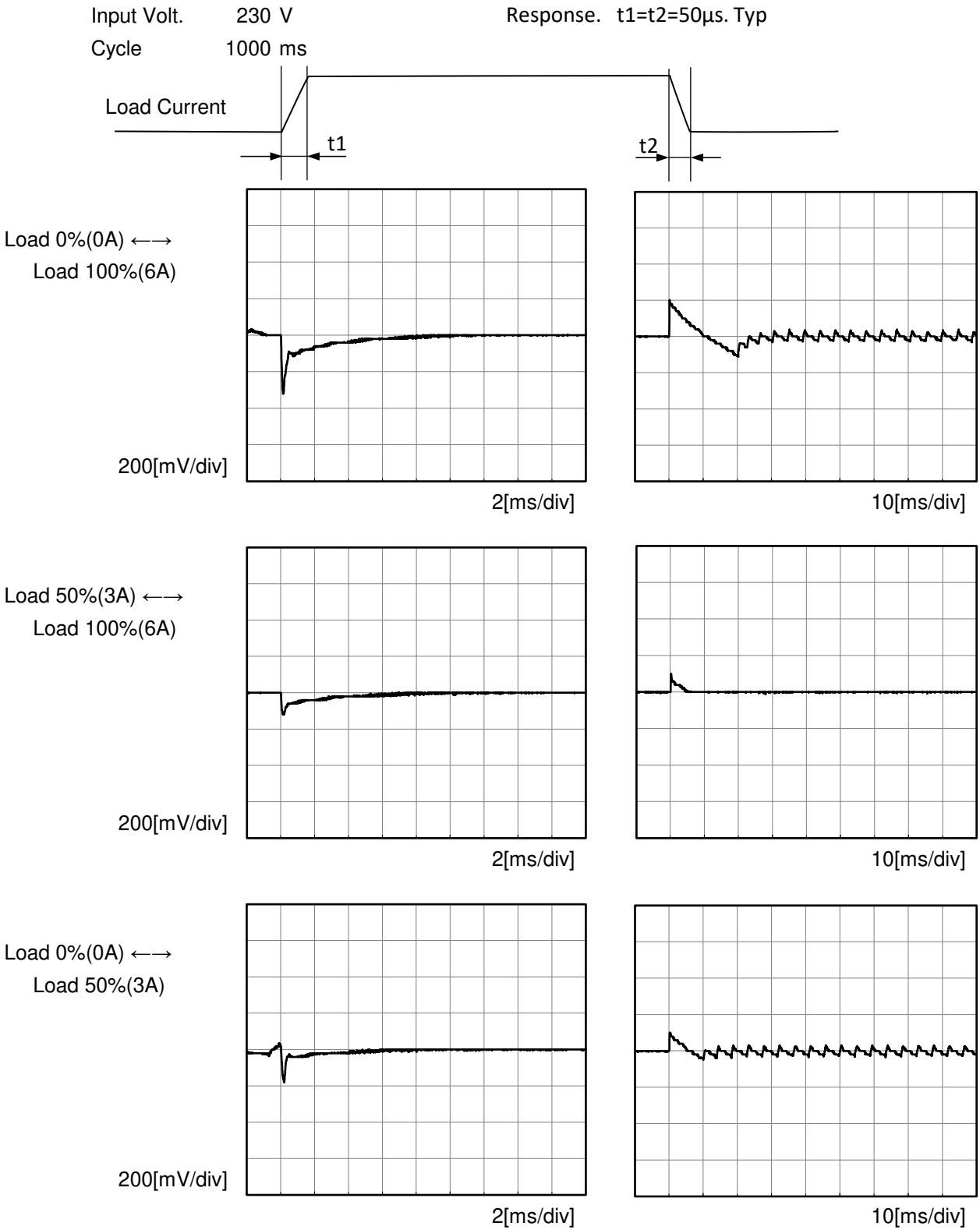
BC-11956

COSEL

Model	PDA30F-5	Temperature	25°C																																																			
Item	Load Regulation	Testing Circuitry	Figure A																																																			
Object	+5V6A																																																					
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>Input Volt.</div><div>100V</div></div><div><div>---□---</div><div>Input Volt.</div><div>200V</div></div><div><div>---○---</div><div>Input Volt.</div><div>230V</div></div></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. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.0</td><td>5.077</td><td>5.079</td><td>5.080</td></tr><tr><td>1.0</td><td>5.076</td><td>5.076</td><td>5.076</td></tr><tr><td>2.0</td><td>5.074</td><td>5.074</td><td>5.074</td></tr><tr><td>3.0</td><td>5.072</td><td>5.073</td><td>5.073</td></tr><tr><td>4.0</td><td>5.071</td><td>5.071</td><td>5.071</td></tr><tr><td>5.0</td><td>5.069</td><td>5.070</td><td>5.070</td></tr><tr><td>6.0</td><td>5.068</td><td>5.068</td><td>5.068</td></tr><tr><td>6.6</td><td>5.067</td><td>5.067</td><td>5.067</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]	Output Voltage [V]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	5.077	5.079	5.080	1.0	5.076	5.076	5.076	2.0	5.074	5.074	5.074	3.0	5.072	5.073	5.073	4.0	5.071	5.071	5.071	5.0	5.069	5.070	5.070	6.0	5.068	5.068	5.068	6.6	5.067	5.067	5.067	--	--	--	--	--	--	--	--	--	--	--	--
