

# TEST DATA OF DHS250B48

Regulated DC Power Supply  
November 17, 2009

Approved by : Tatsuya Mano  
Tatsuya Mano Design Manager

Prepared by : Noriaki Nakase  
Noriaki Nakase Design Engineer

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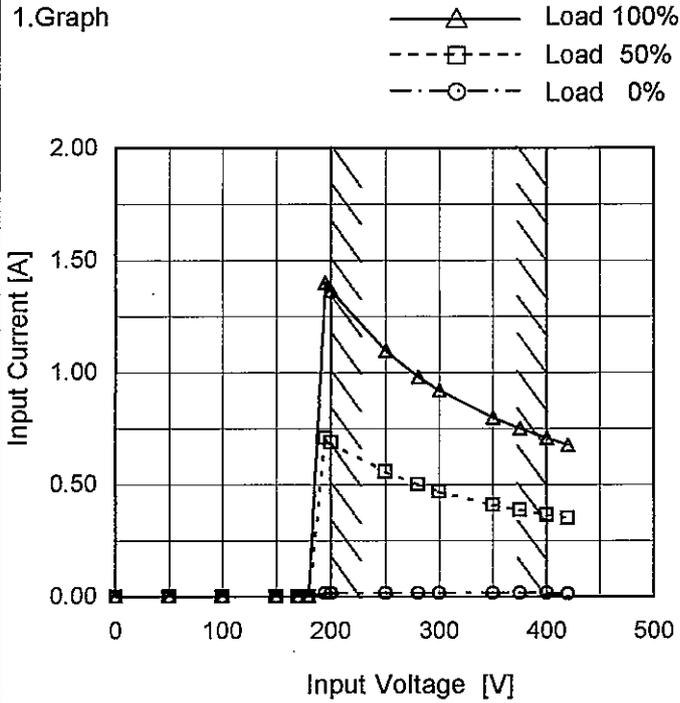
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Model	DHS250B48
Item	Input Current (by Input Voltage)
Object	_____

Temperature 25°C  
Testing Circuitry Figure A



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

2. Values

Input Voltage [V]	Input Current [A]		
	Load 0%	Load 50%	Load 100%
0	0.000	0.000	0.000
50	0.000	0.000	0.000
100	0.000	0.000	0.000
150	0.000	0.000	0.000
170	0.000	0.000	0.000
180	0.000	0.000	0.000
195	0.018	0.706	1.400
200	0.018	0.688	1.363
250	0.017	0.557	1.096
280	0.017	0.500	0.980
300	0.017	0.470	0.921
350	0.017	0.409	0.798
375	0.017	0.385	0.749
400	0.017	0.364	0.706
420	0.013	0.349	0.675
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Model		DHS250B48		Temperature		25°C																																																				
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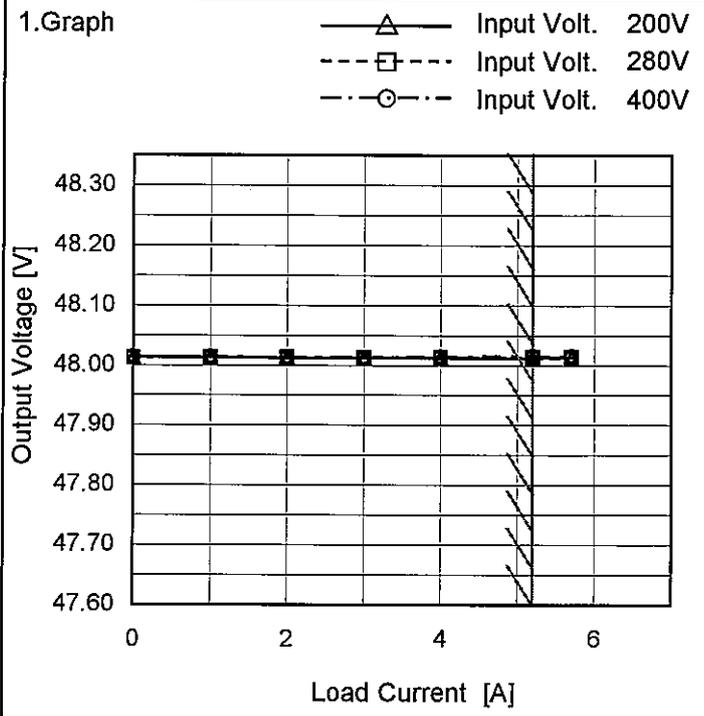
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<b>COSEL</b>																																			
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Object	+48V5.2A																																		
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Model	DHS250B48	Temperature	25°C
Item	Load Regulation	Testing Circuitry	Figure A
Object	+48V5.2A		



