



TEST DATA OF DBS700B24

Regulated DC Power Supply
Jun 30, 2008

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Masanobu Shima Design Engineer

COSEL CO.,LTD.



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Model	DBS700B24	Temperature	25°C																																																																															
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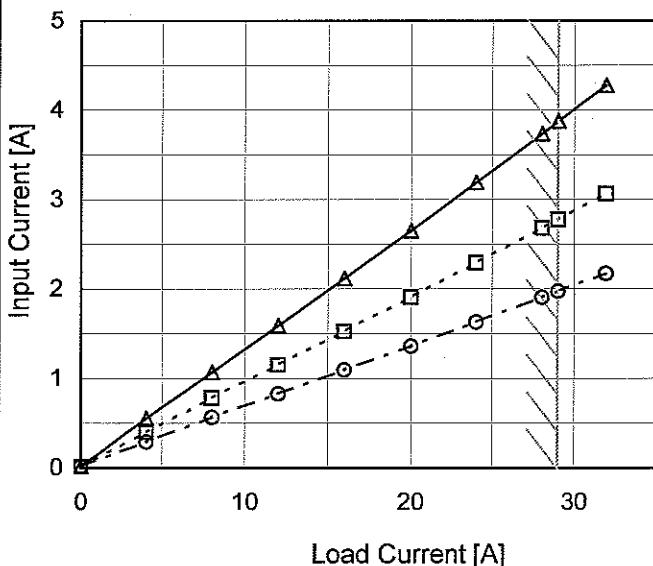
Model DBS700B24

Item Input Current (by Load Current)

Object _____

1. Graph

—△— Input Volt. 200V
 - -□--- Input Volt. 280V
 - -○--- Input Volt. 400V



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

Temperature 25°C
 Testing Circuitry Figure A

2. Values

Load Current [A]	Input Current [A]		
	Input Volt. 200[V]	Input Volt. 280[V]	Input Volt. 400[V]
0.0	0.020	0.017	0.017
4.0	0.555	0.399	0.291
8.0	1.072	0.782	0.568
12.0	1.590	1.153	0.830
16.0	2.118	1.527	1.094
20.0	2.656	1.912	1.362
24.0	3.194	2.294	1.631
28.0	3.740	2.682	1.906
29.0	3.878	2.778	1.974
31.9	4.278	3.064	2.174
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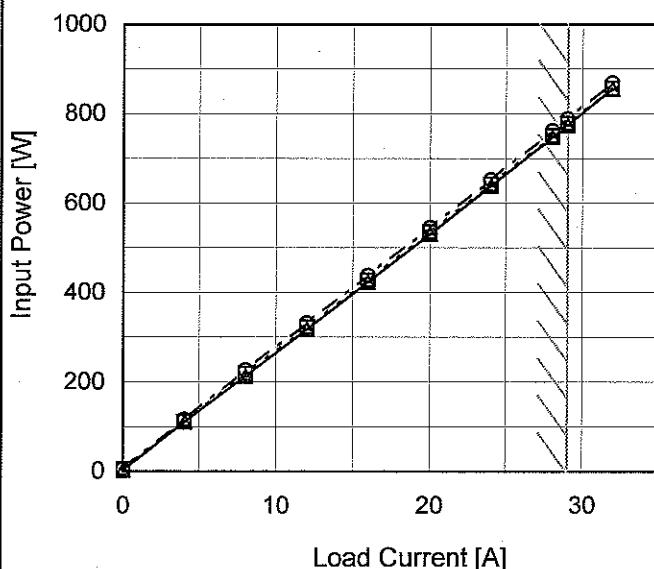
Model DBS700B24

Item Input Power (by Load Current)

