



TEST DATA OF CQS24150-8

Regulated DC Power Supply
May 16, 2008

Approved by : Tatsuya Mano
Tatsuya Mano Design Manager

Prepared by : Yoshimichi Hirokawa
Yoshimichi Hirokawa Design Engineer

COSEL CO.,LTD.

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Model		CQS24150-8																																																																																
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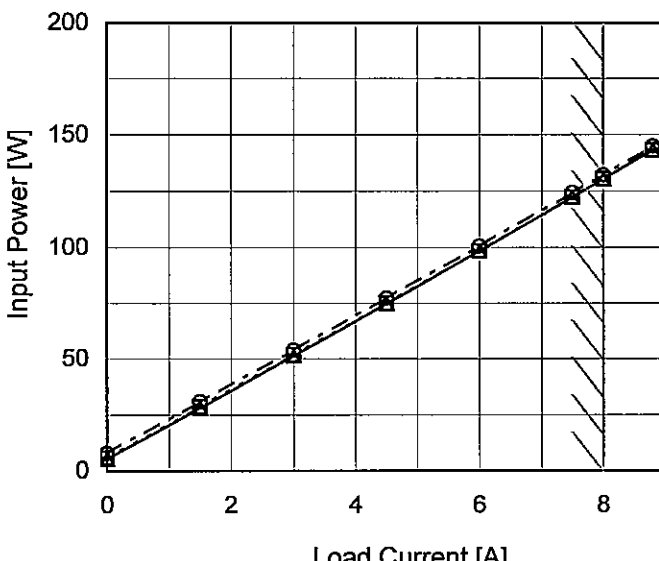
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		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Power [W]</th></tr><tr><th>Input Volt. 20[V]</th><th>Input Volt. 24[V]</th><th>Input Volt. 