

TEST DATA OF CHS1204805

Regulated DC Power Supply
May 10, 2016

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COSEL CO.,LTD.

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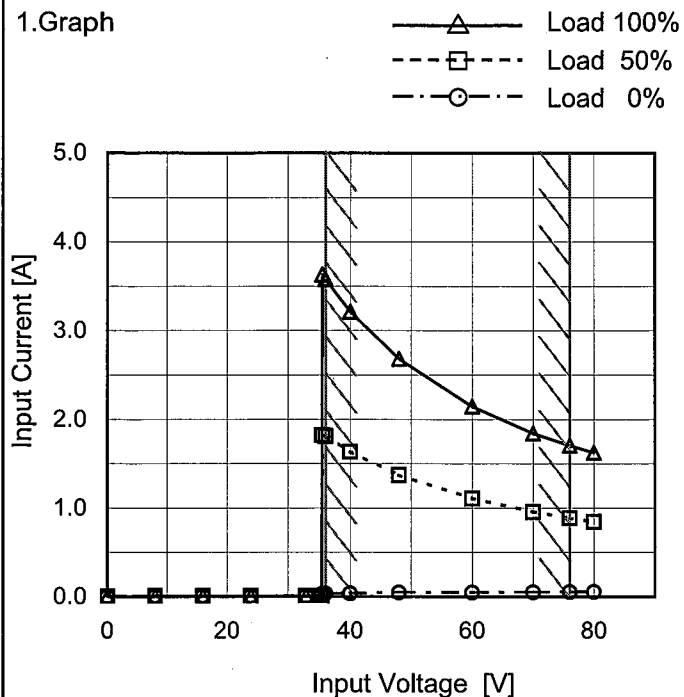
Model CHS1204805

Item Input Current (by Input Voltage)

Object

Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Input Voltage [V]	Input Current [A]		
	Load 0%	Load 50%	Load 100%
0.0	0.000	0.000	0.000
8.0	0.007	0.007	0.007
16.0	0.007	0.007	0.007
24.0	0.008	0.008	0.008
33.0	0.008	0.008	0.008
34.8	0.008	0.008	0.008
35.4	0.034	1.820	3.635
36.0	0.037	1.811	3.581
40.0	0.037	1.634	3.214
48.0	0.046	1.371	2.684
60.0	0.049	1.107	2.147
70.0	0.050	0.955	1.845
76.0	0.053	0.886	1.706
80.0	0.053	0.846	1.627
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Model	CHS1204805																																																					
Item	Input Current (by Load Current)	Temperature	25°C																																																			
		Testing Circuitry	Figure A																																																			
Object	_____																																																					
1.Graph		2.Values																																																				
<div><div>—△— Input Volt. 36V</div><div>- - □ - - Input Volt. 48V</div><div>- · ○ - · Input Volt. 76V</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">Input Current [A]</th></tr><tr><th>Input Volt. 36[V]</th><th>Input Volt. 48[V]</th><th>Input Volt. 76[V]</th></tr><tr><td>0.0</td><td>0.037</td><td>0.046</td><td>0.053</td></tr><tr><td>4.0</td><td>0.604</td><td>0.465</td><td>0.316</td></tr><tr><td>8.0</td><td>1.177</td><td>0.904</td><td>0.600</td></tr><tr><td>12.0</td><td>1.811</td><td>1.371</td><td>0.886</td></tr><tr><td>16.0</td><td>2.343</td><td>1.772</td><td>1.147</td></tr><tr><td>20.0</td><td>3.000</td><td>2.241</td><td>1.420</td></tr><tr><td>24.0</td><td>3.581</td><td>2.684</td><td>1.706</td></tr><tr><td>26.4</td><td>4.039</td><td>2.995</td><td>1.886</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. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	0.0	0.037	0.046	0.053	4.0	0.604	0.465	0.316	8.0	1.177	0.904	0.600	12.0	1.811	1.371	0.886	16.0	2.343	1.772	1.147	20.0	3.000	2.241	1.420	24.0	3.581	2.684	1.706	26.4	4.039	2.995	1.886	--	-	-	-	--	-	-	-	--	-	-	-
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Model		CHS1204805		Temperature 25°C																																																				
Item		Input Power (by Load Current)		Testing Circuitry Figure A																																																				
Object		_____																																																						
1.Graph		<div><div><div>—△—</div><div>---□---</div><div>-·-○-·-</div></div><div><div>Input Volt.</div><div>Input Volt.</div><div>Input Volt.</div></div><div><div>36V</div><div>48V</div><div>76V</div></div></div> <div><p>Input Power [W]</p><p>Load Current [A]</p></div>		2.Values																																																				
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Model		CHS1204805	
Item		Efficiency (by Input Voltage)	
Object			