Object _____

1. Graph

—▲— Input Volt. 200V
 - - □--- Input Volt. 280V
 - - ○--- Input Volt. 400V



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. 200[V]	Input Volt. 280[V]	Input Volt. 400[V]
0.0	3.9	4.8	6.7
4.0	111.0	111.6	116.1
8.0	214.3	219.0	227.0
12.0	318.0	322.8	332.2
16.0	424.0	427.7	438.0
20.0	531.0	535.0	545.0
24.0	639.0	642.0	652.0
28.0	748.0	751.0	762.0
29.0	775.0	778.0	789.0
31.9	856.0	857.0	869.0
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Model	DBS700B24																																	
Item	Efficiency (by Input Voltage)	Temperature 25°C Testing Circuitry Figure A																																
Object	_____	_____																																
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<p>Efficiency [%]</p> <p>Input Voltage [V]</p> <p>Legend: ---□--- Load 50% —△— Load 100%</p>																																		
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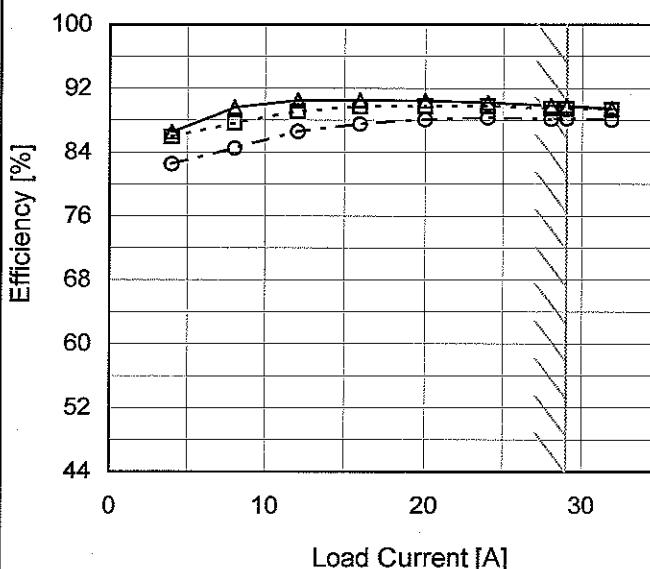
Model DBS700B24

Item Efficiency (by Load Current)