33[V]</th></tr><tr><td>0.0</td><td>5.4</td><td>5.8</td><td>8.0</td></tr><tr><td>1.5</td><td>28.2</td><td>28.7</td><td>31.0</td></tr><tr><td>3.0</td><td>51.4</td><td>51.9</td><td>54.0</td></tr><tr><td>4.5</td><td>74.8</td><td>75.1</td><td>77.4</td></tr><tr><td>6.0</td><td>98.5</td><td>98.6</td><td>100.7</td></tr><tr><td>7.5</td><td>122.4</td><td>122.4</td><td>124.4</td></tr><tr><td>8.0</td><td>130.4</td><td>130.4</td><td>132.2</td></tr><tr><td>8.8</td><td>143.4</td><td>143.3</td><td>145.0</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 Power [W]			Input Volt. 20[V]	Input Volt. 24[V]	Input Volt. 33[V]	0.0	5.4	5.8	8.0	1.5	28.2	28.7	31.0	3.0	51.4	51.9	54.0	4.5	74.8	75.1	77.4	6.0	98.5	98.6	100.7	7.5	122.4	122.4	124.4	8.0	130.4	130.4	132.2	8.8	143.4	143.3	145.0	--	-	-	-	--	-	-	-	--	-	-	-
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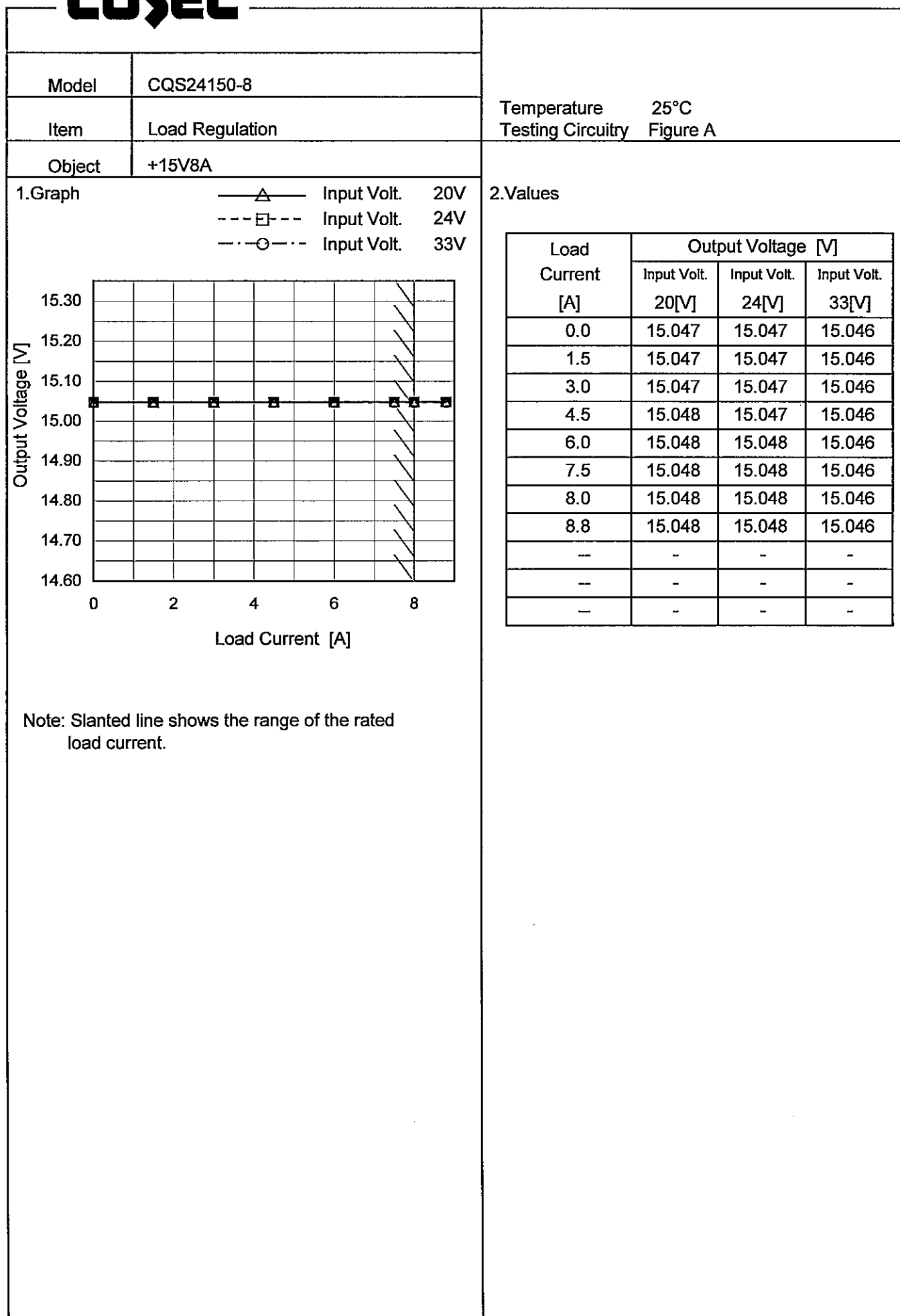
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Input Voltage [V]	Efficiency [%]																																		
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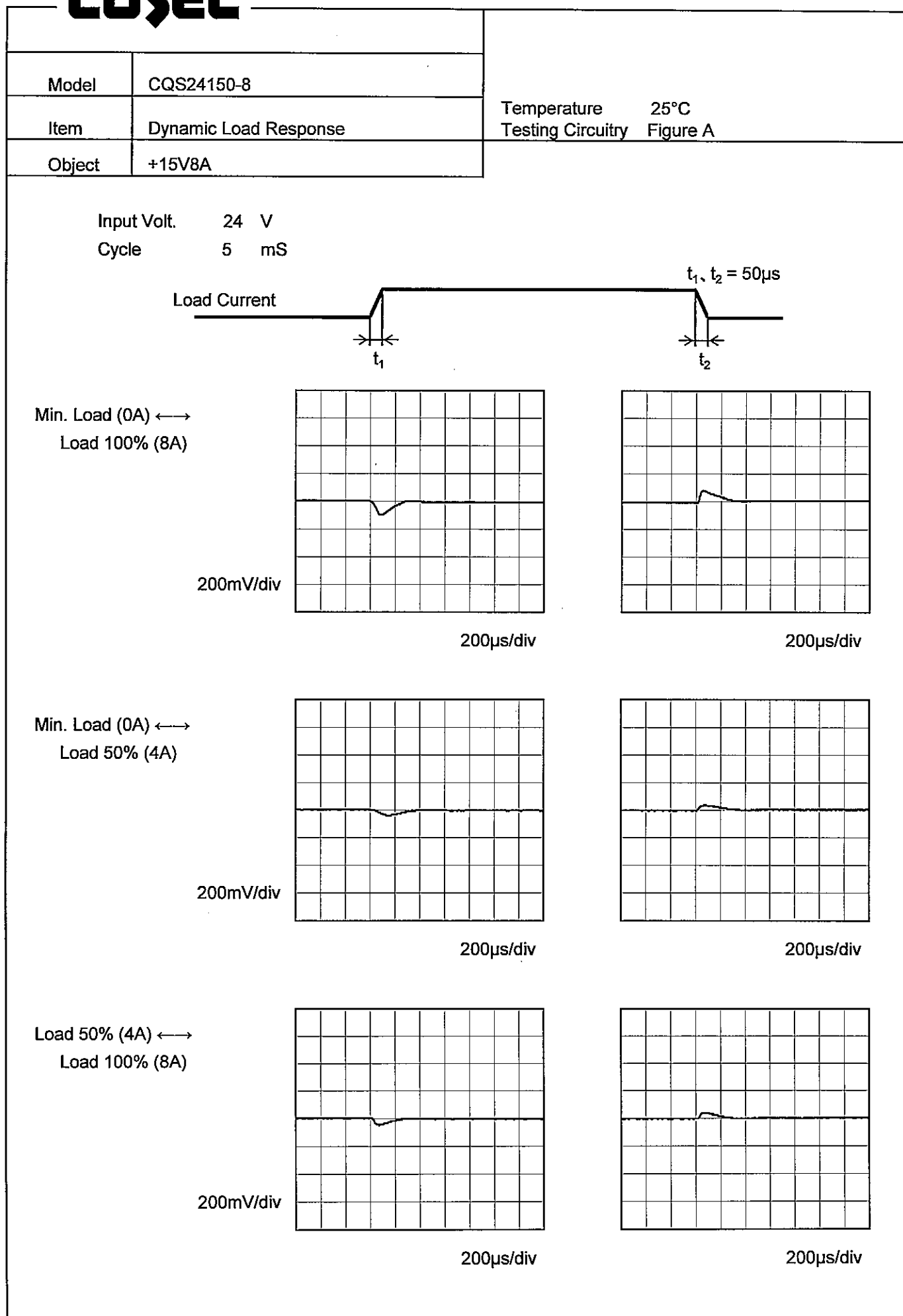
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Object	+15V8A																																		
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Item	Ripple Voltage (by Load Current)	Temperature	25°C																																						
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<div><div>Ripple [mVp-p]</div><div>Fig.Complex Ripple Wave Form</div></div>																																									