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

2. Values

Load Current [A]	Output Voltage [V]		
	Input Volt. 200[V]	Input Volt. 280[V]	Input Volt. 400[V]
0.0	48.013	48.013	48.014
1.0	48.013	48.013	48.014
2.0	48.012	48.013	48.014
3.0	48.012	48.013	48.014
4.0	48.012	48.013	48.014
5.2	48.012	48.013	48.015
5.7	48.013	48.014	48.015
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

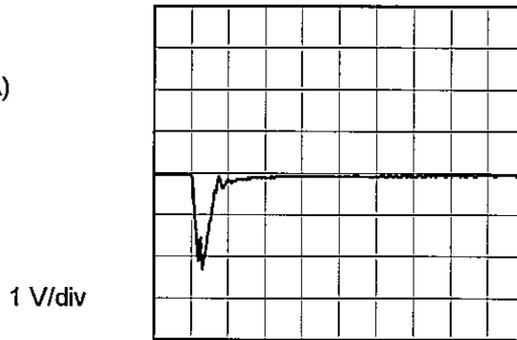


Model		DHS250B48	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		+48V5.2A	

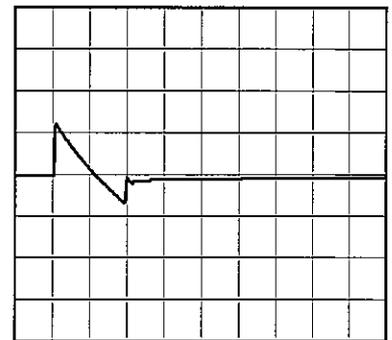
Input Volt. 280 V  
Cycle 1000 mS



Min. Load (0A) ←→  
Load 100% (5.2A)

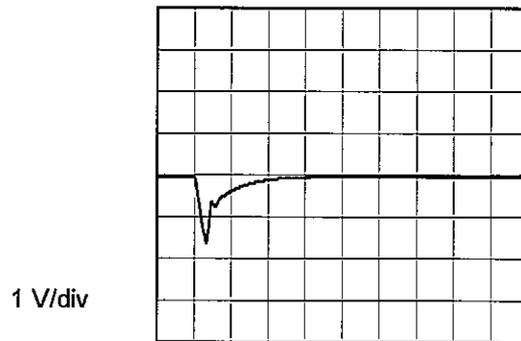


1ms/div

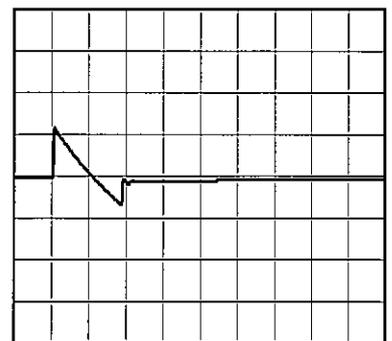


50ms/div

Min. Load (0A) ←→  
Load 50% (2.6A)

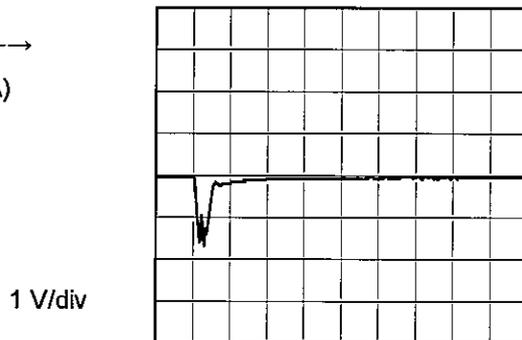


1ms/div

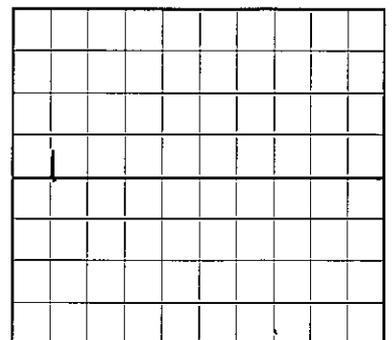


50ms/div

Load 10% (0.52A) ←→  
Load 100% (5.2A)