Object _____

1. Graph

—▲— Input Volt. 200V
 - - □--- Input Volt. 280V
 - - ○--- Input Volt. 400V



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

 Temperature 25°C
 Testing Circuitry Figure A

2. Values

Load Current [A]	Efficiency [%]		
	Input Volt. 200[V]	Input Volt. 280[V]	Input Volt. 400[V]
0.0	-	-	-
4.0	86.5	86.0	82.5
8.0	89.6	87.6	84.5
12.0	90.5	89.2	86.6
16.0	90.5	89.7	87.5
20.0	90.5	89.8	88.1
24.0	90.2	89.8	88.3
28.0	89.9	89.5	88.2
29.0	89.8	89.5	88.2
31.9	89.5	89.3	88.1
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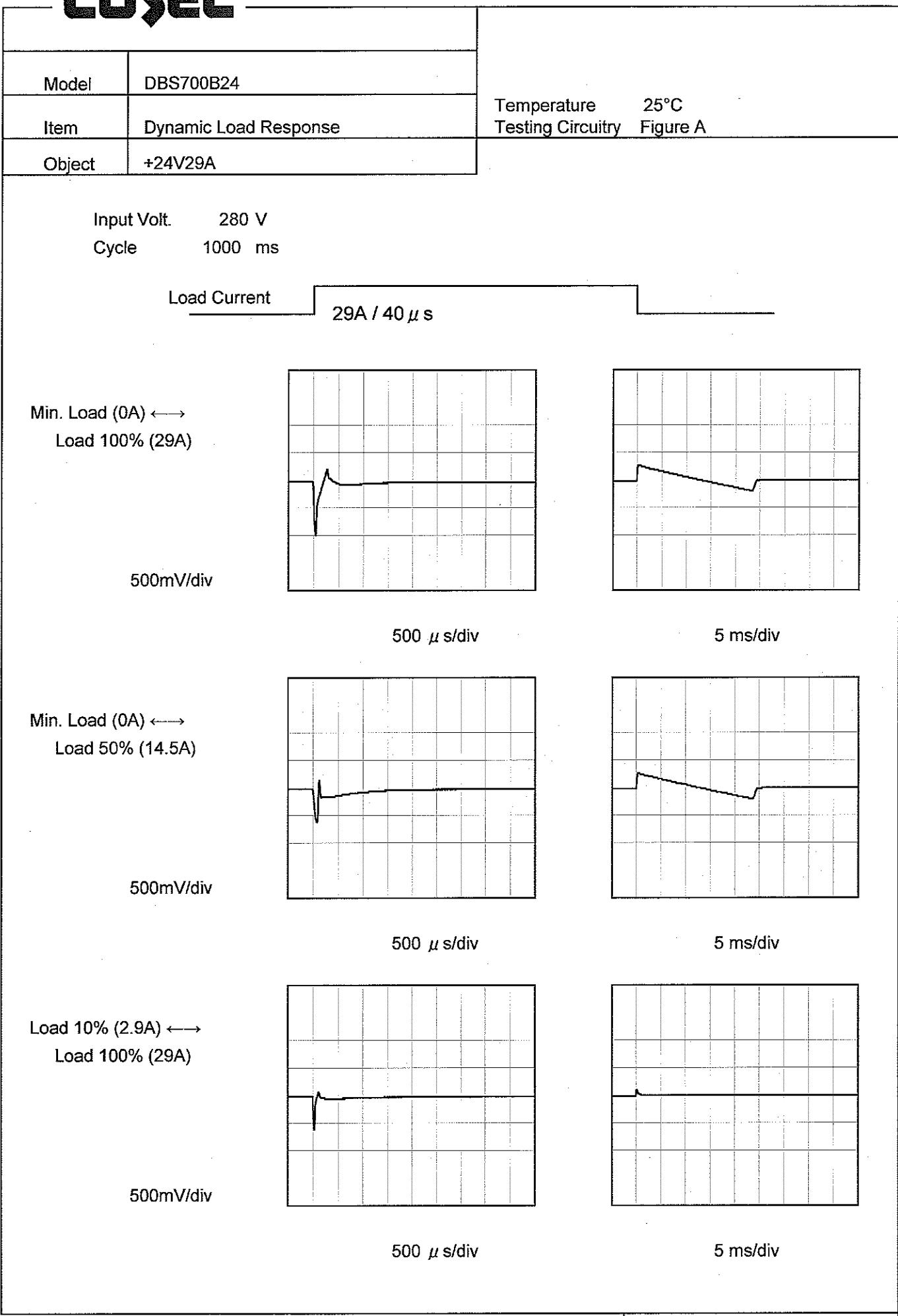
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Model	DBS700B24																																	
Item	Line Regulation	Temperature 25°C Testing Circuitry Figure A																																
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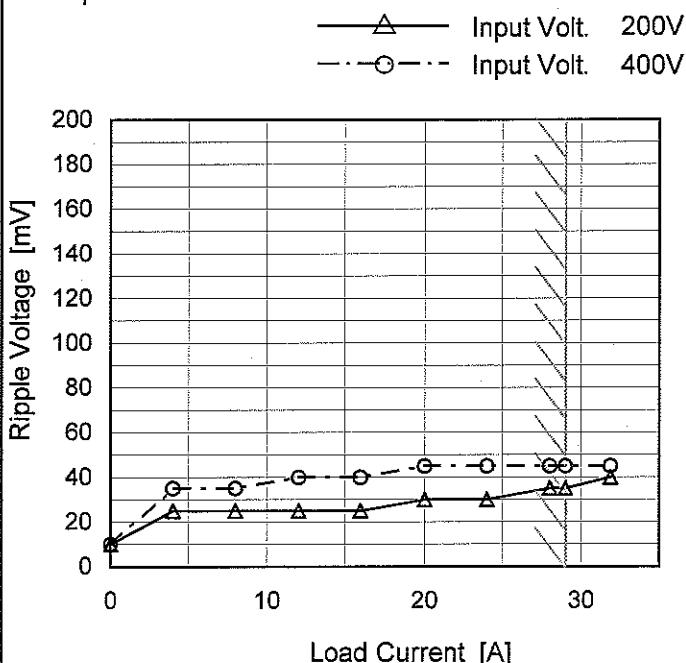


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Model	DBS700B24
Item	Ripple Voltage (by Load Current)
Object	+24V29A

Temperature 25°C
Testing Circuitry Figure B

1. Graph



2. Values

Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 200 [V]	Input Volt. 400 [V]
0.0	10	10
4.0	25	35
8.0	25	35
12.0	25	40
16.0	25	40
20.0	30	45
24.0	30	45
28.0	35	45
29.0	35	45
31.9	40	45
--	-	-

Measured by 100 MHz Oscilloscope.

