



TEST DATA OF DAS1004805

(48V INPUT)

Regulated DC Power Supply

Date : Feb. 7. 1998

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Design Manager

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Design Engineer

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Model		DAS1004805	Temperature		25°C
Item		Line Regulation 静的入力変動	Testing Circuitry		Figure A
Object		+5.0V20.00A	2. Values		
1. Graph		<div> <div>□ Load 50%</div> <div>—△— Load 100%</div> </div> <p>Note: Slanted line shows the range of the rated input voltage.</p> <p>(注)斜線は定格入力電圧範囲を示す。</p>			

Input Voltage [V]	Load 50%	Load 100%
	Output Volt. [V]	Output Volt. [V]
33	5.166	5.167
36	5.166	5.167
42	5.166	5.167
48	5.166	5.167
54	5.166	5.167
60	5.166	5.167
66	5.166	5.167
72	5.166	5.167
75	5.166	5.167

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Model		DAS1004805	
Item		Efficiency 効率	
Object			
1. Graph		2. Values	

□ Load 50%

△ Load 100%

Efficiency [%]

Input Voltage [V]

Input Voltage [V]	Load 50% Efficiency [%]	Load 100% Efficiency [%]
33	84.0	79.9
36	84.2	80.0
42	84.2	80.2
48	83.9	80.3
54	83.9	80.3
60	83.8	80.2
66	83.5	80.2
72	83.3	80.3
75	83.2	80.2

