

COSEL

TEST DATA OF PBA300F-7R5

Regulated DC Power Supply

May 28, 2004

Approved by : Takahiro Yoneda
Takahiro Yoneda Design Manager

Prepared by : Hajime Goto Hajime Goto Design Engineer

COSEL CO.,LTD.

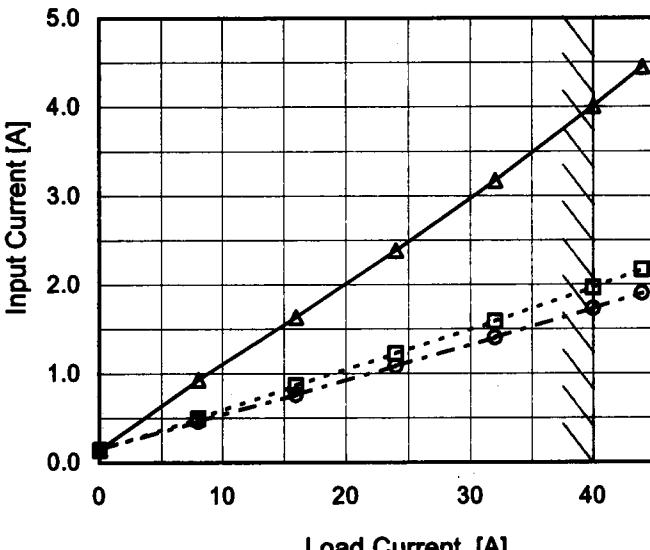


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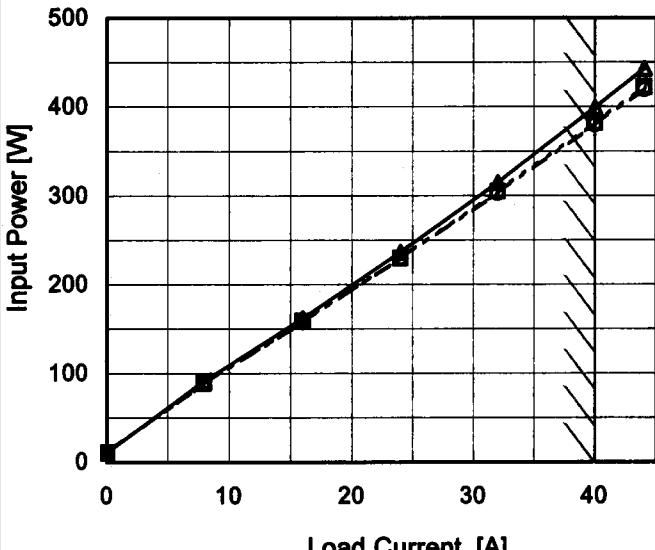
(Final Page 24)

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Model	PBA300F-7R5		
Item	Input Current (by Load Current)		
Object	_____		
1.Graph	<p>—△— Input Volt. 100V - - □ - - Input Volt. 200V - - ○ - - Input Volt. 230V</p>  <p>The graph plots Input Current [A] on the y-axis (0.0 to 5.0) against Load Current [A] on the x-axis (0 to 40). Three curves are shown for different input voltages: 100V (solid line with triangles), 200V (dashed line with squares), and 230V (dash-dot line with circles). A slanted line from the origin represents the rated load current range.</p>		
Temperature	25°C		
Testing Circuitry	Figure A		
2.Values			
Load Current [A]	Input Current [A]		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
0	0.144	0.144	0.150
8	0.930	0.496	0.462
16	1.635	0.866	0.762
24	2.384	1.224	1.086
32	3.170	1.588	1.404
40	4.010	1.970	1.732
44	4.450	2.170	1.904
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

Note: Slanted line shows the range of the rated load current.

COSEL

Model	PBA300F-7R5		
Item	Input Power (by Load Current)		
Object	_____		
1.Graph	—△— Input Volt. 100V	—□— Input Volt. 200V	—○— Input Volt. 230V
			
Note:	Slanted line shows the range of the rated load current.		
Temperature	25°C		
Testing Circuitry	Figure A		
2.Values			
Load Current [A]	Input Power [W]		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
0	10.8	11.0	11.0
8	91.2	89.0	89.0
16	162.0	159.0	158.0
24	236.8	230.0	230.0
32	315.0	305.0	303.0
40	399.0	382.0	380.0
44	443.0	422.0	420.0
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