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

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

Ripple [mVp-p]

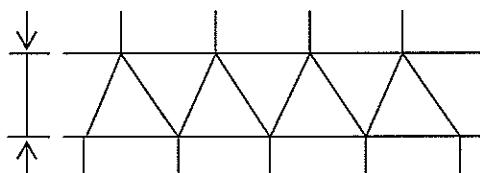


Fig.Complex Ripple Wave Form

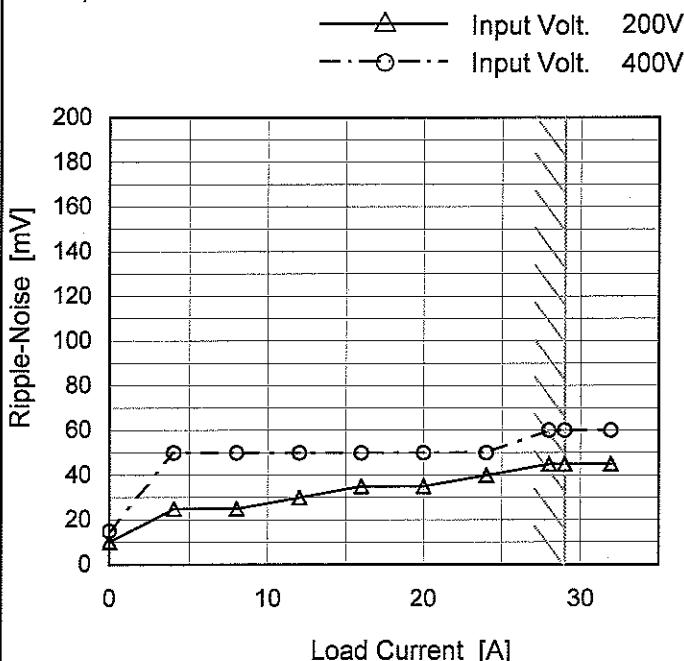
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Model DBS700B24

Item Ripple-Noise

Object +24V29A

1. Graph



Measured by 100 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 B

2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 200 [V]	Input Volt. 400 [V]
0.0	10	15
4.0	25	50
8.0	25	50
12.0	30	50
16.0	35	50
20.0	35	50
24.0	40	50
28.0	45	60
29.0	45	60
31.9	45	60
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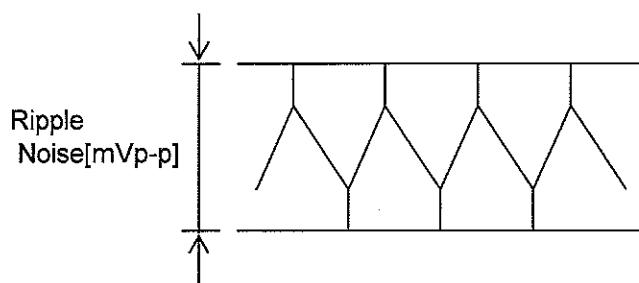
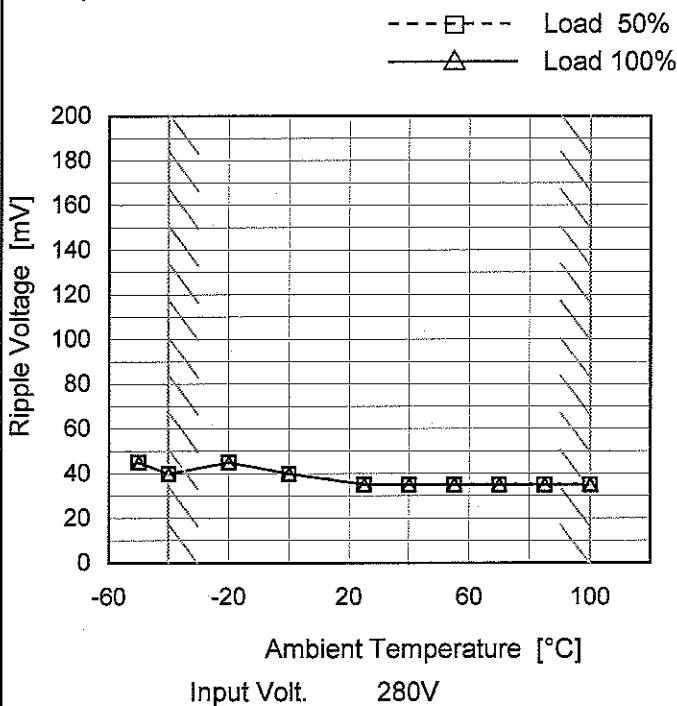


Fig.Complex Ripple Noise Wave Form

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Model	DBS700B24
Item	Ripple Voltage (by Ambient Temp.)
Object	+24V29A

1. Graph



Measured by 100 MHz Oscilloscope.