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

(注)斜線は定格入力電圧範囲を示す。

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Model	DAS1004805	Temperature	25°C																																															
Item	Load Regulation 静的負荷変動	Testing Circuitry	Figure A																																															
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1. Graph <div> <div> <div>△</div> <div>□</div> <div>○</div> </div> <div> <div>Input Volt. 36V</div> <div>Input Volt. 48V</div> <div>Input Volt. 72V</div> </div> </div>		2. Values <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th><th>Input Volt. 36[V]</th><th>Input Volt. 48[V]</th><th>Input Volt. 72[V]</th></tr> <tr> <th>Output Volt. [V]</th><th>Output Volt. [V]</th><th>Output Volt. [V]</th></tr> </thead> <tbody> <tr><td>0.0</td><td>5.166</td><td>5.166</td><td>5.166</td></tr> <tr><td>4.0</td><td>5.167</td><td>5.166</td><td>5.166</td></tr> <tr><td>8.0</td><td>5.167</td><td>5.167</td><td>5.167</td></tr> <tr><td>12.0</td><td>5.167</td><td>5.167</td><td>5.167</td></tr> <tr><td>16.0</td><td>5.167</td><td>5.167</td><td>5.167</td></tr> <tr><td>20.0</td><td>5.168</td><td>5.168</td><td>5.167</td></tr> <tr><td>22.0</td><td>5.168</td><td>5.168</td><td>5.167</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> </tbody> </table>		Load Current [A]	Input Volt. 36[V]	Input Volt. 48[V]	Input Volt. 72[V]	Output Volt. [V]	Output Volt. [V]	Output Volt. [V]	0.0	5.166	5.166	5.166	4.0	5.167	5.166	5.166	8.0	5.167	5.167	5.167	12.0	5.167	5.167	5.167	16.0	5.167	5.167	5.167	20.0	5.168	5.168	5.167	22.0	5.168	5.168	5.167	—	—	—	—	—	—	—	—	—	—	—	—
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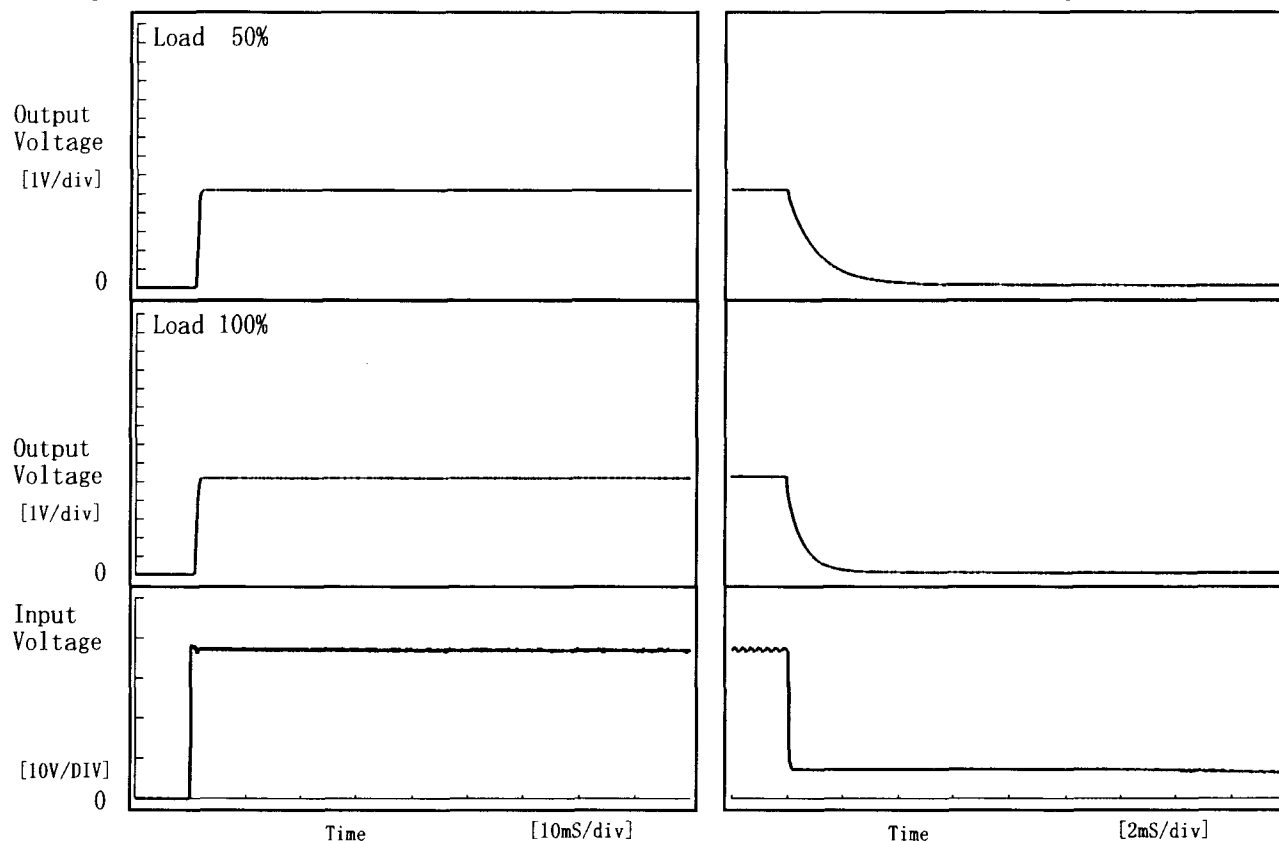
(注)斜線は定格負荷電流範囲を示す。

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Model	DAS1004805	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+5.0V20.00A		

1. Graph

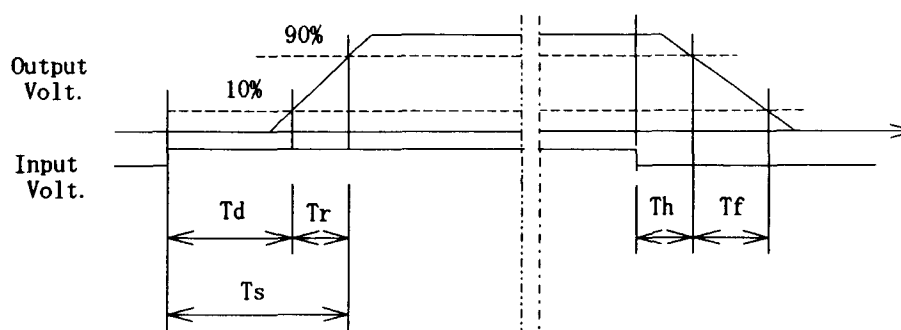
Input Volt. 36 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	0.80	0.50	1.30	0.10	2.76
100 %	0.80	0.60	1.40	0.03	1.39