1.Graph

Load 50%

Load 100%

Efficiency [%]

100

90

80

70

20

40

60

80

Input Voltage [V]

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

2.Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
35.5	94.9	92.8
36.0	95.0	93.0
40.0	94.4	93.0
48.0	93.1	93.0
55.0	92.4	92.9
60.0	91.7	92.8
70.0	91.1	92.4
76.0	90.8	92.2
80.0	90.6	92.0

Model		CHS1204805		Temperature 25°C																																																				
Item		Efficiency (by Load Current)		Testing Circuitry Figure A																																																				
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				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Efficiency [%]</th></tr><tr><th>Input Volt. 36[V]</th><th>Input Volt. 48[V]</th><th>Input Volt. 76[V]</th></tr><tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>4.0</td><td>92.3</td><td>89.1</td><td>83.0</td></tr><tr><td>8.0</td><td>94.1</td><td>91.9</td><td>87.6</td></tr><tr><td>12.0</td><td>95.0</td><td>93.1</td><td>90.8</td></tr><tr><td>16.0</td><td>94.5</td><td>93.9</td><td>91.9</td></tr><tr><td>20.0</td><td>93.8</td><td>93.6</td><td>92.6</td></tr><tr><td>24.0</td><td>93.0</td><td>93.0</td><td>92.2</td></tr><tr><td>26.4</td><td>92.4</td><td>92.7</td><td>92.1</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. 