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

Testing Circuitry Figure B

2. Values

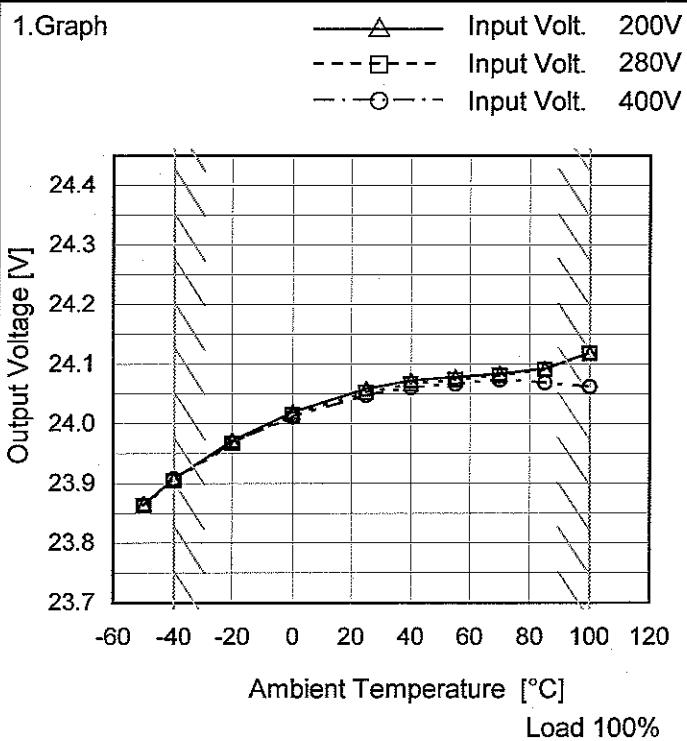
Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-50	45	45
-40	40	40
-20	45	45
0	40	40
25	35	35
40	35	35
55	35	35
70	35	35
85	35	35
100	35	35
--	-	-

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Model DBS700B24

Item Ambient Temperature Drift

Object +24V29A



Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 200[V]	Input Volt. 280[V]	Input Volt. 400[V]
-50	23.866	23.863	23.864
-40	23.908	23.905	23.908
-20	23.972	23.968	23.969
0	24.020	24.015	24.012
25	24.059	24.053	24.048
40	24.073	24.067	24.061
55	24.079	24.074	24.067
70	24.084	24.081	24.074
85	24.093	24.091	24.069
100	24.119	24.118	24.062
--	-	-	-

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



Model	DBS700B24	Testing Circuitry Figure A
Item	Output Voltage Accuracy	
Object	+24V29A	

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 : -40 - 100°C

Input Voltage : 200 - 400V

Load Current : 0 - 29A

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

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

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	100	200	0	24.151	±123	±0.5
Minimum Voltage	-40	280	29	23.905		

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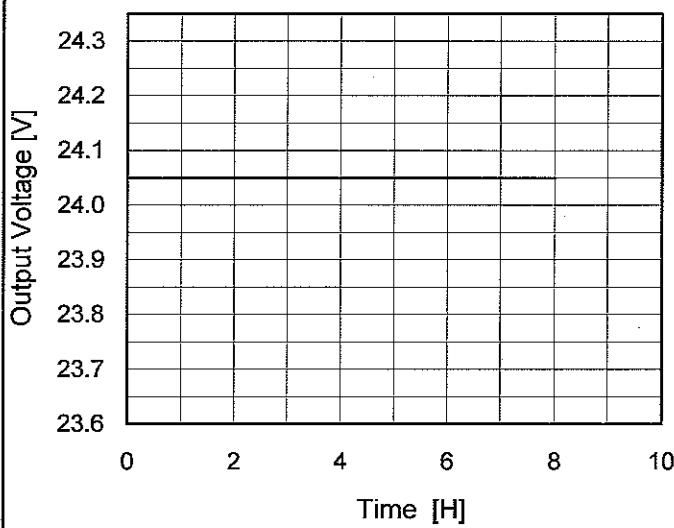
Model DBS700B24

Item Time Lapse Drift

Object +24V29A

Temperature 25°C
Testing Circuitry Figure A

1.Graph



2.Values

Time since start [H]	Output Voltage [V]
0.0	24.050
0.5	24.050
1.0	24.050
2.0	24.050
3.0	24.050
4.0	24.050
5.0	24.050
6.0	24.050
7.0	24.050
8.0	24.050