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Model	PBA300F-7R5	Temperature Testing Circuitry	25°C Figure A																													
Item	Efficiency (by Input Voltage)																															
Object	—																															
1. Graph			2. Values																													
<p>Graph showing Efficiency (%) vs Input Voltage (V) for PBA300F-7R5 at 25°C. The graph shows two curves: Load 50% (dashed line with square markers) and Load 100% (solid line with triangle markers). Both curves show efficiency increasing slightly as input voltage increases from 80V to 280V. A slanted line indicates the rated input voltage range.</p> <table border="1"> <thead> <tr> <th>Input Voltage [V]</th> <th>Efficiency Load 50% [%]</th> <th>Efficiency Load 100% [%]</th> </tr> </thead> <tbody> <tr><td>80</td><td>75.1</td><td>73.7</td></tr> <tr><td>85</td><td>75.6</td><td>74.6</td></tr> <tr><td>100</td><td>76.4</td><td>76.3</td></tr> <tr><td>120</td><td>77.0</td><td>77.5</td></tr> <tr><td>200</td><td>77.9</td><td>79.5</td></tr> <tr><td>230</td><td>78.3</td><td>79.9</td></tr> <tr><td>264</td><td>79.1</td><td>80.4</td></tr> <tr><td>280</td><td>80.4</td><td>80.8</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </tbody> </table>	Input Voltage [V]	Efficiency Load 50% [%]	Efficiency Load 100% [%]	80	75.1	73.7	85	75.6	74.6	100	76.4	76.3	120	77.0	77.5	200	77.9	79.5	230	78.3	79.9	264	79.1	80.4	280	80.4	80.8	--	-	-		
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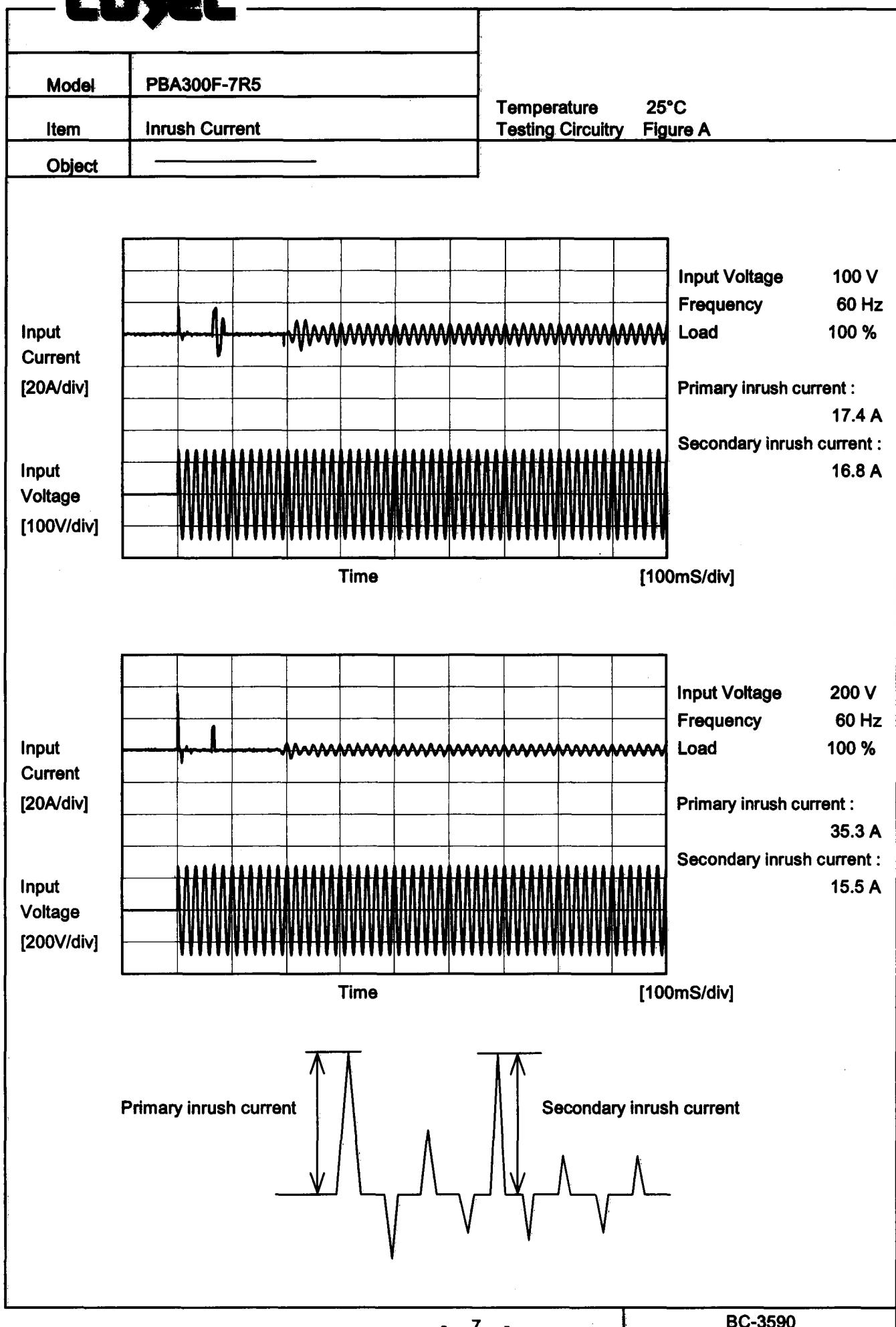
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Note: Slanted line shows the range of the rated load current.

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Model	PBA300F-7R5	Temperature	25°C
Item	Leakage Current	Testing Circuitry	Figure B
Object	_____		

1. Results

Standards		Input Volt.			Note
		100 [V]	200 [V]	230 [V]	
DEN-AN	Both phases	0.14	0.25	0.28	Operation
	One of phase	0.23	0.45	0.52	stand by
IEC60950	Both phases	0.14	0.25	0.28	Operation
	One of phase	0.23	0.45	0.52	stand by

The value for "One phase" is the reference value only.

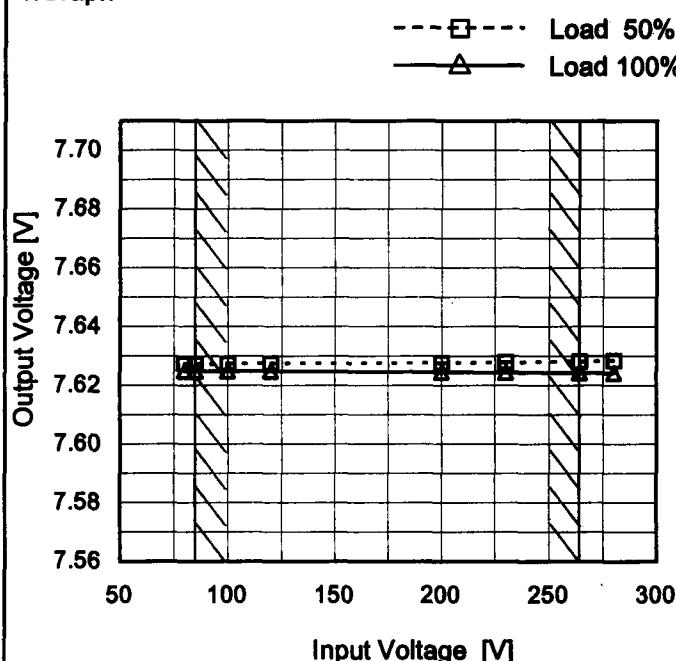
2. Condition

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

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Model	PBA300F-7R5
Item	Line Regulation
Object	+7.5V40A