36[V]	Input Volt. 48[V]	Input Volt. 76[V]	0.0	-	-	-	4.0	92.3	89.1	83.0	8.0	94.1	91.9	87.6	12.0	95.0	93.1	90.8	16.0	94.5	93.9	91.9	20.0	93.8	93.6	92.6	24.0	93.0	93.0	92.2	26.4	92.4	92.7	92.1	--	-	-	-	--	-	-	-	--	-	-	-
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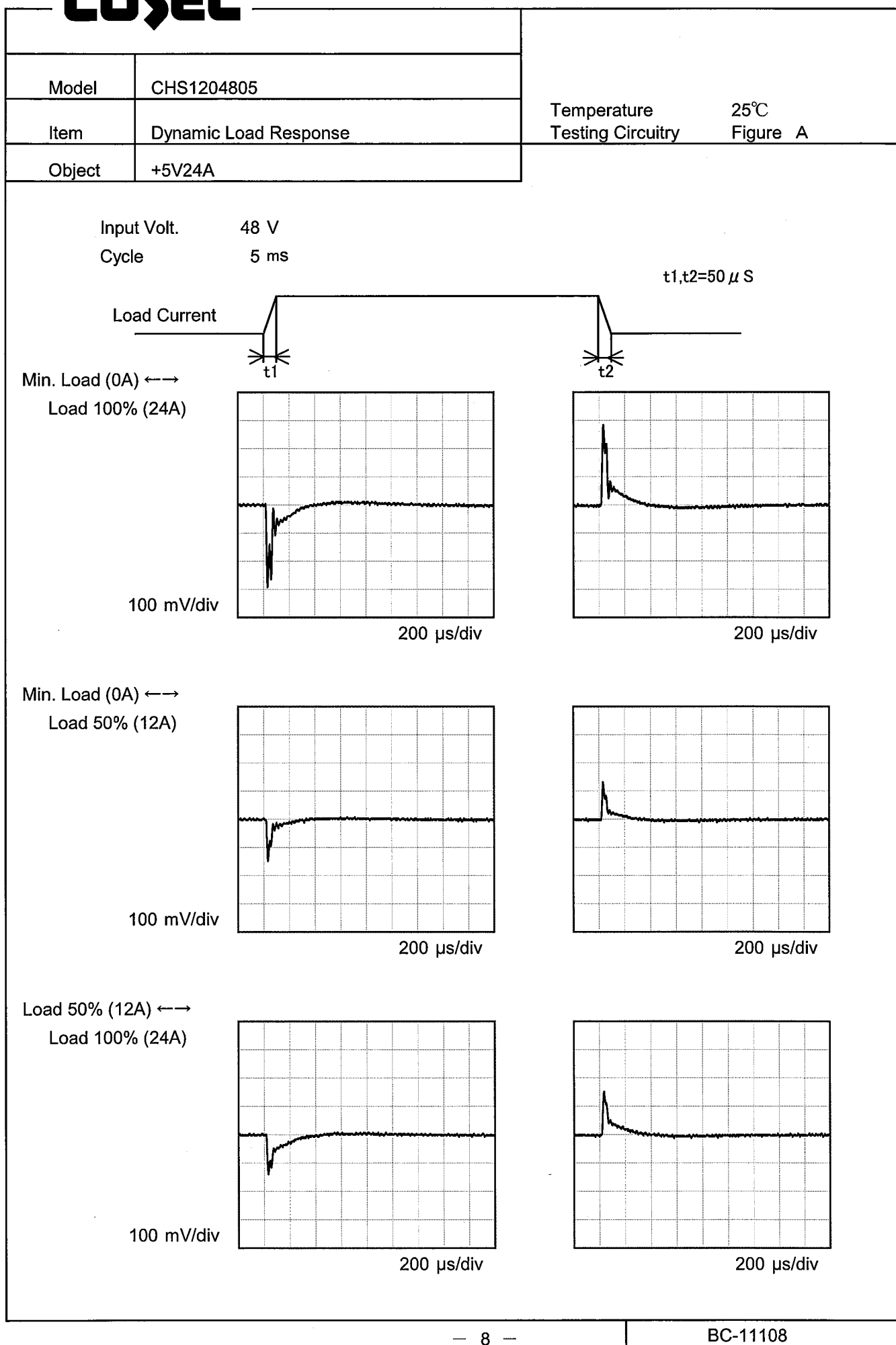
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Model	CHS1204805	Temperature 25°C Testing Circuitry Figure A																																	
Item	Line Regulation																																		
Object	+5V24A	2.Values																																	
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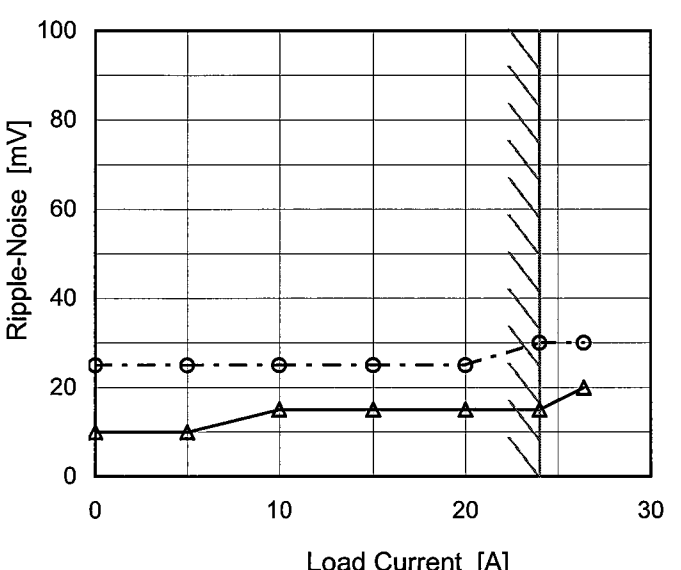
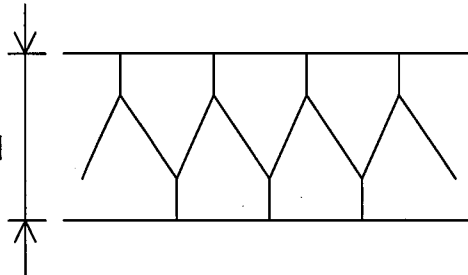
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Model		CHS1204805		Temperature 25°C	
Item		Ripple Voltage (by Load Current)		Testing Circuitry Figure B	
Object		+5V24A			
1.Graph				2.Values	
<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><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> 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COSEL