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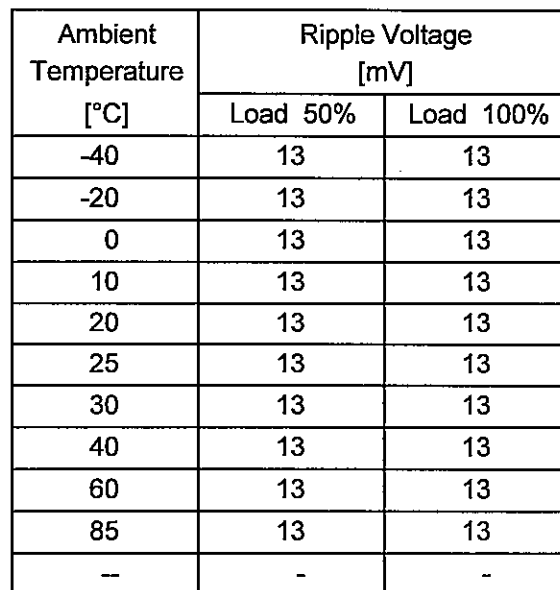
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<div><div><div><div></div><div>Ripple Noise[mVp-p]</div></div></div><p>Fig.Complex Ripple Noise Wave Form</p></div>																																									

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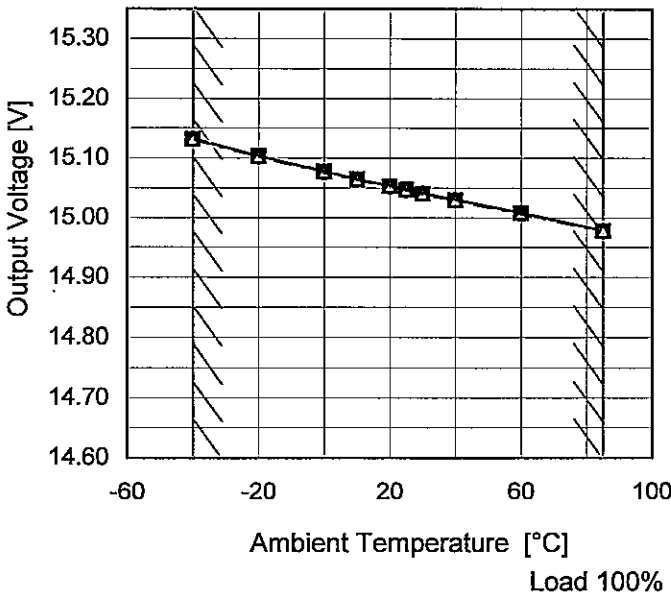
Testing Circuitry Figure A

2.Values



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

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Model		CQS24150-8																																																				
Item		Ambient Temperature Drift																																																				
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1.Graph		<div><div><div>—△—</div><div>Input Volt.</div><div>20V</div></div><div><div>---□---</div><div>Input Volt.</div><div>24V</div></div><div><div>---○---</div><div>Input Volt.</div><div>33V</div></div></div>																																																				
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Note: Slanted line shows the range of the rated ambient temperature.																																																						

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		Testing Circuitry Figure A
Model	CQS24150-8	
Item	Output Voltage Accuracy	
Object	+15V8A	