1ms/div

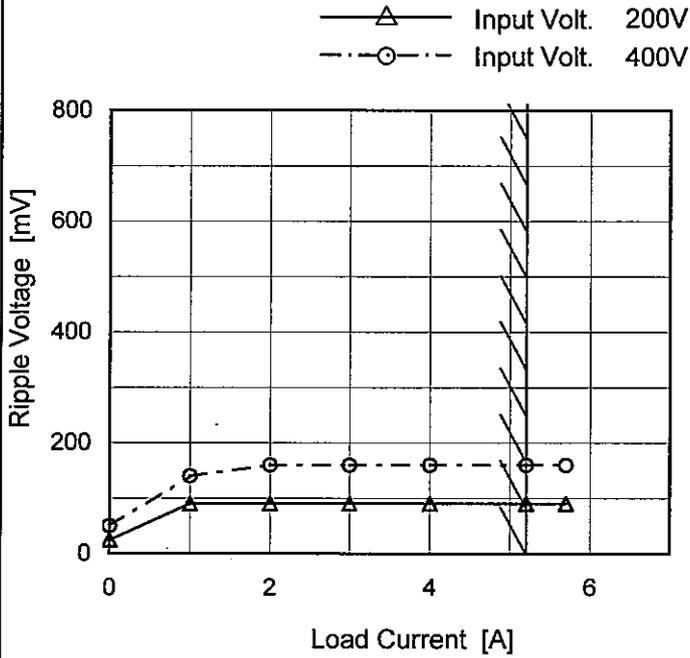


50ms/div



Model	DHS250B48	Temperature	25°C
Item	Ripple Voltage (by Load Current)	Testing Circuitry	Figure B
Object	+48V5.2A		

1. Graph



2. Values

Load Current [A]	Ripple Voltage [mV]	
	Input Volt. 200 [V]	Input Volt. 400 [V]
0.0	25	50
1.0	90	140
2.0	90	160
3.0	90	160
4.0	90	160
5.2	90	160
5.7	90	160
--	-	-
--	-	-
--	-	-
--	-	-

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]

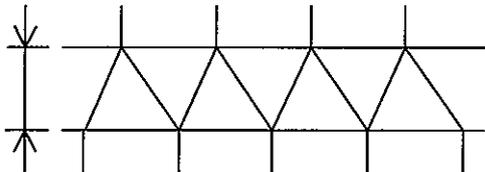


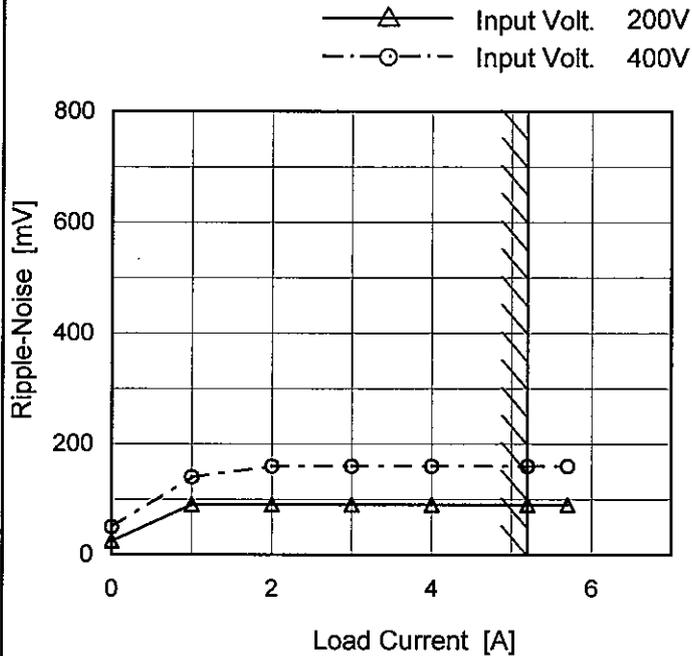
Fig. Complex Ripple Wave Form



Model	DHS250B48
Item	Ripple-Noise
Object	+48V5.2A

Temperature 25°C  
Testing Circuitry Figure B

1. Graph



2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 200 [V]	Input Volt. 400 [V]
0.0	25	50
1.0	90	140
2.0	90	160
3.0	90	160
4.0	90	160
5.2	90	160
5.7	90	160
--	-	-
--	-	-
--	-	-
--	-	-

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.