1.Graph



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

Temperature 25°C
Testing Circuitry Figure A

2.Values

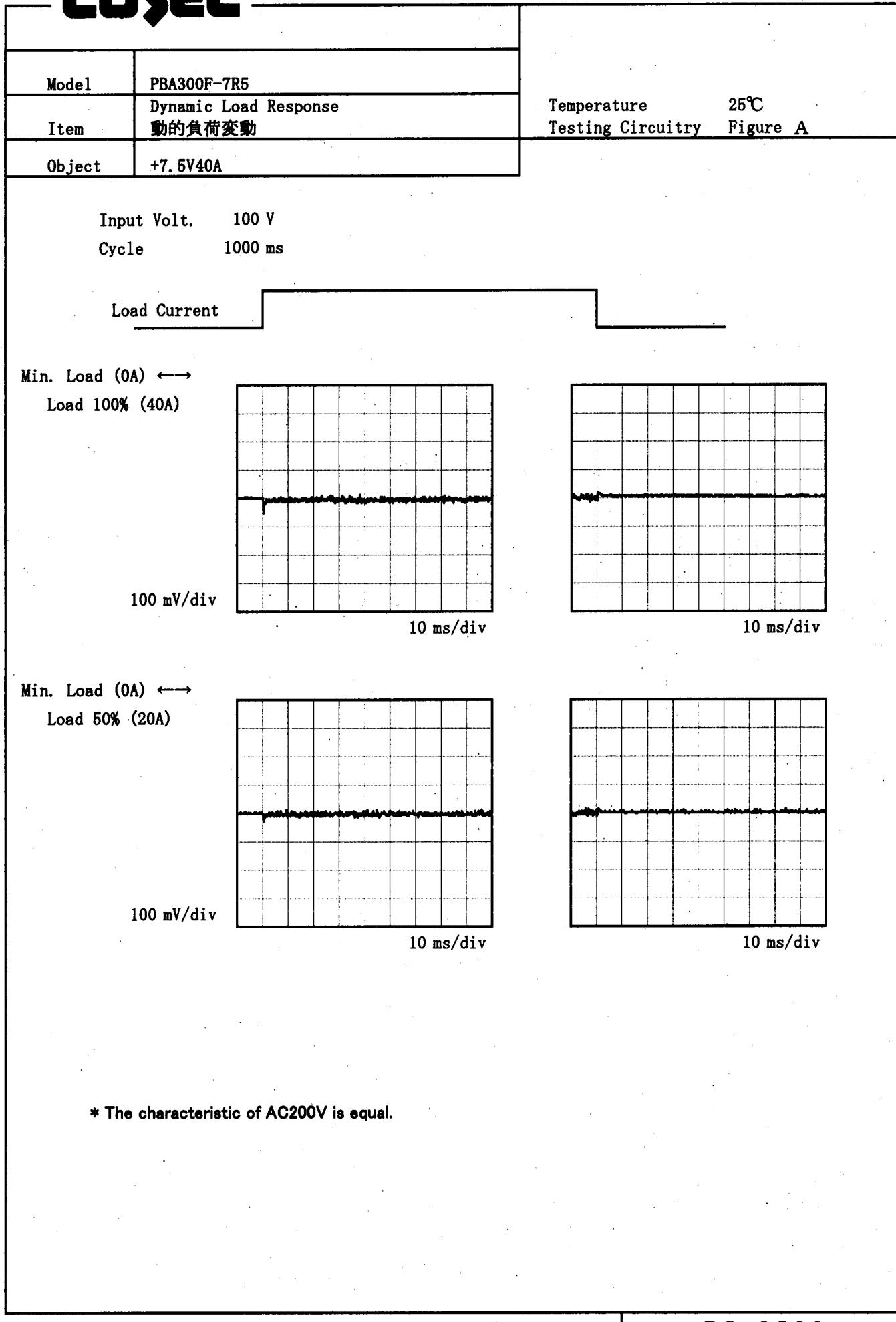
Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
80	7.627	7.625
85	7.627	7.625
100	7.627	7.625
120	7.627	7.625
200	7.628	7.625
230	7.628	7.624
264	7.628	7.624
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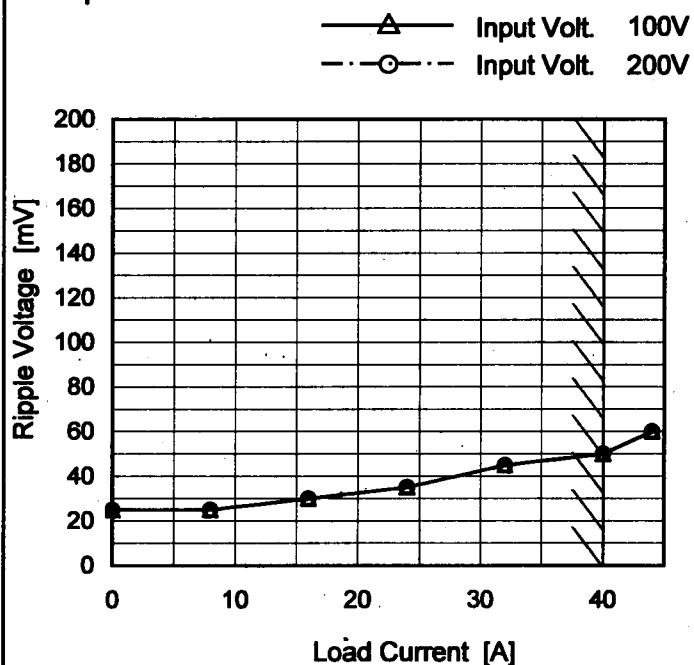
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Model	PBA300F-7R5
Item	Ripple Voltage (by Load Current)
Object	+7.5V40A

1. Graph



Measured by 20 MHz Oscilloscope.

Ripple Voltage is shown as p-p in the figure below.

Note: Slanted line shows the range of the rated load current.