Model		CHS1204805																																							
Item		Ripple-Noise																																							
Object		+5V24A																																							
1.Graph		2.Values																																							
<div><div><div>—△—</div><div>Input Volt.</div><div>36V</div></div><div><div>-·-○-·-</div><div>Input Volt.</div><div>76V</div></div></div>  <p>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.</p> <div><div>Ripple Noise[mVp-p]</div></div> <p>Fig.Complex Ripple Noise Wave Form</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple-Noise [mV]</th></tr><tr><th>Input Volt. 36 [V]</th><th>Input Volt. 76 [V]</th></tr><tr><td>0.0</td><td>10</td><td>25</td></tr><tr><td>5.0</td><td>10</td><td>25</td></tr><tr><td>10.0</td><td>15</td><td>25</td></tr><tr><td>15.0</td><td>15</td><td>25</td></tr><tr><td>20.0</td><td>15</td><td>25</td></tr><tr><td>24.0</td><td>15</td><td>30</td></tr><tr><td>26.4</td><td>20</td><td>30</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Load Current [A]	Ripple-Noise [mV]		Input Volt. 36 [V]	Input Volt. 76 [V]	0.0	10	25	5.0	10	25	10.0	15	25	15.0	15	25	20.0	15	25	24.0	15	30	26.4	20	30	--	-	-	--	-	-	--	-	-	--	-	-
Load Current [A]	Ripple-Noise [mV]																																								
	Input Volt. 36 [V]	Input Volt. 76 [V]																																							
0.0	10	25																																							
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BC - 11108

BC-11108

		Testing Circuitry Figure A
Model	CHS1204805	
Item	Output Voltage Accuracy	
Object	+5V24A	

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 - 85°C

Input Voltage : 36 - 76V

Load Current : 0 - 24A

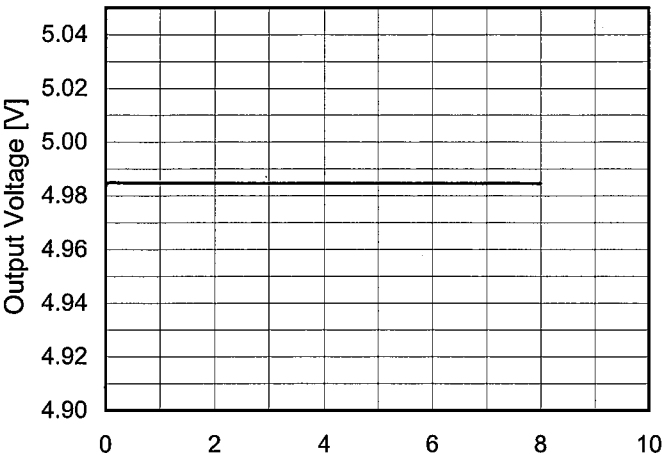
* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