Load Current [A]	Output Voltage [V]																																																					
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
0.0	5.077	5.079	5.080																																																			
1.0	5.076	5.076	5.076																																																			
2.0	5.074	5.074	5.074																																																			
3.0	5.072	5.073	5.073																																																			
4.0	5.071	5.071	5.071																																																			
5.0	5.069	5.070	5.070																																																			
6.0	5.068	5.068	5.068																																																			
6.6	5.067	5.067	5.067																																																			
--	--	--	--																																																			
--	--	--	--																																																			
--	--	--	--																																																			
Item	Ripple-Noise	Temperature	25°C																																																			
Object	+5V6A	Testing Circuitry	Figure B																																																			
1.Graph																																																						
<div><div><div>Input Voltage</div><div>230V</div></div><div><div>Load</div><div>100%</div></div></div> 																																																						



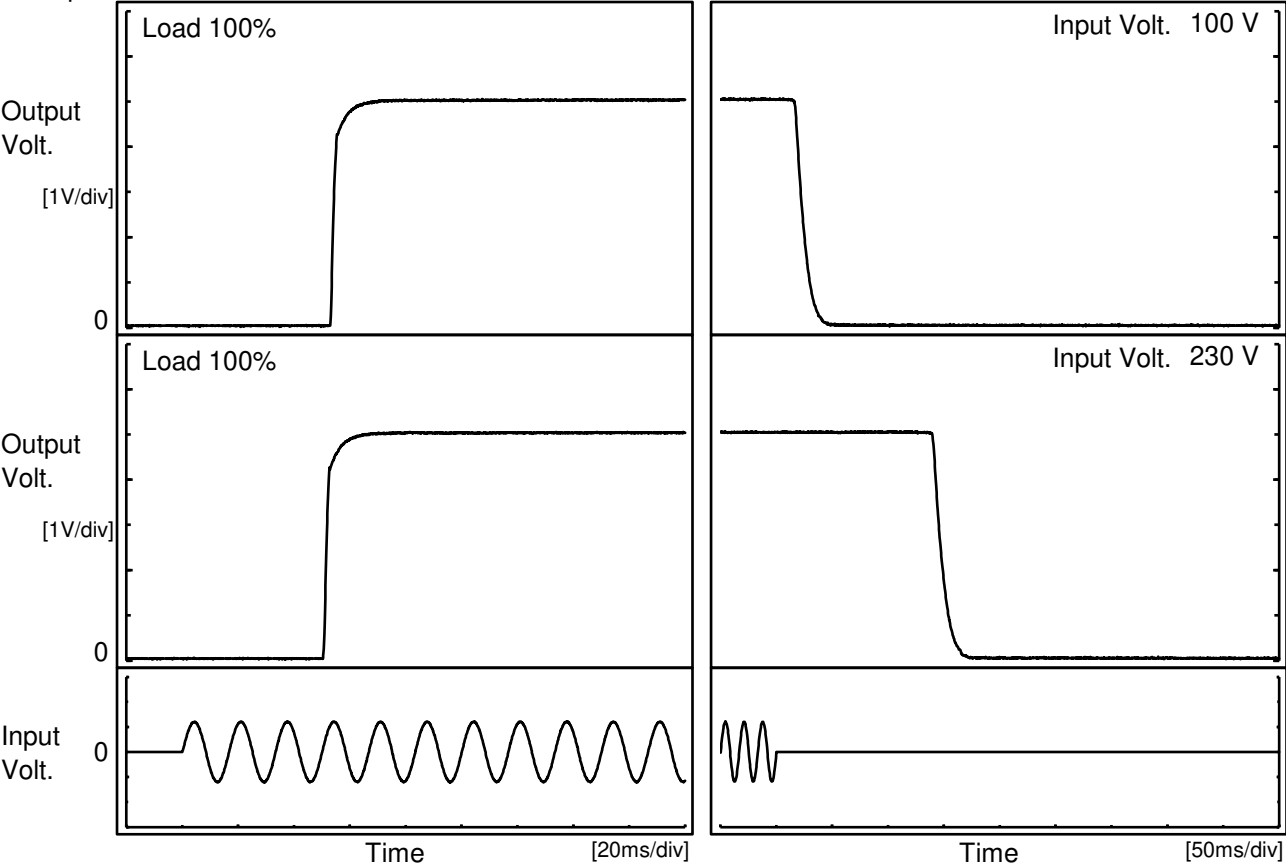
Model	PDA30F-5		
Item	Dynamic Load Response	Temperature	25°C
Object	+5V6A	Testing Circuitry	Figure A