Temperature 25°C
Testing Circuitry Figure A

2. Values

Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 100 [V]	Input Volt. 200 [V]
0	25	25
8	25	25
16	30	30
24	35	35
32	45	45
40	50	50
44	60	60
—	—	—
—	—	—
—	—	—
—	—	—

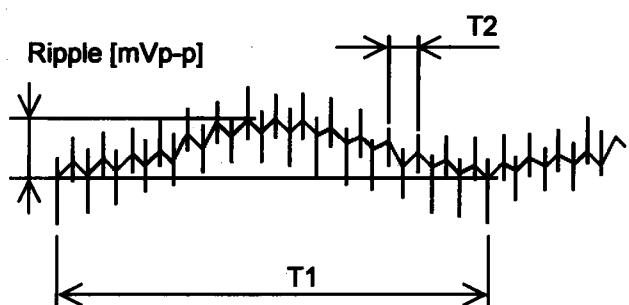
T1: Due to AC Input Line
T2: Due to Switching

Fig. Complex Ripple Wave Form

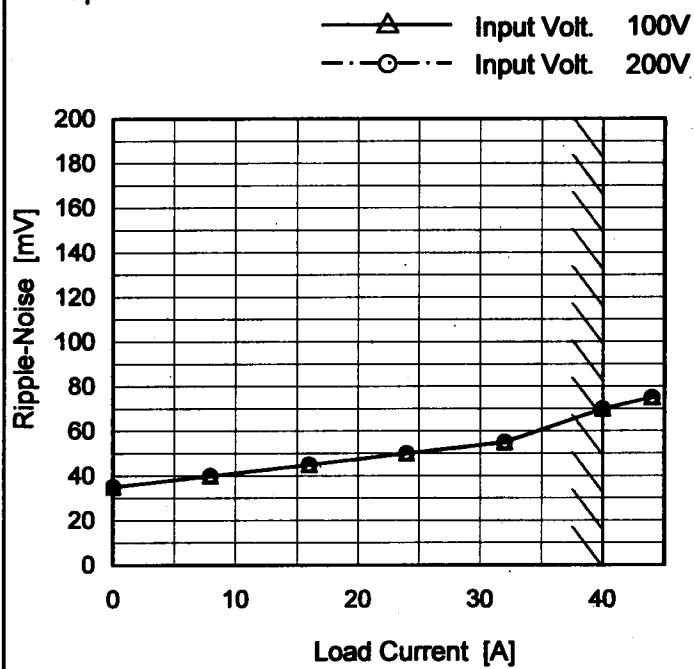
COSEL

Model PBA300F-7R5

Item Ripple-Noise

Object +7.5V40A

1. Graph



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.

Temperature 25°C
Testing Circuitry Figure A

2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 100 [V]	Input Volt. 200 [V]
0	35	35
8	40	40
16	45	45
24	50	50
32	55	55
40	70	70
44	75	75
-	-	-
-	-	-
-	-	-
-	-	-

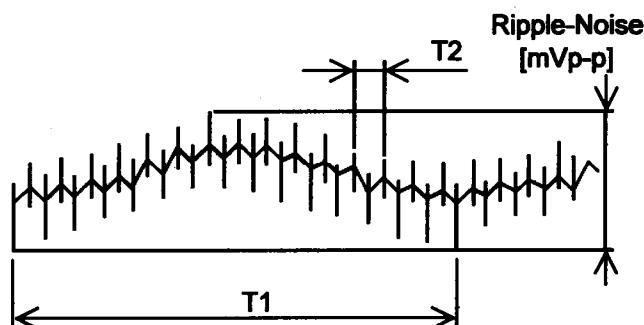
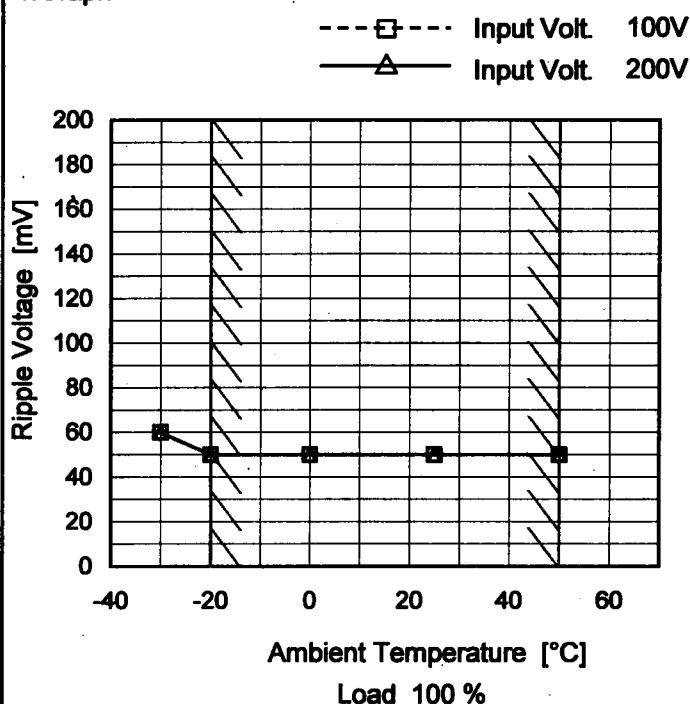
T1: Due to AC Input Line
T2: Due to Switching

Fig. Complex Ripple Wave Form

COSEL

Model	PBA300F-7R5
Item	Ripple Voltage (by Ambient Temp.)
Object	+7.5V40A

1. Graph



Measured by 20 MHz Oscilloscope.