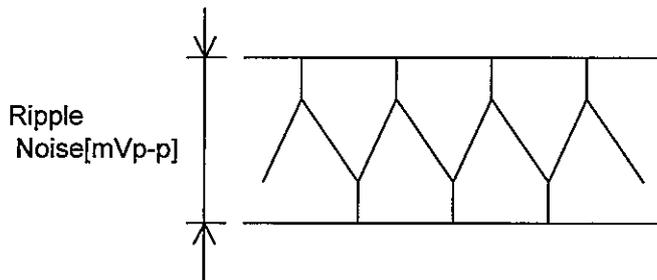


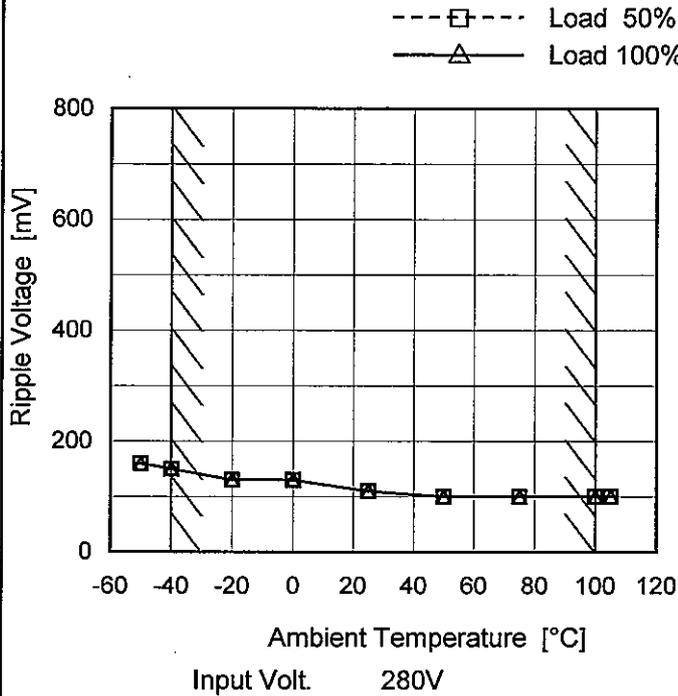
Fig. Complex Ripple Noise Wave Form



Model	DHS250B48
Item	Ripple Voltage (by Ambient Temp.)
Object	+48V5.2A

Testing Circuitry Figure B

1. Graph



2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-50	160	160
-40	150	150
-20	130	130
0	130	130
25	110	110
50	100	100
75	100	100
100	100	100
105	100	100
--	-	-
--	-	-

Measured by 100 MHz Oscilloscope.

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



Model		DHS250B48		Testing Circuitry Figure A																																																				
Item		Ambient Temperature Drift																																																						
Object		+48V5.2A																																																						
1. Graph		<p>                 —△— Input Volt. 200V                  - - - □ - - - Input Volt. 280V                  - - - ○ - - - Input Volt. 400V             </p>		2. Values																																																				
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<b>COSEL</b>		
Model	DHS250B48	
Item	Output Voltage Accuracy	Testing Circuitry Figure A
Object	+48V5.2A	