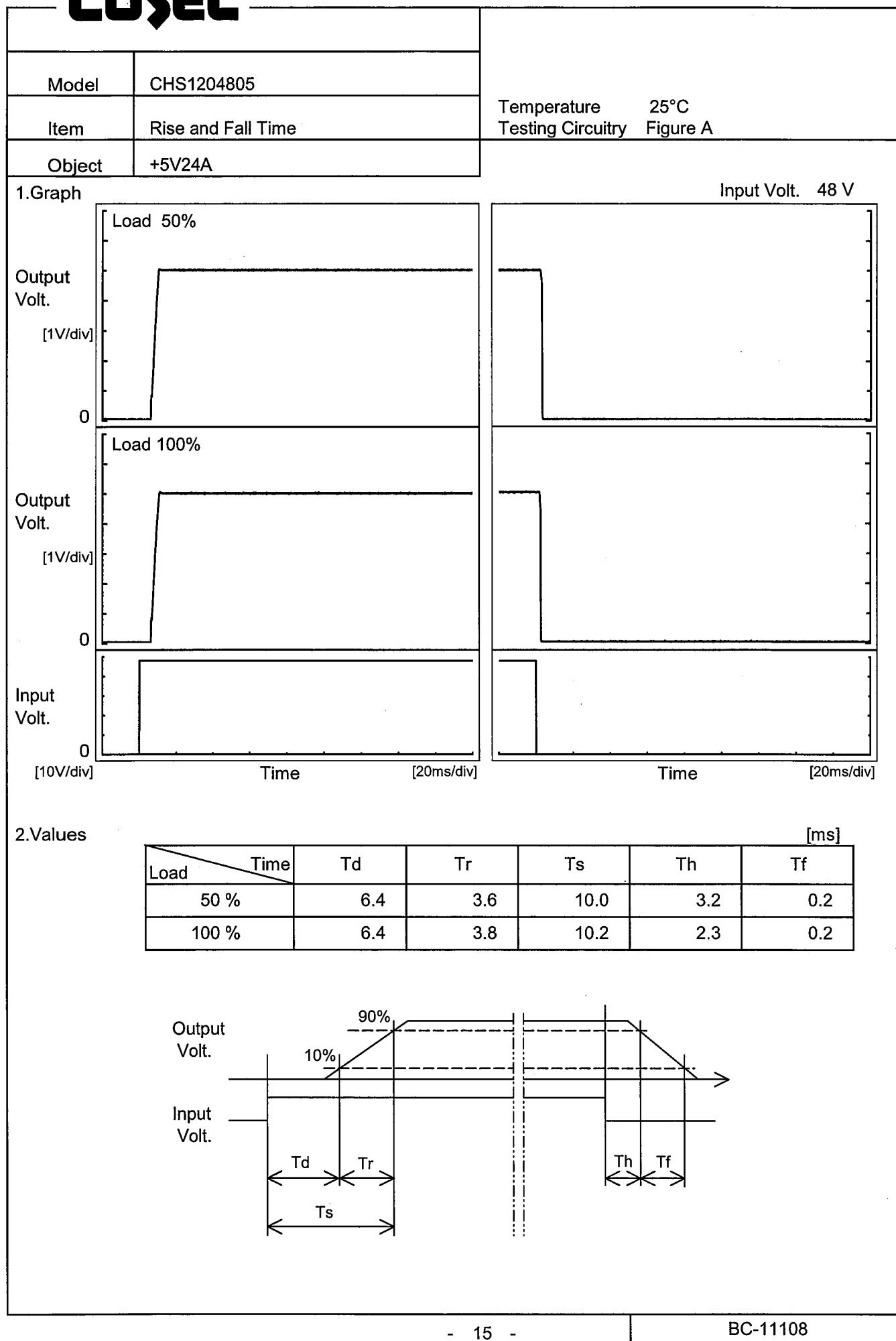
* Output Voltage Accuracy (Ration) = $\frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	85	76	24	4.994	±6	±0.1
Minimum Voltage	-20	76	0	4.982		