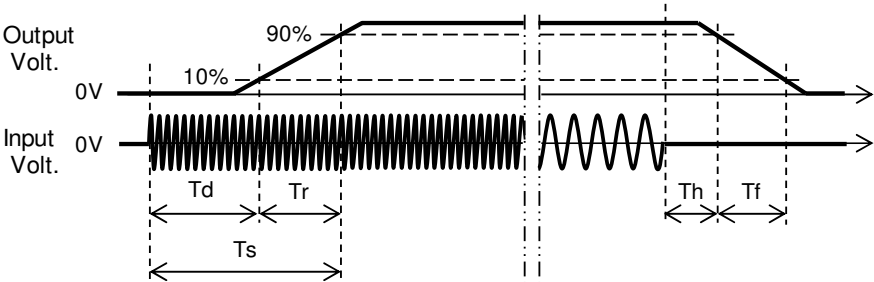
Model		PDA30F-5	Temperature 25°C Testing Circuitry Figure A
Item		Rise and Fall Time	
Object		+5V6A	

1.Graph



2.Values

		[ms]				
Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		53.4	4.1	57.5	26.0	16.0
230 V		50.9	3.9	54.8	192.0	17.0



COSEL

<div>LOREL</div>			
Model	PDA30F-5		
Item	Hold-Up Time	Temperature	25°C
		Testing Circuitry	Figure A
Object	+5V6A		
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></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <			

COSEL

Model		PDA30F-5																																																				
Item		Instantaneous Interruption Compensation																																																				
Object		+5V6A																																																				
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>Input Volt.</div><div>100V</div></div><div><div>---□---</div><div>Input Volt.</div><div>200V</div></div><div><div>---○---</div><div>Input Volt.</div><div>230V</div></div></div> <p>Instantaneous Compensation Time [ms]</p> <p>Load Current [A]</p> <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">Time [ms]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>1.0</td><td>199</td><td>836</td><td>1110</td></tr><tr><td>2.0</td><td>98</td><td>439</td><td>578</td></tr><tr><td>3.0</td><td>63</td><td>296</td><td>398</td></tr><tr><td>4.0</td><td>45</td><td>220</td><td>298</td></tr><tr><td>5.0</td><td>32</td><td>173</td><td>235</td></tr><tr><td>6.0</td><td>26</td><td>140</td><td>193</td></tr><tr><td>6.6</td><td>22</td><td>124</td><td>172</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. 200[V]	Input Volt. 230[V]	0.0	-	-	-	1.0	199	836	1110	2.0	98	439	578	3.0	63	296	398	4.0	45	220	298	5.0	32	173	235	6.0	26	140	193	6.6	22	124	172	--	-	-	-	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																					
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]																																																			
0.0	-	-	-																																																			
1.0	199	836	1110																																																			
2.0	98	439	578																																																			
3.0	63	296	398																																																			
4.0	45	220	298																																																			
5.0	32	173	235																																																			
6.0	26	140	193																																																			
6.6	22	124	172																																																			
--	-	-	-																																																			
--	-	-	-																																																			
--	-	-	-																																																			