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 - 5.2A

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

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

2. Values

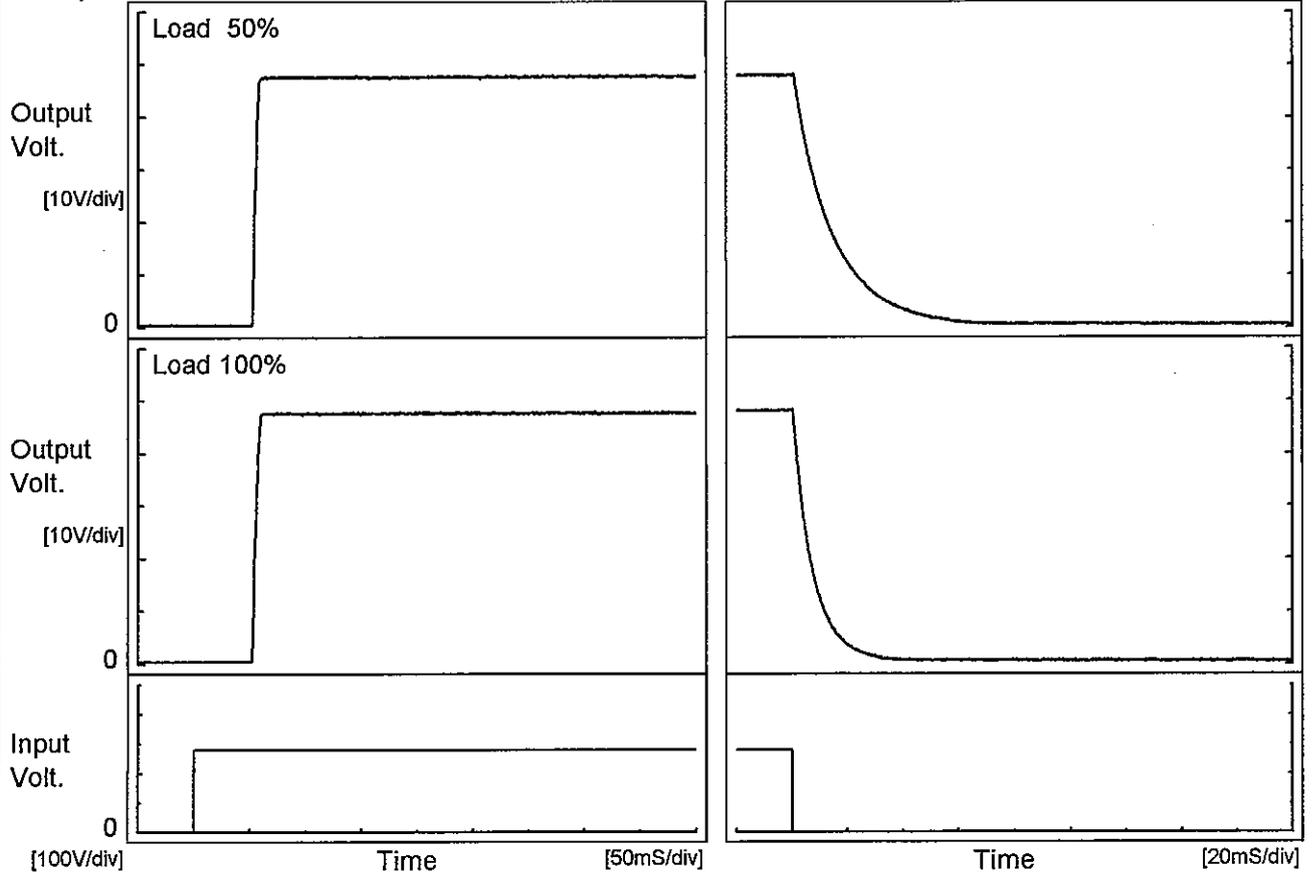
Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	100	400	5.2	48.066	±131	±0.3
Minimum Voltage	-40	200	5.2	47.804		