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 : 20 - 33V

Load Current : 0 - 8A

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

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

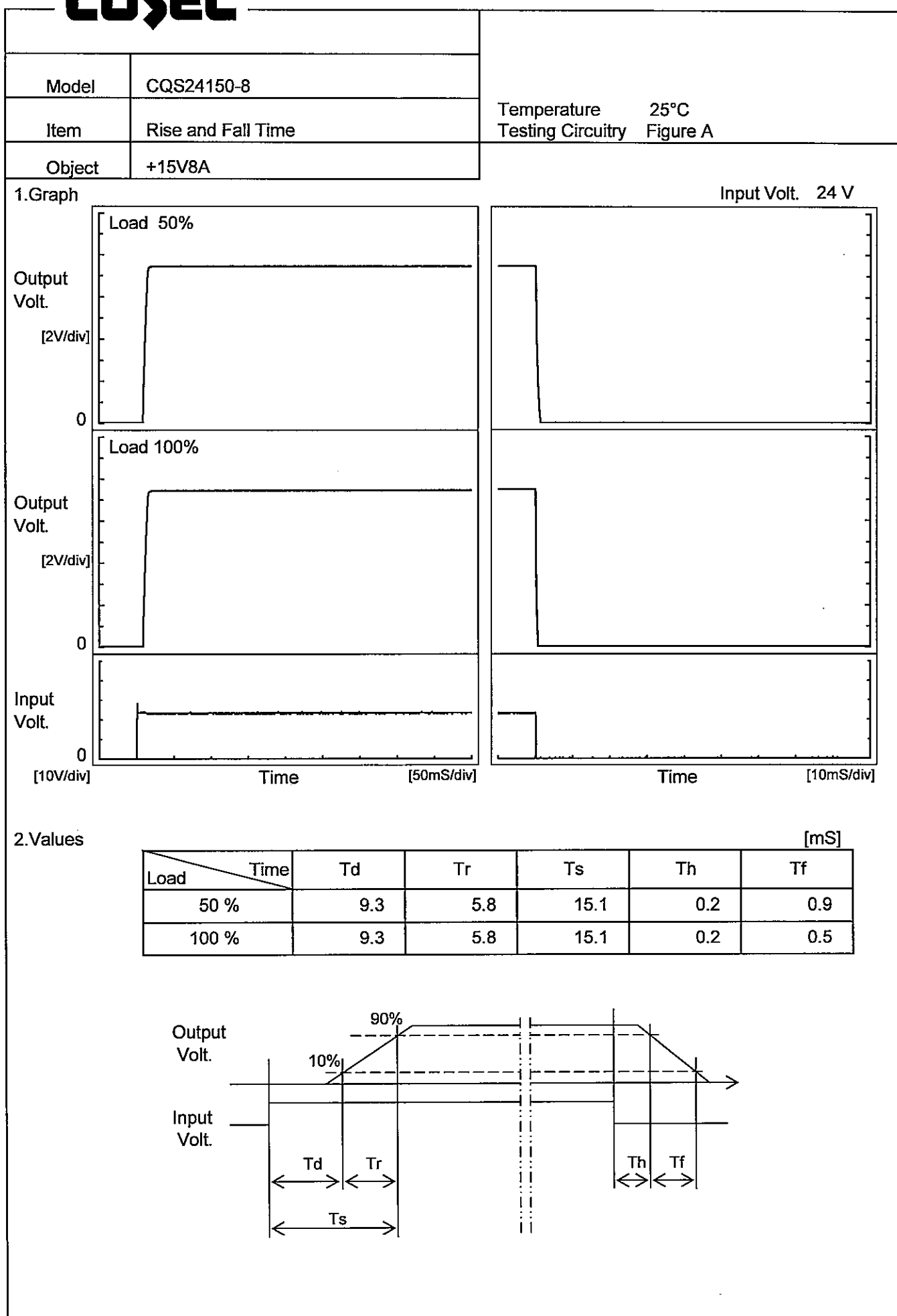
2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	-40	24	0	15.134	±79	±0.5
Minimum Voltage	85	33	8	14.977		

COSEL

Model	CQS24150-8		
Item	Time Lapse Drift	Temperature	25°C
		Testing Circuitry	Figure A
Object	+15V8A		
1.Graph		2.Values	
<div><div><div>Output Voltage [V]</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></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></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></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></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></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></di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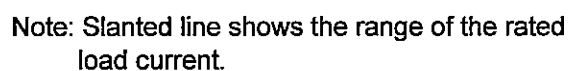
COSEL



		Testing Circuitry Figure A																																						
Model	CQS24150-8																																							
Item	Minimum Input Voltage for Regulated Output Voltage																																							
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85	17.2	17.6																																						
—	-	-																																						
Note: Slanted line shows the range of the rated ambient temperature.																																								

Temperature 25°C
Testing Circuitry Figure A

2.Values



Output Voltage [V]	Load Current [A]		
	Input Volt. 20[V]	Input Volt. 24[V]	Input Volt. 33[V]
15.0	8.03	8.03	8.03
14.3	9.43	9.46	9.82
13.5	9.34	9.39	9.79
12.0	9.13	9.29	9.75
10.5	9.00	9.22	9.75
9.0	8.95	9.20	9.79
7.5	8.97	9.27	9.95
--	-	-	-
--	-	-	-
--	-	-	-
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--	-	-	-