COSEL

Model	PDA30F-5																																											
Item	Overcurrent Protection	Temperature	25°C																																									
Object	+5V6A	Testing Circuitry	Figure A																																									
1.Graph		2.Values																																										
<div><div><div></div>Input Volt. 100V</div><div><div></div>Input Volt. 230V</div></div> <p>Note: Slanted line shows the range of the rated load current.</p> <p>Overcurrent protection is Hiccup mode.</p>		<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="2">Load Current [A]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>5.00</td><td>7.32</td><td>7.41</td></tr><tr><td>4.75</td><td>-</td><td>-</td></tr><tr><td>4.50</td><td>-</td><td>-</td></tr><tr><td>4.00</td><td>-</td><td>-</td></tr><tr><td>3.50</td><td>-</td><td>-</td></tr><tr><td>3.00</td><td>-</td><td>-</td></tr><tr><td>2.50</td><td>-</td><td>-</td></tr><tr><td>2.00</td><td>-</td><td>-</td></tr><tr><td>1.50</td><td>-</td><td>-</td></tr><tr><td>1.00</td><td>-</td><td>-</td></tr><tr><td>0.50</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. 100[V]	Input Volt. 230[V]	5.00	7.32	7.41	4.75	-	-	4.50	-	-	4.00	-	-	3.50	-	-	3.00	-	-	2.50	-	-	2.00	-	-	1.50	-	-	1.00	-	-	0.50	-	-	0.00	-	-
Output Voltage [V]	Load Current [A]																																											
	Input Volt. 100[V]	Input Volt. 230[V]																																										
5.00	7.32	7.41																																										
4.75	-	-																																										
4.50	-	-																																										
4.00	-	-																																										
3.50	-	-																																										
3.00	-	-																																										
2.50	-	-																																										
2.00	-	-																																										
1.50	-	-																																										
1.00	-	-																																										
0.50	-	-																																										
0.00	-	-																																										

COSEL

		Testing Circuitry Figure A	
Model	PDA30F-5		
Item	Ambient Temperature Drift		
Object	+5V6A		
1.Values		Load 100%	
Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 100V	Input Volt. 200V	Input Volt. 230V
-10	5.050	5.050	5.050
25	5.068	5.068	5.068
55	5.073	5.074	5.074
Item		Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry Figure A
Object	+5V6A		
1.Values			
Ambient Temperature [°C]	Input Voltage [V]		
	Load 50%	Load 100%	
-10	33	52	
25	32	51	
55	32	51	
Item		Overvoltage Protection	Testing Circuitry Figure A
Object	+5V6A		
1.Values		Load 0%	
Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 100V	Input Volt. 230V	
-20	6.23	6.23	
25	6.23	6.23	
55	6.16	6.16	