COSEL

Model	CHS1204805																								
Item	Time Lapse Drift	Temperature	25°C																						
Object	+5V24A	Testing Circuitry	Figure A																						
1.Graph		2.Values																							
<div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 48V</p><p>Load 100%</p></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>4.984</td></tr><tr><td>0.5</td><td>4.985</td></tr><tr><td>1.0</td><td>4.985</td></tr><tr><td>2.0</td><td>4.985</td></tr><tr><td>3.0</td><td>4.985</td></tr><tr><td>4.0</td><td>4.985</td></tr><tr><td>5.0</td><td>4.985</td></tr><tr><td>6.0</td><td>4.985</td></tr><tr><td>7.0</td><td>4.985</td></tr><tr><td>8.0</td><td>4.985</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	4.984	0.5	4.985	1.0	4.985	2.0	4.985	3.0	4.985	4.0	4.985	5.0	4.985	6.0	4.985	7.0	4.985	8.0	4.985
Time since start [H]	Output Voltage [V]																								
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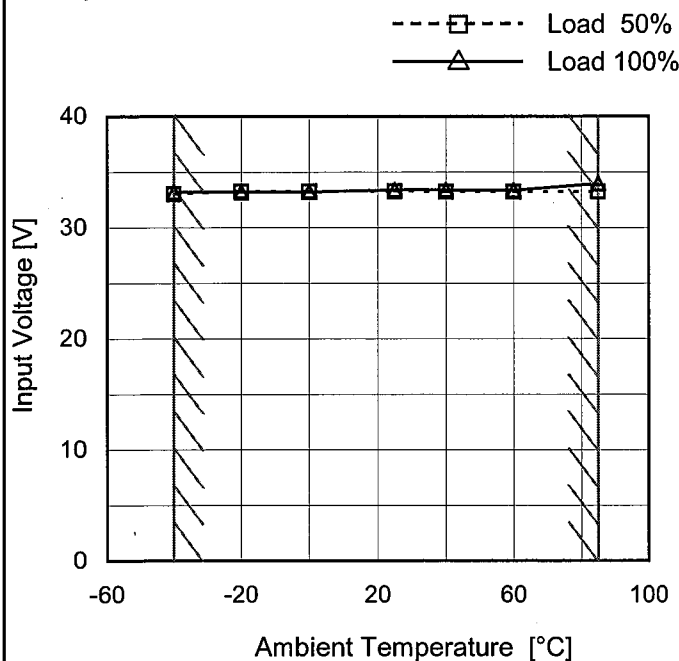
Model CHS1204805

Item Minimum Input Voltage
for Regulated Output Voltage

Object +5V24A

Testing Circuitry Figure A

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%
-40	33.1	33.3
-20	33.3	33.3
0	33.3	33.3
25	33.3	33.5
40	33.3	33.4
60	33.3	33.4
85	33.3	34.0
--	-	-
--	-	-
--	-	-
--	-	-

BC-11108

Model		CHS1204805	Testing Circuitry Figure A																																					
Item		Overvoltage Protection																																						
Object		+5V24A																																						
1.Graph			2.Values																																					
<div><div><div><div><div></div><div>—△—</div><div>Input Volt. 48V</div></div><div><div>---□---</div><div>Input Volt. 76V</div></div></div><div><p>Operating Point [V]</p><p>Ambient Temperature [°C]</p><p>Load 100%</p></div><p>Note: Slanted line shows the range of the rated ambient temperature.</p></div><table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Operating Point [V]</th></tr><tr><th>Input Volt. 48[V]</th><th>Input Volt. 76[V]</th></tr><tr><td>-40</td><td>6.8</td><td>6.7</td></tr><tr><td>-20</td><td>6.8</td><td>6.7</td></tr><tr><td>0</td><td>6.8</td><td>6.7</td></tr><tr><td>25</td><td>6.8</td><td>6.7</td></tr><tr><td>40</td><td>6.8</td><td>6.7</td></tr><tr><td>60</td><td>6.8</td><td>6.7</td></tr><tr><td>85</td><td>6.8</td><td>6.7</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table></div>			Ambient Temperature [°C]	Operating Point [V]		Input Volt. 48[V]	Input Volt. 76[V]	-40	6.8	6.7	-20	6.8	6.7	0	6.8	6.7	25	6.8	6.7	40	6.8	6.7	60	6.8	6.7	85	6.8	6.7	--	-	-	--	-	-	--	-	-	--	-	-
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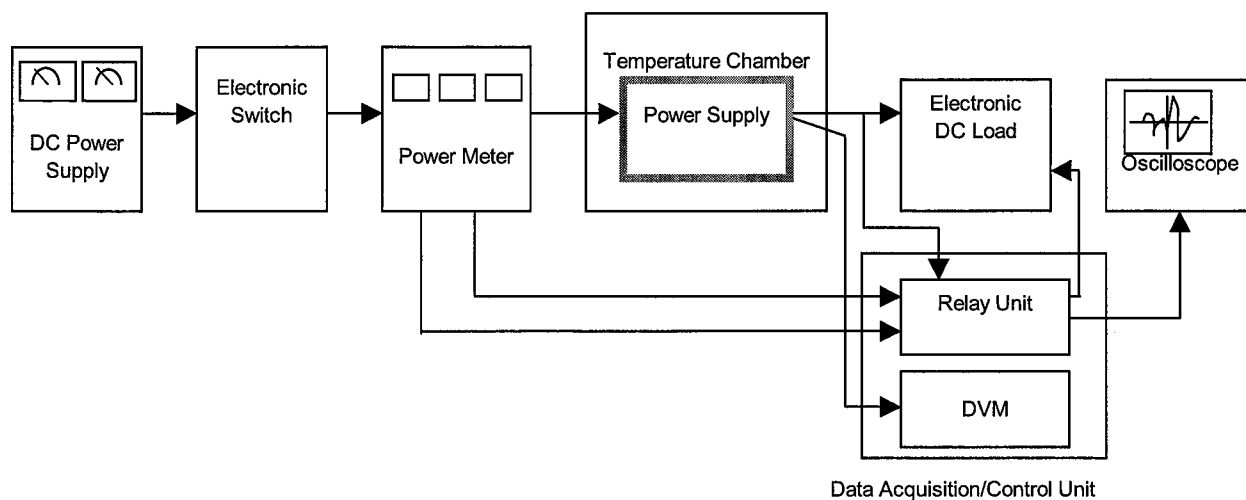