<b>COSEL</b>																									
Model	DHS250B48	Temperature	25°C																						
Item	Time Lapse Drift	Testing Circuitry	Figure A																						
Object	+48V5.2A																								
1.Graph		2.Values																							
<p style="text-align: center;">Time [H]</p> <p>Input Volt. 280V Load 100%</p>		<table border="1"> <thead> <tr> <th>Time since start [H]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>48.004</td></tr> <tr><td>0.5</td><td>48.017</td></tr> <tr><td>1.0</td><td>48.017</td></tr> <tr><td>2.0</td><td>48.017</td></tr> <tr><td>3.0</td><td>48.017</td></tr> <tr><td>4.0</td><td>48.017</td></tr> <tr><td>5.0</td><td>48.017</td></tr> <tr><td>6.0</td><td>48.017</td></tr> <tr><td>7.0</td><td>48.017</td></tr> <tr><td>8.0</td><td>48.017</td></tr> </tbody> </table>		Time since start [H]	Output Voltage [V]	0.0	48.004	0.5	48.017	1.0	48.017	2.0	48.017	3.0	48.017	4.0	48.017	5.0	48.017	6.0	48.017	7.0	48.017	8.0	48.017
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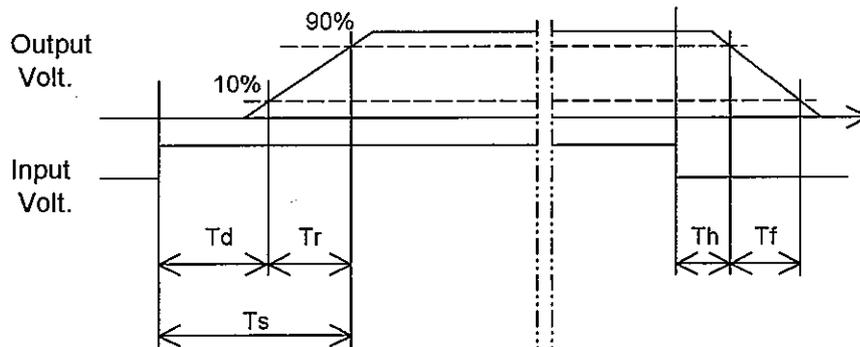
Model	DHS250B48	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+48V5.2A		

1. Graph



2. Values

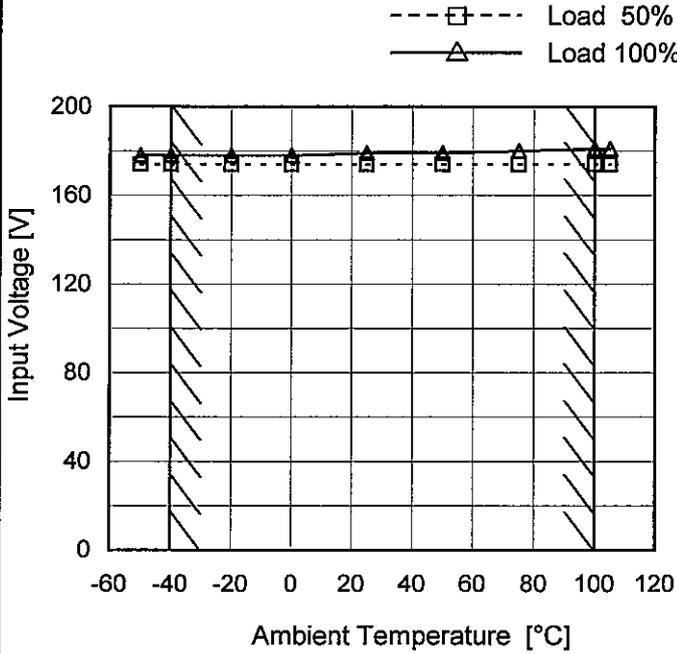
Load	Time	Td	Tr	Ts	Th	Tf
50 %		53.3	4.5	57.8	1.7	31.6
100 %		53.3	6.0	59.3	1.1	15.8





Model	DHS250B48	Testing Circuitry Figure A
Item	Minimum Input Voltage for Regulated Output Voltage	
Object	+48V5.2A	

1. Graph

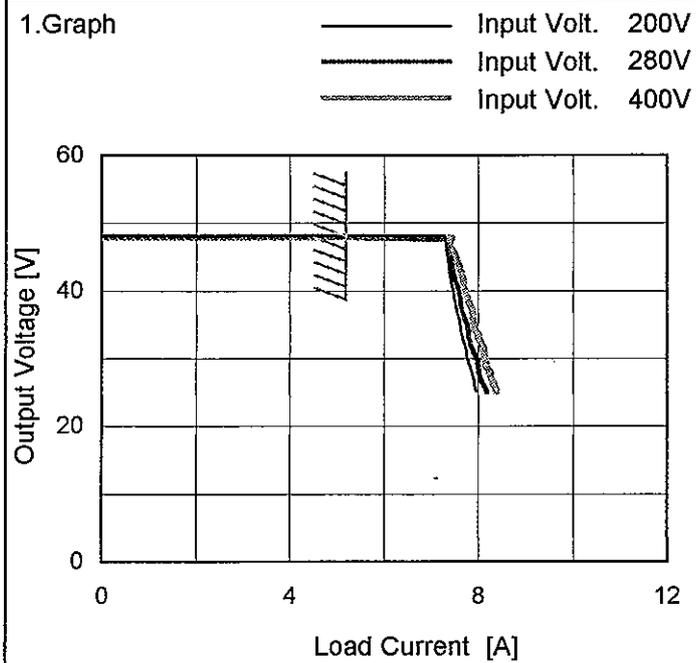


Note: Slanted line shows the range of the rated ambient temperature.