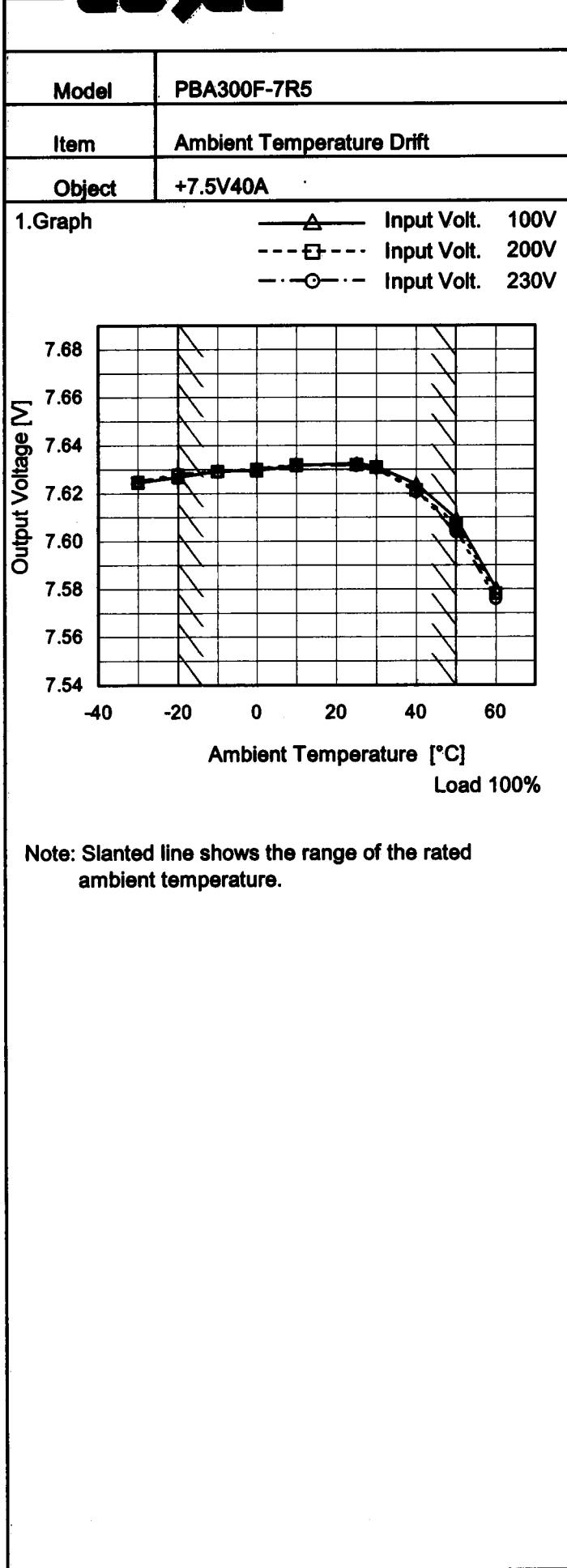
Note: Slanted line shows the range of the rated ambient temperature.

Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Input Volt. 100 [V]	Input Volt. 200 [V]
-30	60	60
-20	50	50
0	50	50
25	50	50
50	50	50
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-

COSEL



Testing Circuitry Figure A

2.Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
-30	7.625	7.625	7.625
-20	7.627	7.628	7.628
-10	7.629	7.629	7.629
0	7.630	7.630	7.630
10	7.632	7.632	7.632
25	7.633	7.632	7.632
30	7.631	7.631	7.631
40	7.624	7.621	7.621
50	7.610	7.607	7.604
60	7.580	7.578	7.576
--	-	-	-



Model	PBA300F-7R5	Testing Circuitry Figure A
Item	Output Voltage Accuracy	
Object	+7.5V40A	

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 : 85 - 264V

Load Current : 0 - 40A

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

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

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	25	264	0	7.640	±19	±0.3
Minimum Voltage	50	264	40	7.602		

COSEL

Model	PBA300F-7R5
Item	Time Lapse Drift
Object	+7.5V40A

1. Graph

Time [H]	Output Voltage [V]
0.0	7.631
0.5	7.622
1.0	7.623
2.0	7.623
3.0	7.623
4.0	7.623
5.0	7.623
6.0	7.623
7.0	7.623
8.0	7.623

Input Volt. 100V
Load 100%

* The characteristic of AC200V is equal.

Temperature 25°C
Testing Circuitry Figure A

2. Values

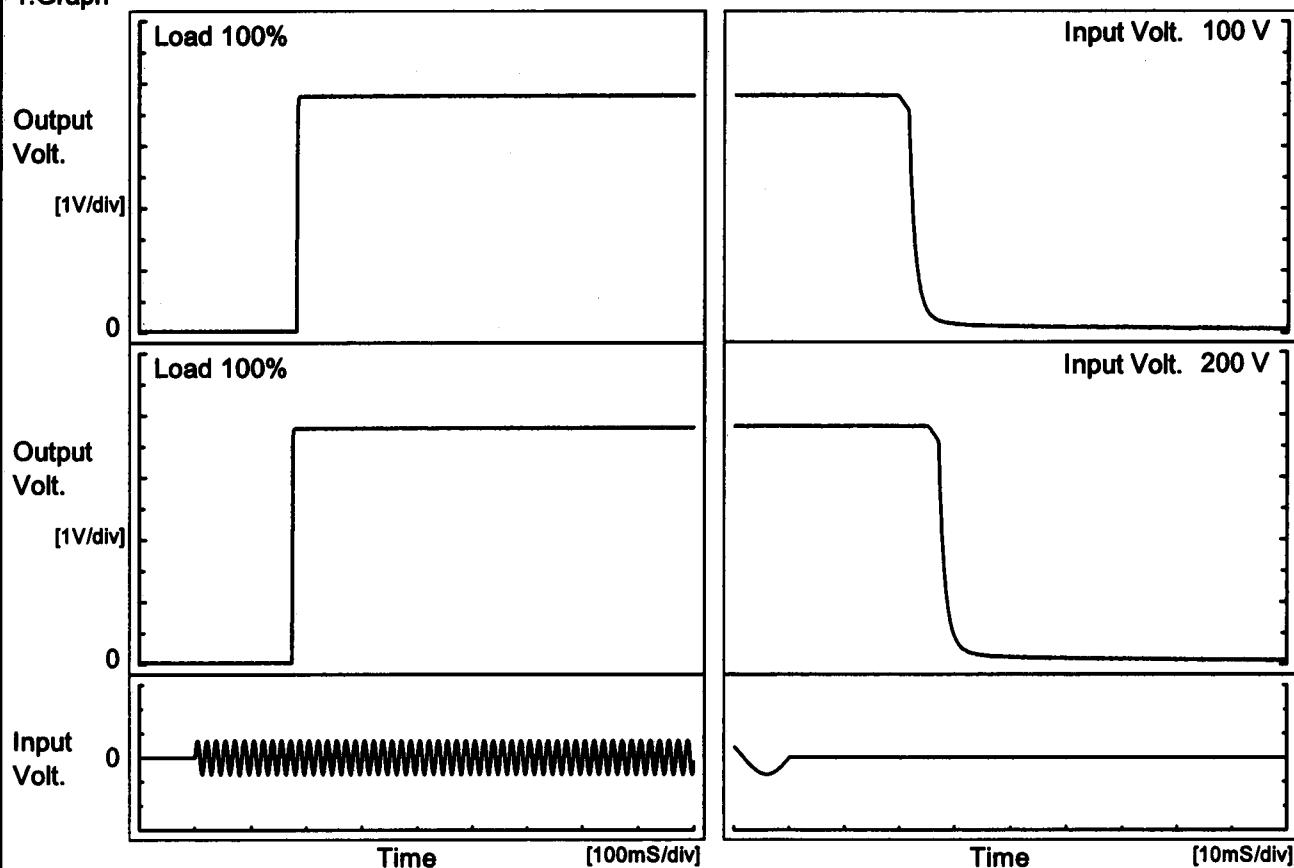
Time since start [H]	Output Voltage [V]
0.0	7.631
0.5	7.622
1.0	7.623
2.0	7.623
3.0	7.623
4.0	7.623
5.0	7.623
6.0	7.623
7.0	7.623
8.0	7.623