- 13 -

BC-11956

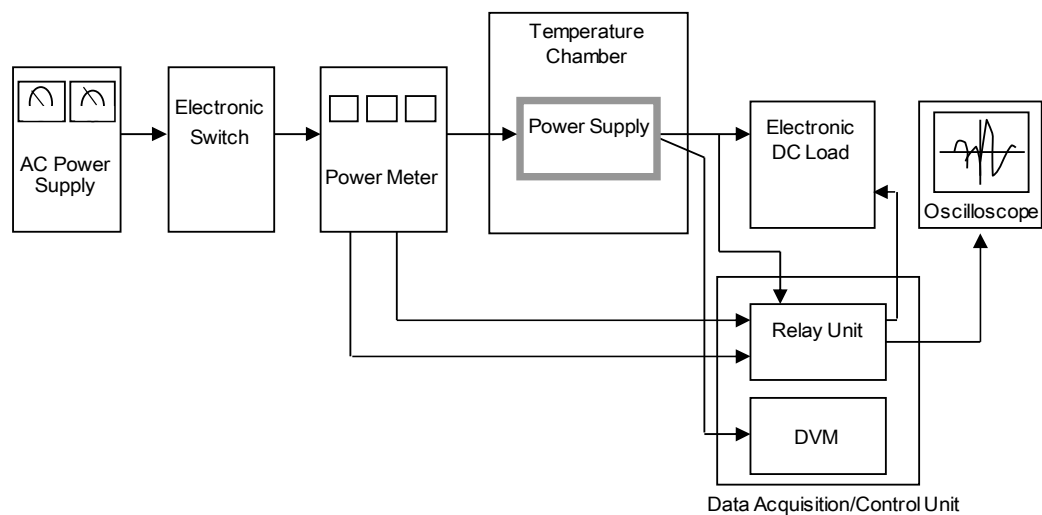


Figure A

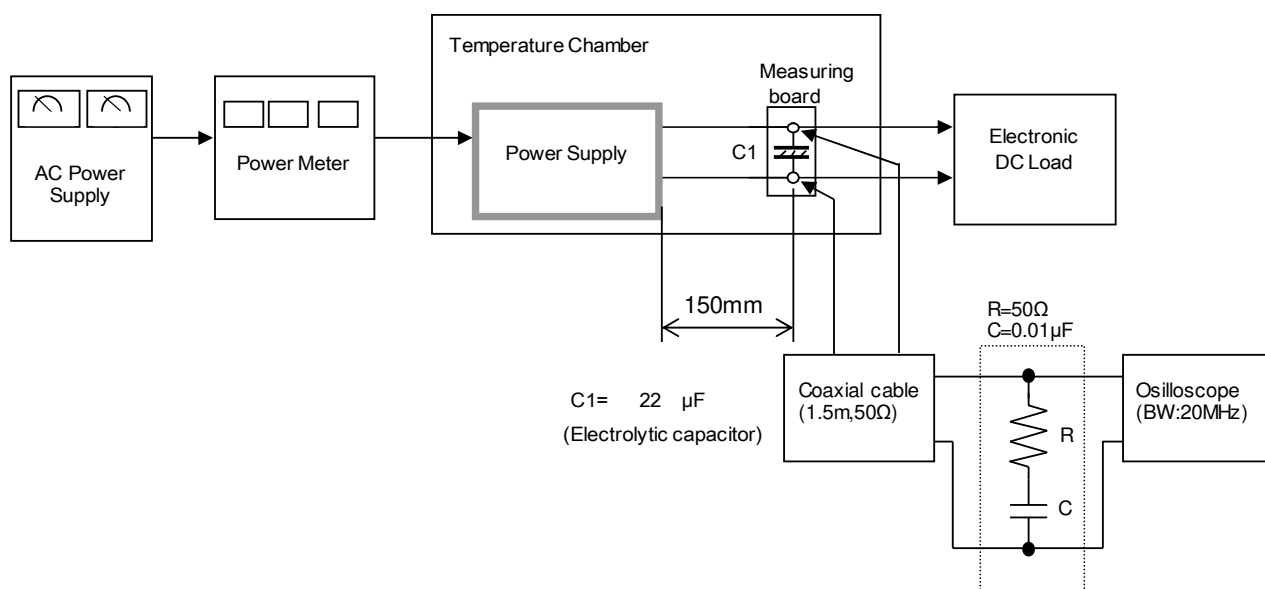


Figure B

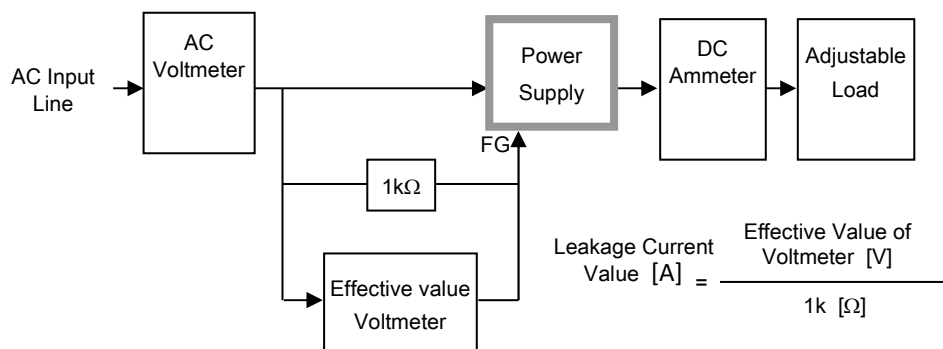


Figure C-1 (DEN-AN)