2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-50	174	178
-40	174	178
-20	174	178
0	174	178
25	174	179
50	174	179
75	174	180
100	174	181
105	174	181
--	-	-
--	-	-

Model	DHS250B48	Temperature	25°C
Item	Overcurrent Protection	Testing Circuitry	Figure A
Object	+48V5.2A		



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

Intermittent operation occurs when the output voltage is from 25V to 0V.

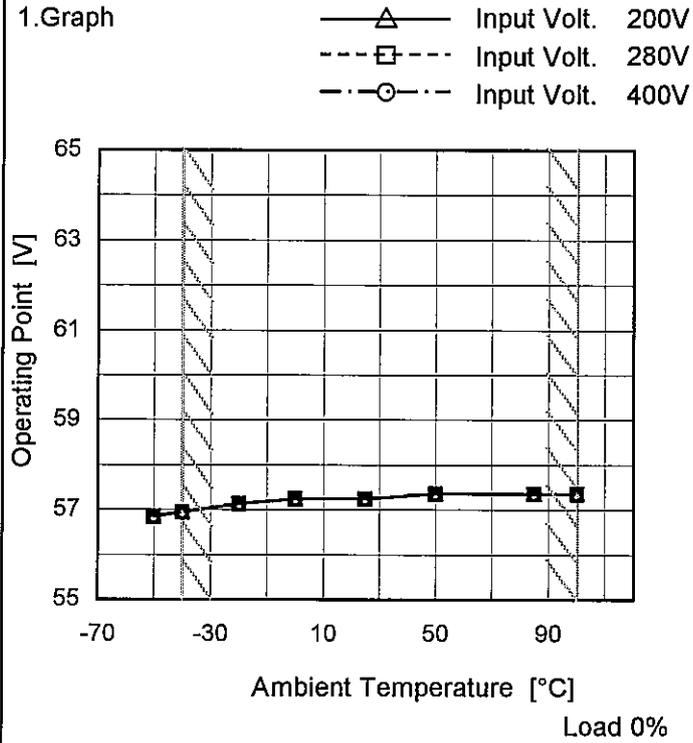
2.Values

Output Voltage [V]	Load Current [A]		
	Input Volt. 200[V]	Input Volt. 280[V]	Input Volt. 400[V]
48.0	5.22	5.22	5.23
45.6	7.33	7.38	7.48
43.2	7.39	7.46	7.62
38.4	7.50	7.62	7.79
33.6	7.63	7.81	7.99
28.8	7.81	8.01	8.15
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-



Model	DHS250B48
Item	Overvoltage Protection
Object	+48V5.2A

Testing Circuitry Figure A



2.Values

Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 200[V]	Input Volt. 280[V]	Input Volt. 400[V]
-50	56.84	56.84	56.84
-40	56.95	56.95	56.95
-20	57.13	57.13	57.13
0	57.25	57.25	57.25
25	57.25	57.25	57.25
50	57.36	57.36	57.36
85	57.36	57.36	57.36
100	57.36	57.36	57.36
--	-	-	-
--	-	-	-
--	-	-	-