COSEL

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

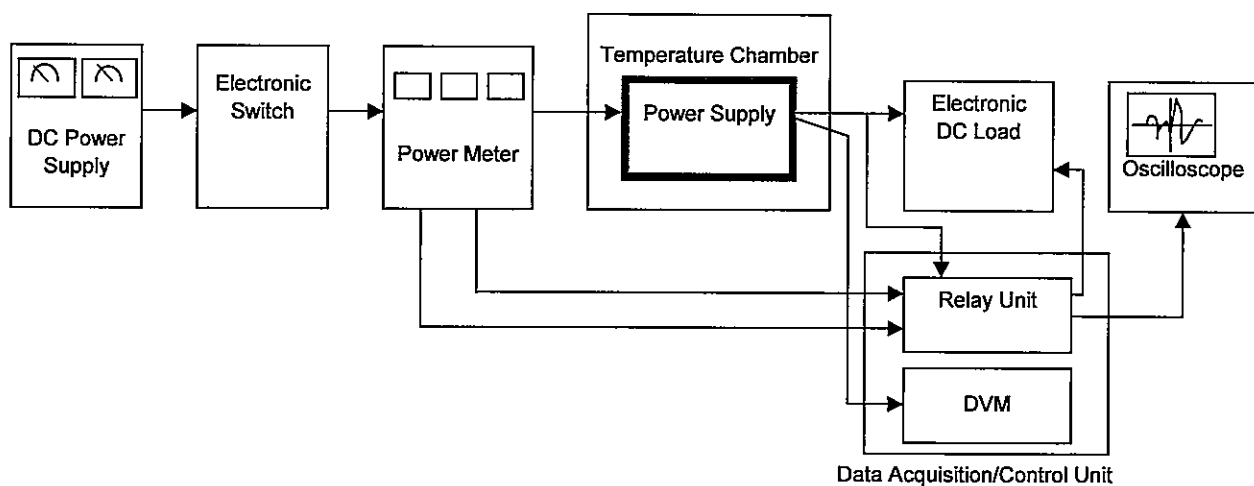


Figure A

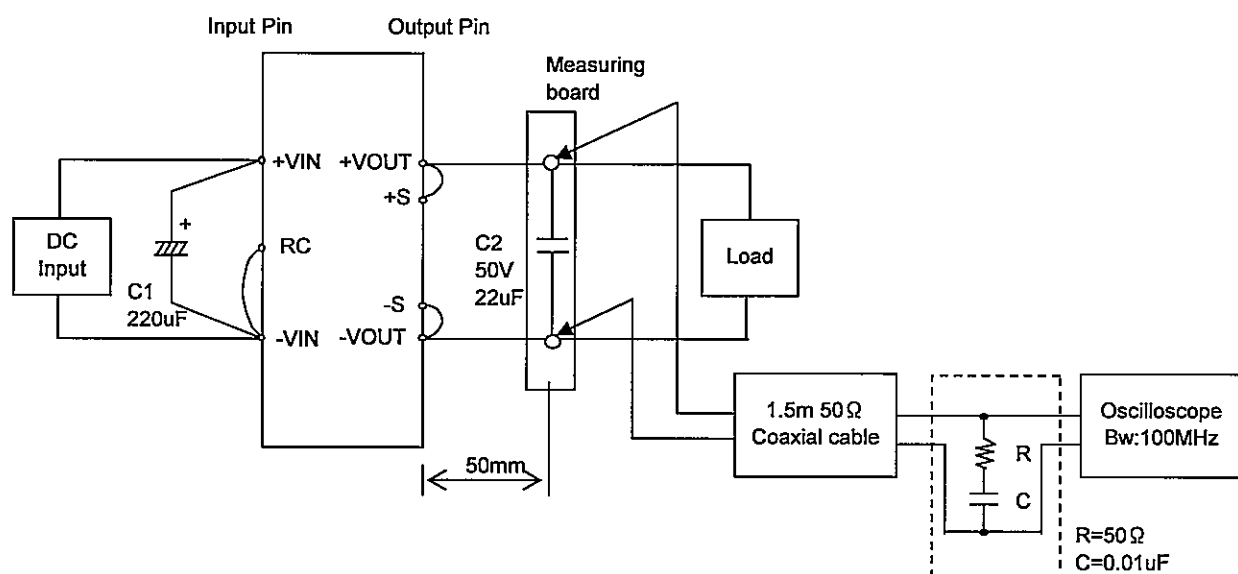


Figure B