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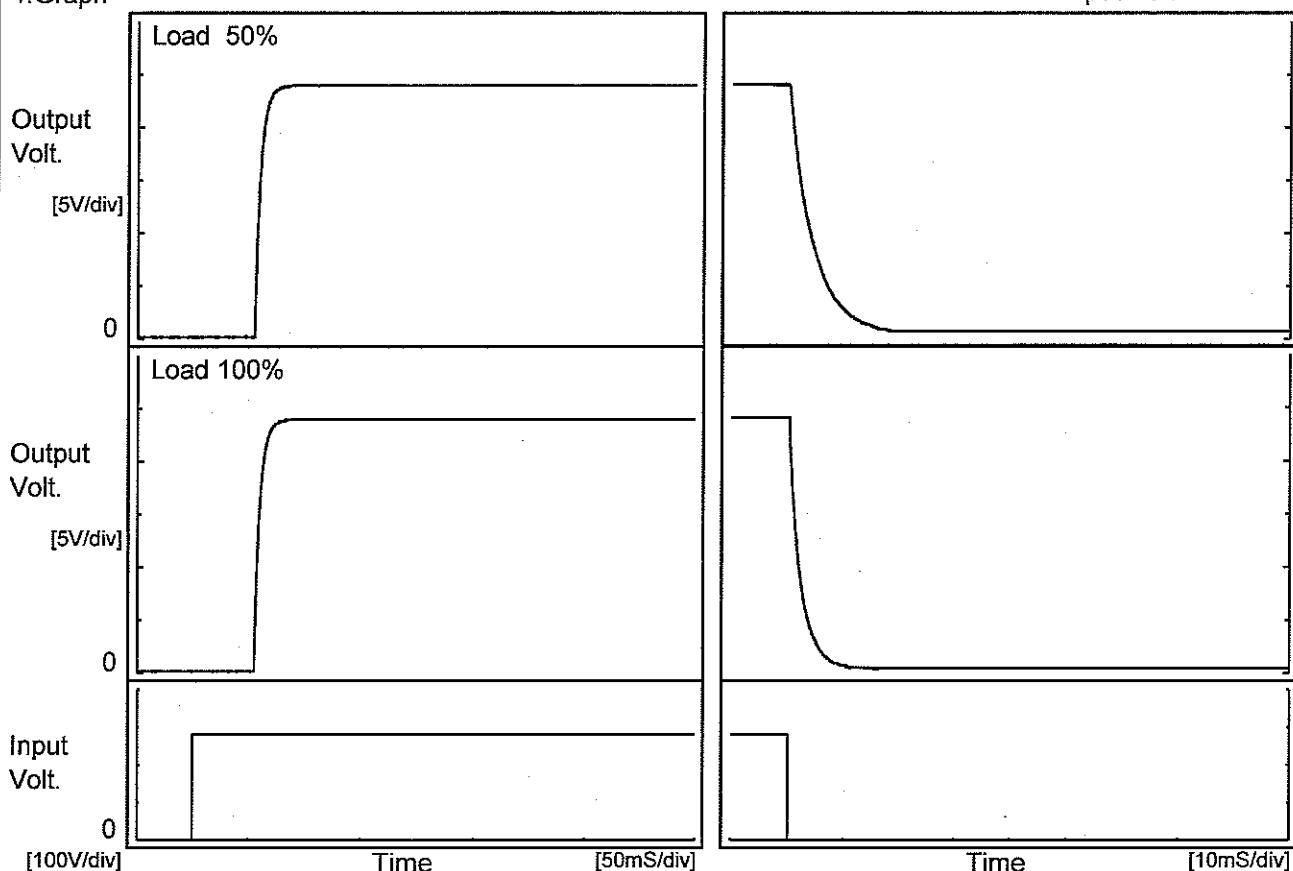
Model DBS700B24

Item Rise and Fall Time

Object +24V29A

Temperature 25°C
Testing Circuitry Figure A

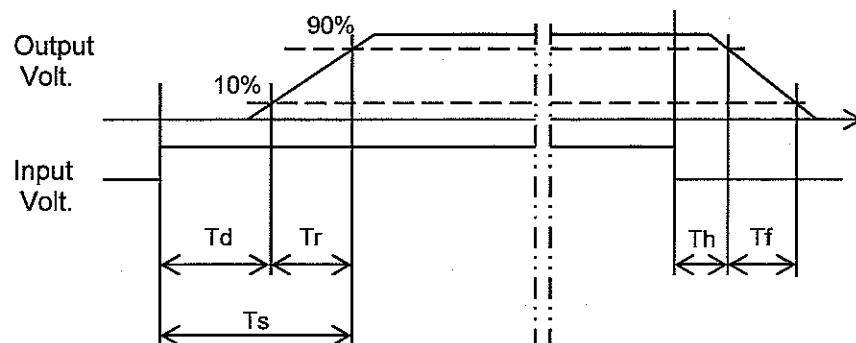
1. Graph



2. Values

[mS]