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

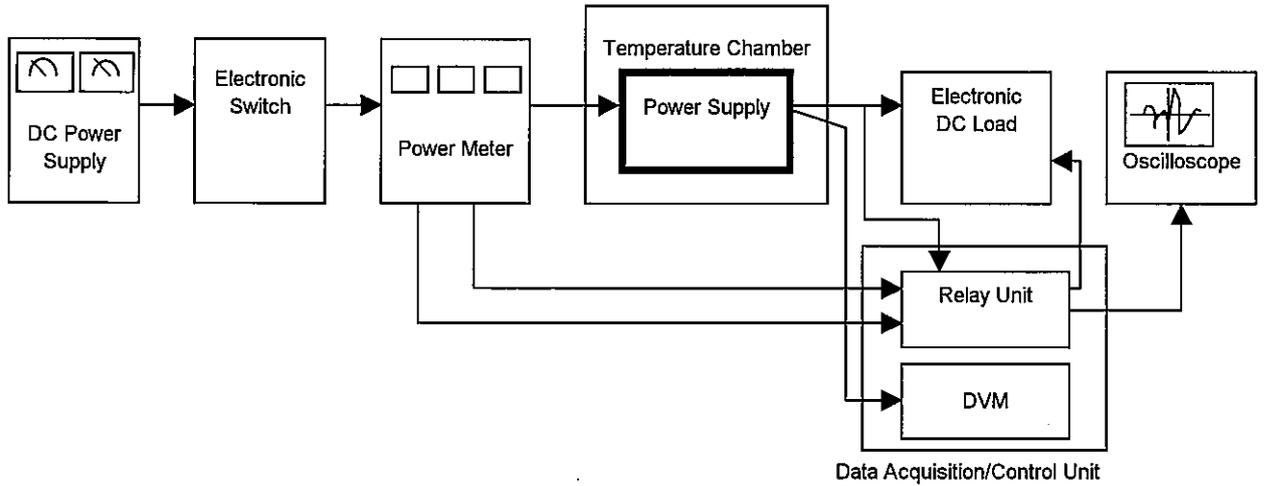
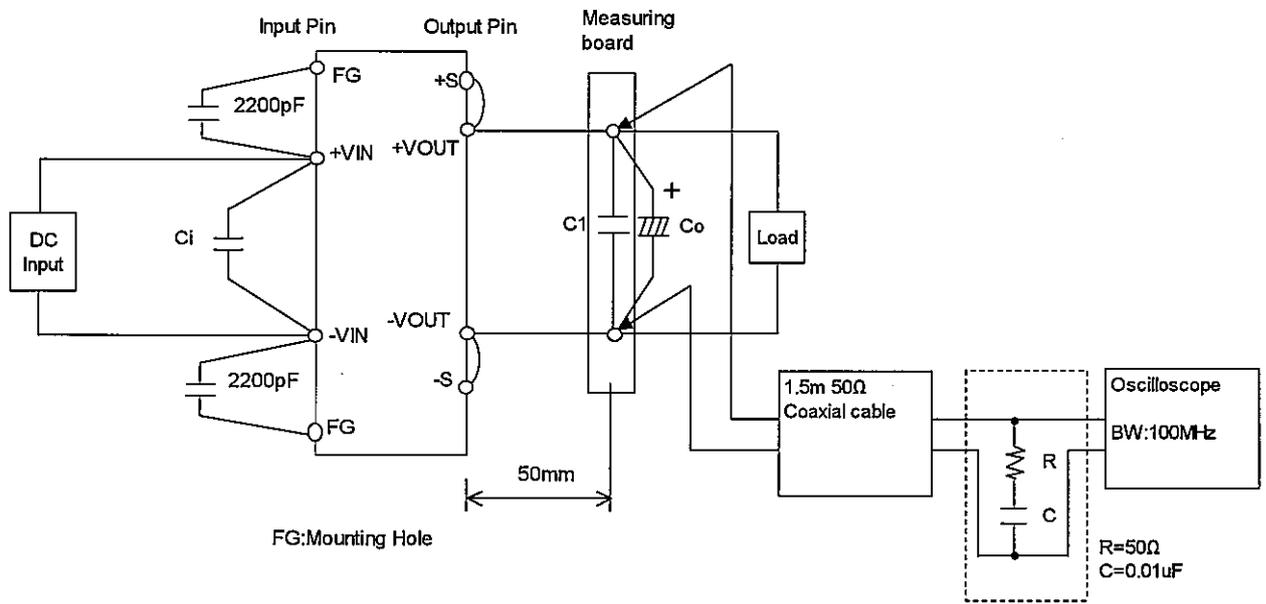


Figure A



C1	
DHS250B24	4.7μF
DHS250B28	4.7μF
DHS250B48	2.2μF
Others	10μF

Co	
DHS250B03	2200μF
DHS250B05	2200μF
DHS250B07	2200μF
DHS250B12	1000μF
DHS250B15	1000μF
DHS250B24	470μF
DHS250B28	470μF
DHS250B48	330μF

Figure B