COSEL

Model	PBA300F-7R5
Item	Rise and Fall Time
Object	+7.5V40A

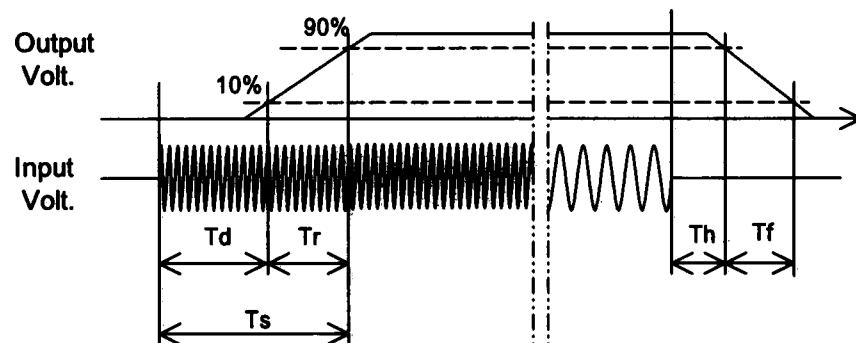
Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

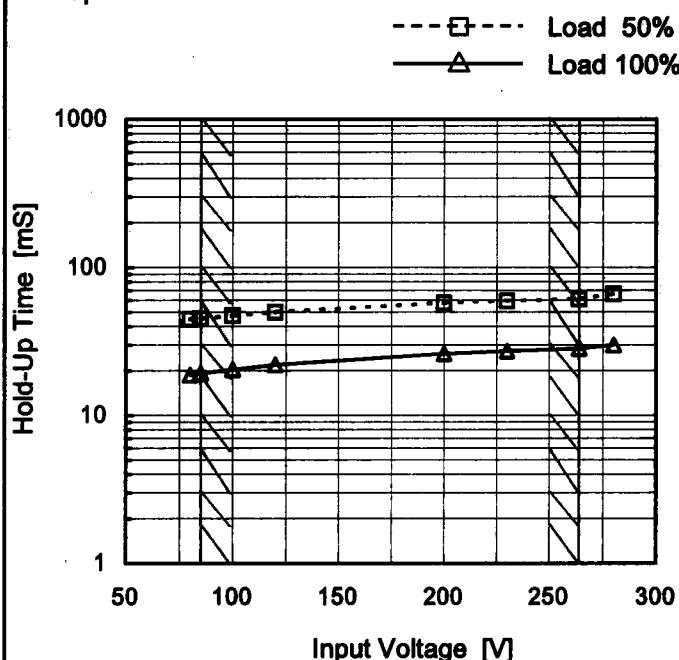
Input Volt.	Time	Td	Tr	Ts	Th	Tf	[mS]
100 V		182.5	2.0	184.5	21.5	3.2	
200 V		174.0	1.5	175.5	27.1	3.2	



COSEL

Model	PBA300F-7R5
Item	Hold-Up Time
Object	+7.5V40A

1.Graph



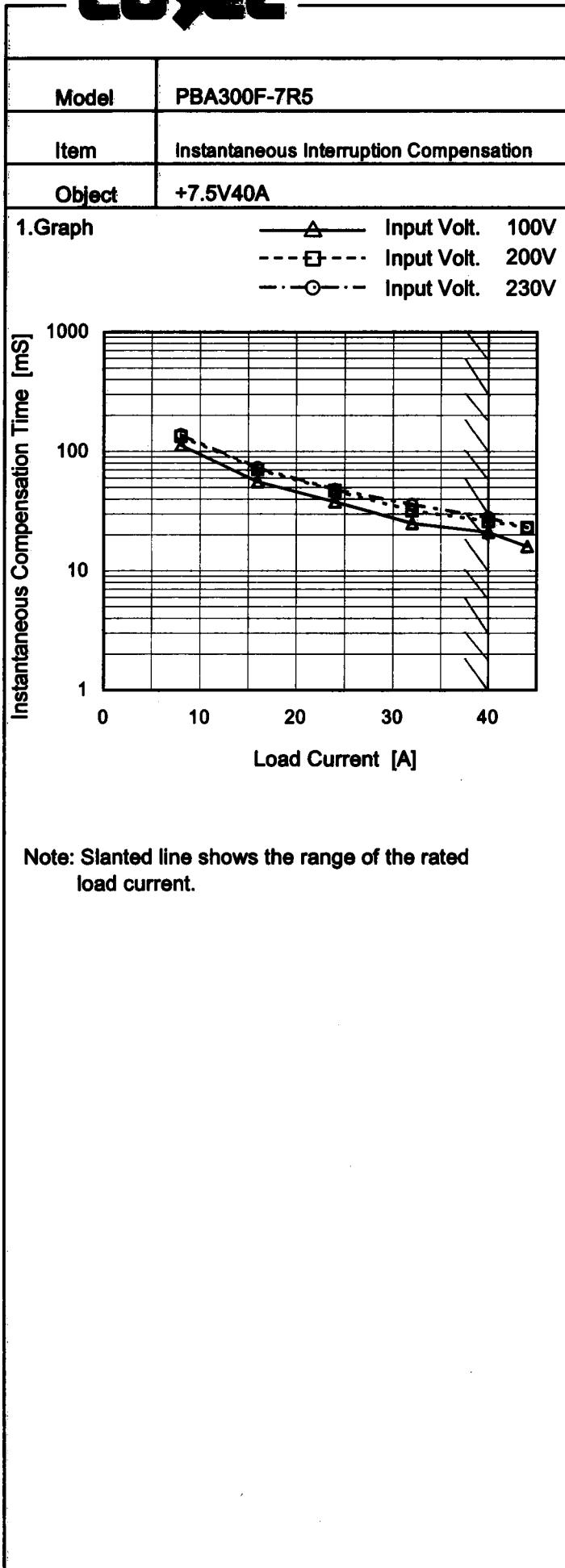
This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.
Note: Slanted line shows the range of the rated input voltage.