Load	Time	Td	Tr	Ts	Th	Tf
50 %		55.8	11.0	66.8	0.6	9.8
100 %		55.8	11.0	66.8	0.3	4.2



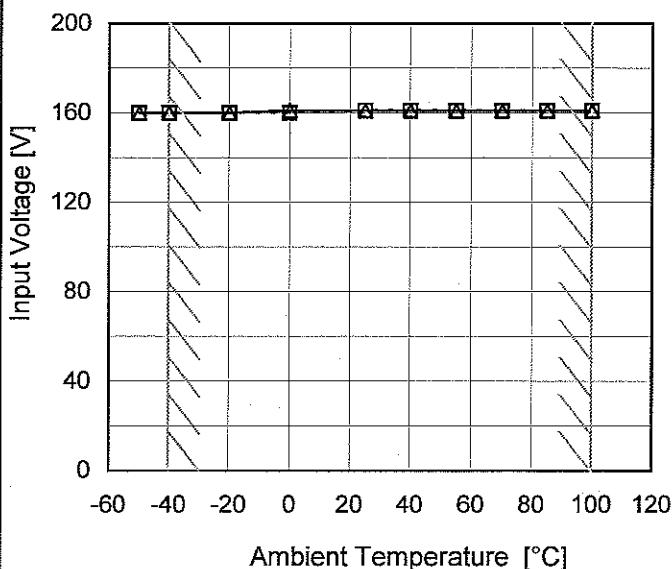
COSEL

Model DBS700B24

Item Minimum Input Voltage
for Regulated Output Voltage

Object +24V29A

1. Graph

 --- □--- Load 50%
 —△— Load 100%


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%
-50	160	160
-40	160	160
-20	160	160
0	160	161
25	161	161
40	161	161
55	161	161
70	161	161
85	161	161
100	161	161
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COSEL

Model	DBS700B24	Temperature	25°C																																																																							
Item	Overcurrent Protection	Testing Circuitry	Figure A																																																																							
Object	+24V29A																																																																									
1.Graph		2.Values																																																																								
<p>The graph plots Output Voltage [V] on the Y-axis (0 to 30) against Load Current [A] on the X-axis (0 to 50). Three curves are shown for different input voltages: 200V (top), 280V (middle), and 400V (bottom). All curves show a horizontal plateau at higher load currents, followed by a sharp drop-off. A slanted line is drawn across the graph, starting from approximately (30, 24) and ending at (40, 20), indicating the range of rated load current where the output voltage is between 19.2V and 0V.</p>		<table border="1"> <thead> <tr> <th rowspan="2">Output Voltage [V]</th> <th colspan="3">Load Current [A]</th> </tr> <tr> <th>Input Volt. 200[V]</th> <th>Input Volt. 280[V]</th> <th>Input Volt. 400[V]</th> </tr> </thead> <tbody> <tr><td>24.0</td><td>29.46</td><td>29.42</td><td>29.41</td></tr> <tr><td>22.8</td><td>34.95</td><td>35.14</td><td>36.57</td></tr> <tr><td>21.6</td><td>35.04</td><td>35.33</td><td>36.94</td></tr> <tr><td>19.2</td><td>35.31</td><td>35.77</td><td>37.64</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table>		Output Voltage [V]	Load Current [A]			Input Volt. 200[V]	Input Volt. 280[V]	Input Volt. 400[V]	24.0	29.46	29.42	29.41	22.8	34.95	35.14	36.57	21.6	35.04	35.33	36.94	19.2	35.31	35.77	37.64	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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Note: Slanted line shows the range of the rated load current.

Intermittent operation occurs when the output voltage is from 19.2V to 0V.