Figure A

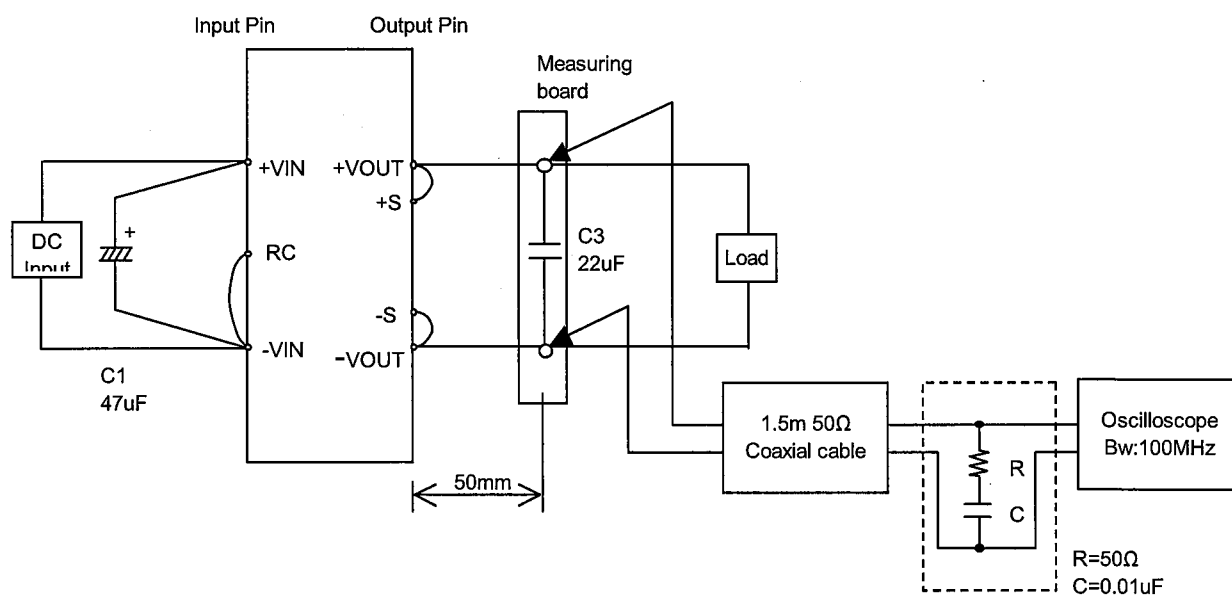


Figure B