Temperature 25°C
Testing Circuitry Figure A

2.Values

Input Voltage [V]	Hold-Up Time [mS]	
	Load 50%	Load 100%
80	45	19
85	45	19
100	47	20
120	50	22
200	58	26
230	60	27
264	61	28
280	66	30
--	-	-

COSEL



Temperature 25°C
Testing Circuitry Figure A

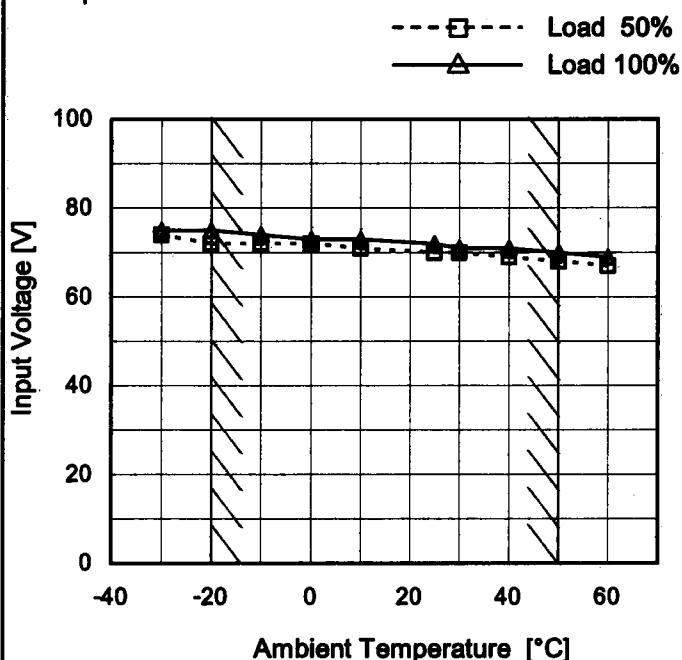
2. Values

Load Current [A]	Time [mS]		
	Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]
0	-	-	-
8	113	134	138
16	56	71	73
24	38	47	48
32	25	32	36
40	21	26	28
44	16	23	23
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

COSEL

Model	PBA300F-7R5
Item	Minimum Input Voltage for Regulated Output Voltage
Object	+7.5V40A

1.Graph



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

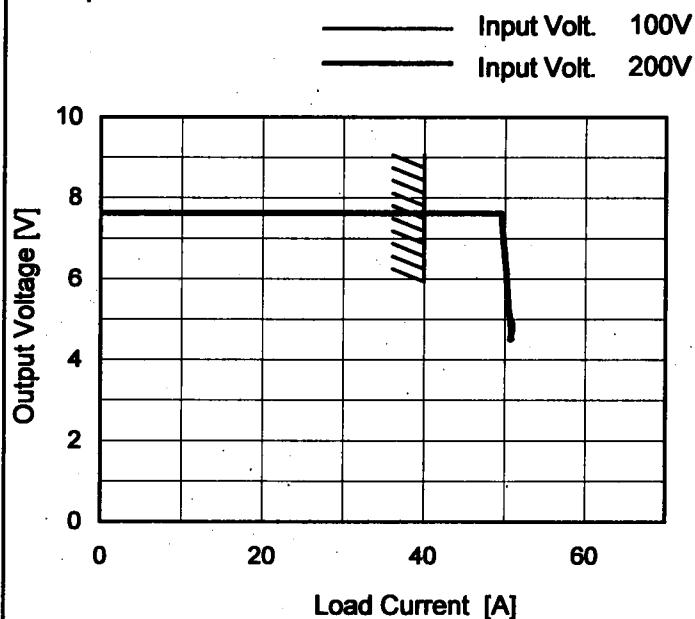
Testing Circuitry Figure A

2.Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-30	74	75
-20	72	75
-10	72	74
0	72	73
10	71	73
25	70	72
30	70	71
40	69	71
50	68	70
60	67	69
--	-	-

COSEL

Model	PBA300F-7R5
Item	Overcurrent Protection
Object	+7.5V40A

1. Graph

Note: Slanted line shows the range of the rated load current.

Intermittent operation occurs when the output voltage is from 4.5V to 0V.