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COSEL

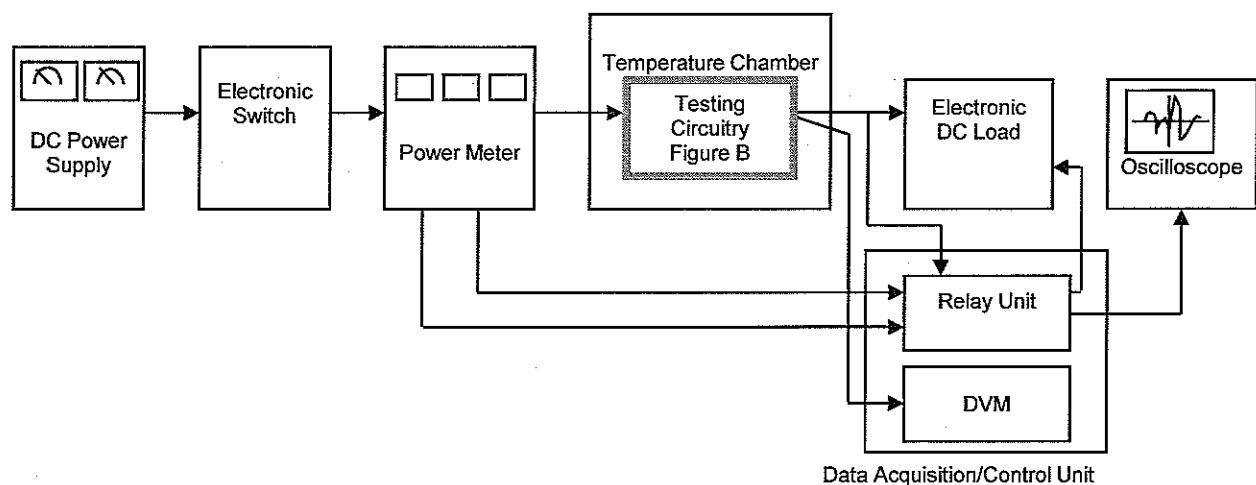


Figure A

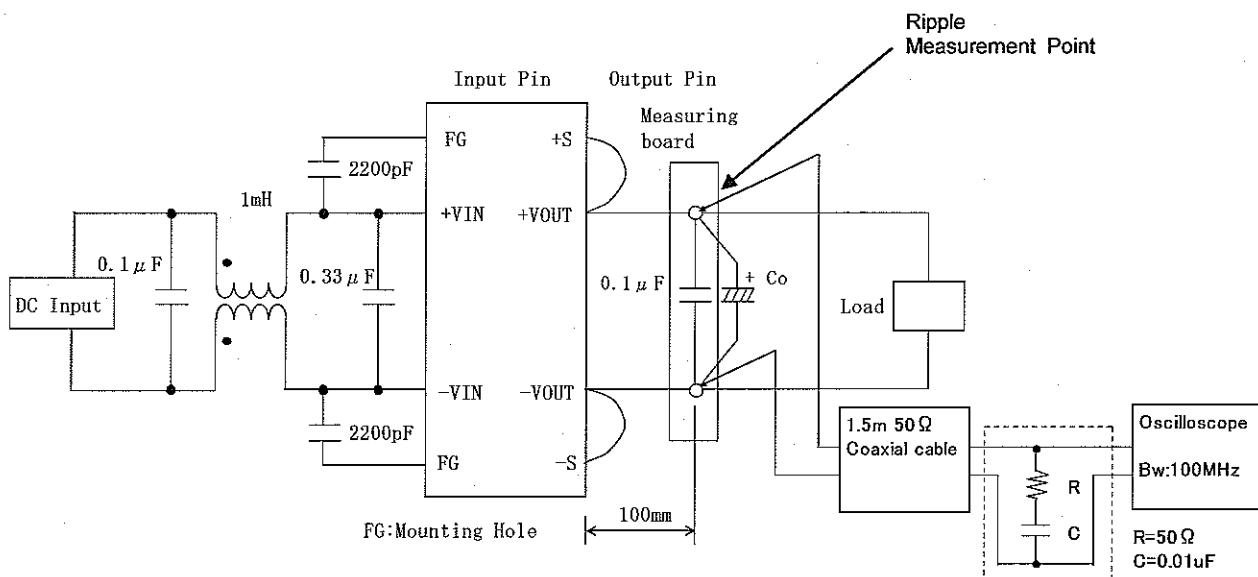


Figure B

Co[μF]	
Base plate temperature: Tc=-20°C~+100°C	Base plate temperature: Tc=-40°C~+100°C
2200	2200×3