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Model		DAS1004805	
Item		Ambient Temperature Drift 周囲温度変動	
Object		+5.0V20.00A	

1. Graph

△

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Input Volt. 36V

□

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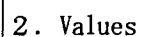
Input Volt. 48V

○

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Input Volt. 72V

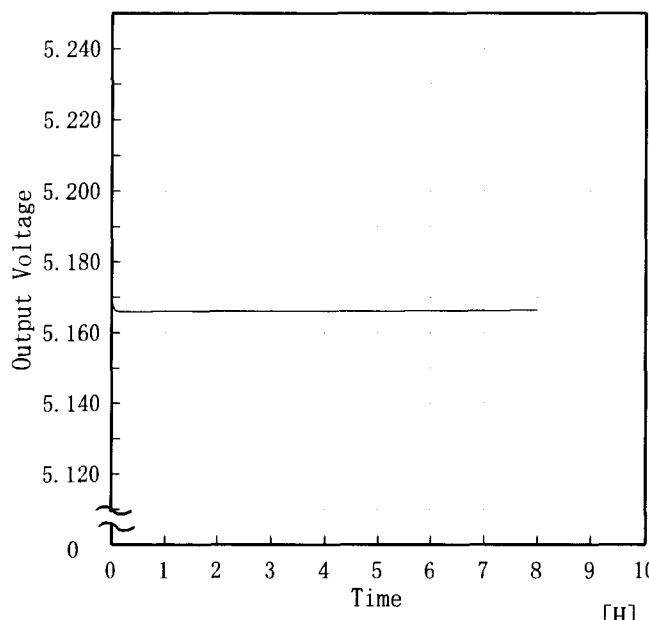
Output Voltage [V]

Testing Circuitry Figure A

Ambient Temp. [°C]	Load 50%	Load 100%
	Input Volt. [V]	Input Volt. [V]
-25	26.3	28.1
-10	26.3	28.7
0	26.3	29.2
15	26.8	29.2
25	26.8	29.6
40	27.3	30.1
55	27.3	30.6
70	27.8	31.1
85	28.2	31.5
90	28.2	31.5
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(注)斜線は定格周囲温度範囲を示す。

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Model	DAS1004805	Temperature 25 ℃ Testing Circuitry Figure A																							
Item	Time Lapse Drift 経時ドリフト																								
Object	+5.0V20.00A																								
1. Graph		2.Values																							
<div>[V]</div> <div></div> <div>Output Voltage [V]</div> <div>Time [H]</div> <div>Input Volt. 48V</div> <div>Load 100%</div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>5.171</td></tr><tr><td>0.5</td><td>5.166</td></tr><tr><td>1.0</td><td>5.166</td></tr><tr><td>2.0</td><td>5.166</td></tr><tr><td>3.0</td><td>5.166</td></tr><tr><td>4.0</td><td>5.166</td></tr><tr><td>5.0</td><td>5.166</td></tr><tr><td>6.0</td><td>5.166</td></tr><tr><td>7.0</td><td>5.166</td></tr><tr><td>8.0</td><td>5.166</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	5.171	0.5	5.166	1.0	5.166	2.0	5.166	3.0	5.166	4.0	5.166	5.0	5.166	6.0	5.166	7.0	5.166	8.0	5.166
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Model	DAS1004805	Testing Circuitry Figure A
Item	Output Voltage Accuracy 定電圧精度	
Object	+5.0V20.00A	

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 : -10~85 °C

Input Voltage : 36~72 V

Load Current : 0.00~20.00 A

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

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

定電圧精度

周囲温度、入力電圧、負荷を下記仕様内で、任意に変動させたときの出力電圧の変動をいう。

周囲温度 : -10~85 °C

入力電圧 : 36~72 V

負荷電流 : 0.00~20.00 A

* 定電圧精度(変動値) = $\pm (\text{出力電圧の最高値} - \text{出力電圧の最低値}) / 2$

* 定電圧精度(変動率) = $\frac{\text{変動値}}{\text{定格出力電圧}} \times 100$

Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy (Ration) [%]
Maximum Voltage	-10	36	20.00	5.178	±18	±0.4
Minimum Voltage	85	36	0.00	5.143		

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