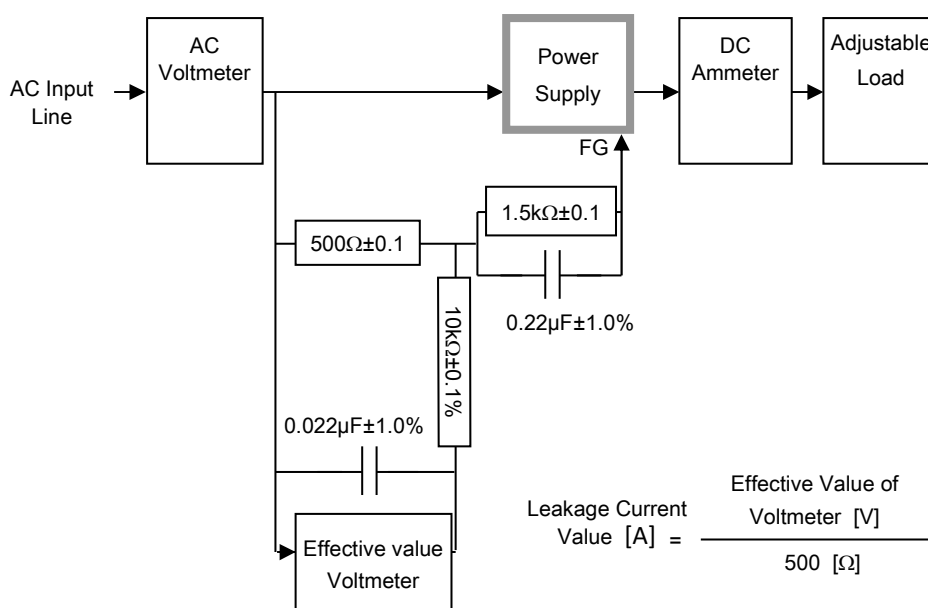


Figure C-2 (IEC62368-1 refer to IEC60990 Fig.4)

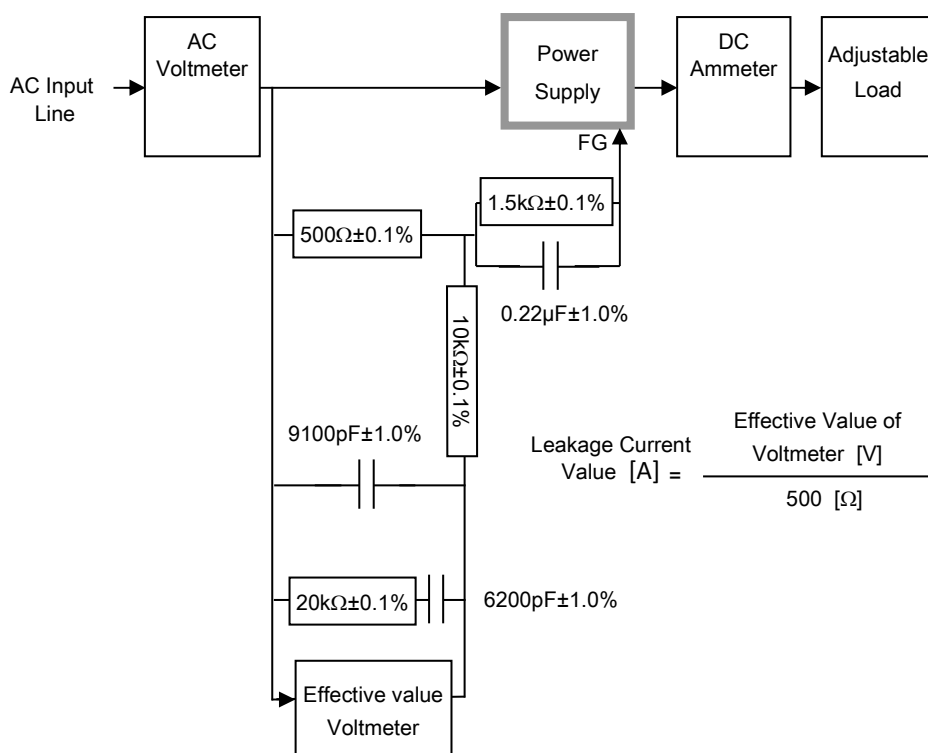


Figure C-3 (IEC62368-1 refer to IEC60990 Fig.5)