Temperature 25°C
Testing Circuitry Figure A

2. Values

Output Voltage [V]	Load Current [A]	
	Input Volt. 100[V]	Input Volt. 200[V]
7.500	49.47	49.56
7.125	49.58	49.73
6.750	49.74	49.93
6.000	50.14	50.22
5.250	50.44	50.47
4.500	50.98	50.69
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-

COSEL

Model	PBA300F-7R5
Item	Overvoltage Protection
Object	+7.5V40A

1. Graph

Operating Point [V]

Ambient Temperature [°C]

Load 0%

Legend:

- △— Input Volt. 100V
- -□-- Input Volt. 200V

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

Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Operating Point [V]	
	Input Volt. 100[V]	Input Volt. 200[V]
-30	10.19	10.19
-20	10.19	10.19
-10	10.24	10.24
0	10.24	10.24
10	10.24	10.24
25	10.36	10.36
30	10.36	10.36
40	10.36	10.36
50	10.48	10.48
60	10.54	10.54
--	-	-

COSEL

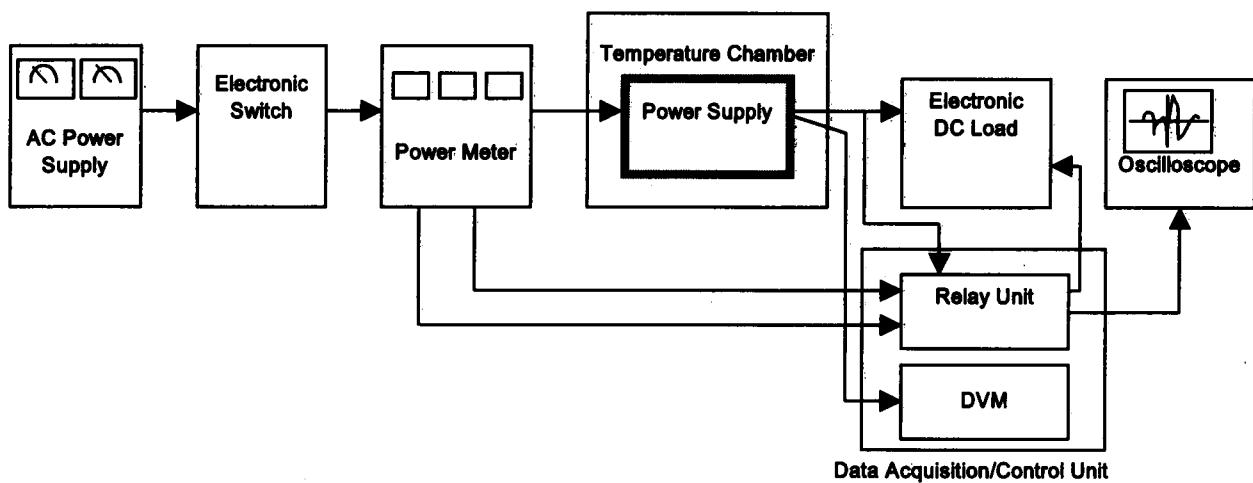


Figure A

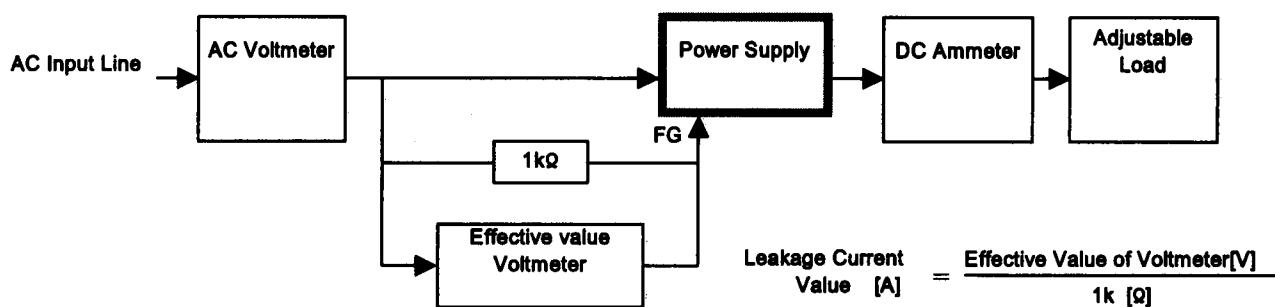


Figure B (DEN-AN)

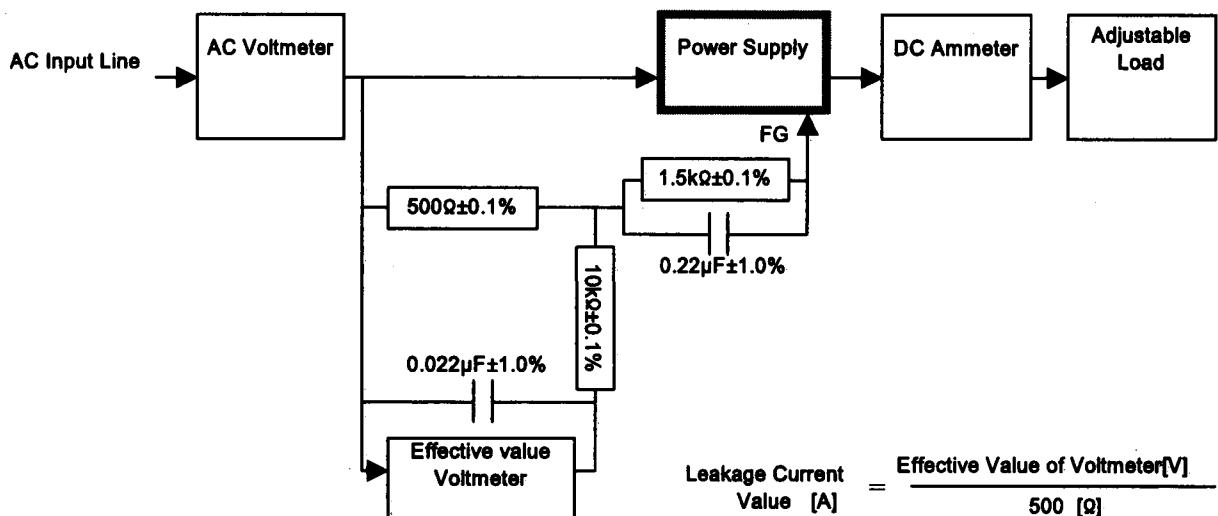


Figure B (IEC60950)