

TEST DATA OF GT2.5-24

Regulated DC Power Supply
July 23, 2010

Approved by : Eiyoshi Wakamatsu
Eiyoshi Wakamatsu Design Manager

Prepared by : Satoshi Kinoshita
Satoshi Kinoshita Design Engineer

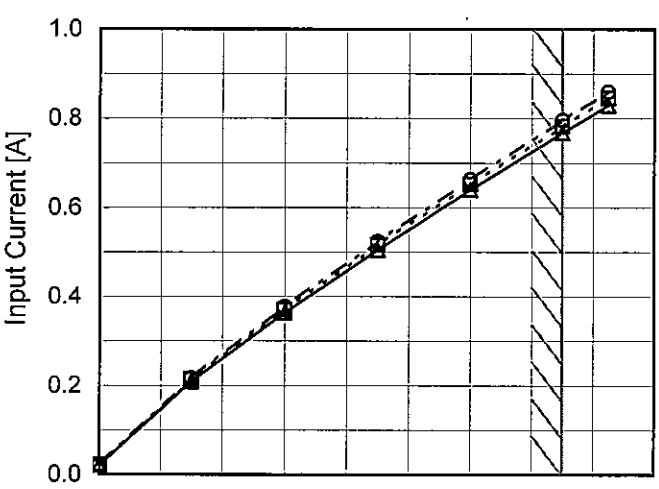
COSEL CO.,LTD.

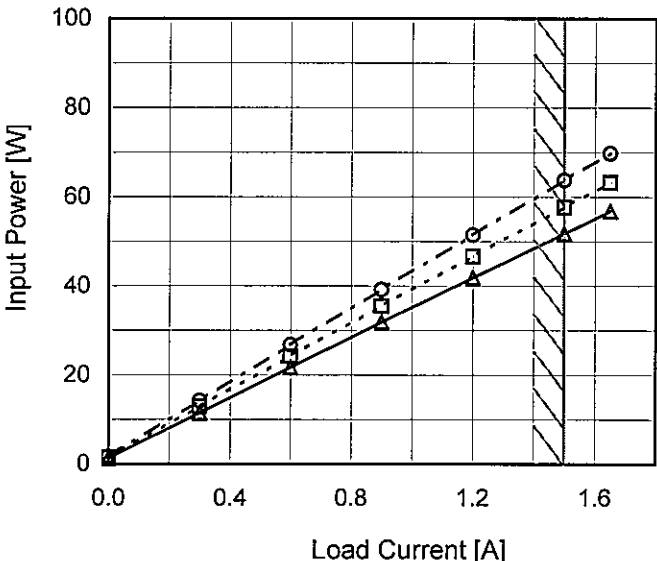
CONTENTS

1.Input Current (by Load Current)	1
2.Input Power (by Load Current)	2
3.Efficiency (by Input Voltage)	3
4.Efficiency (by Load Current)	4
5.Power Factor (by Input Voltage)	5
6.Power Factor (by Load Current)	6
7.Inrush Current	7
8.Line Regulation	8
9.Load Regulation	9
10.Dynamic Load Response	10
11.Ripple Voltage (by Load Current)	11
12.Ripple Voltage (by Ambient Temperature)	12
13.Ambient Temperature Drift	13
14.Output Voltage Accuracy	14
15.Time Lapse Drift	15
16.Rise and Fall Time	16
17.Hold-Up Time	17
18.Instantaneous Interruption Compensation	18
19.Minimum Input Voltage for Regulated Output Voltage	19
20.Overcurrent Protection	20
21.Figure of Testing Circuitry	21

(Final Page 21)

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Model		GT2.5-24		Temperature		25°C																																																				
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<div><div><div>86</div><div>78</div><div>70</div><div>62</div><div>54</div><div>46</div><div>38</div><div>30</div></div><div>Efficiency [%]</div><div><div>0.0</div><div>0.4</div><div>0.8</div><div>1.2</div><div>1.6</div></div><div>Load Current [A]</div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Efficiency [%]</th></tr><tr><th>Input Volt. 90[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 110[V]</th></tr><tr><td>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.30</td><td>62.6</td><td>56.0</td><td>50.7</td></tr><tr><td>0.60</td><td>66.5</td><td>59.7</td><td>53.9</td></tr><tr><td>0.90</td><td>68.0</td><td>61.1</td><td>55.3</td></tr><tr><td>1.20</td><td>69.0</td><td>61.9</td><td>56.2</td></tr><tr><td>1.50</td><td>69.8</td><td>62.7</td><td>56.7</td></tr><tr><td>1.65</td><td>70.0</td><td>62.9</td><td>57.0</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><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>		Load Current [A]	Efficiency [%]			Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]	0.00	-	-	-	0.30	62.6	56.0	50.7	0.60	66.5	59.7	53.9	0.90	68.0	61.1	55.3	1.20	69.0	61.9	56.2	1.50	69.8	62.7	56.7	1.65	70.0	62.9	57.0	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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Model

GT2.5-24

Item

Power Factor (by Input Voltage)

Object

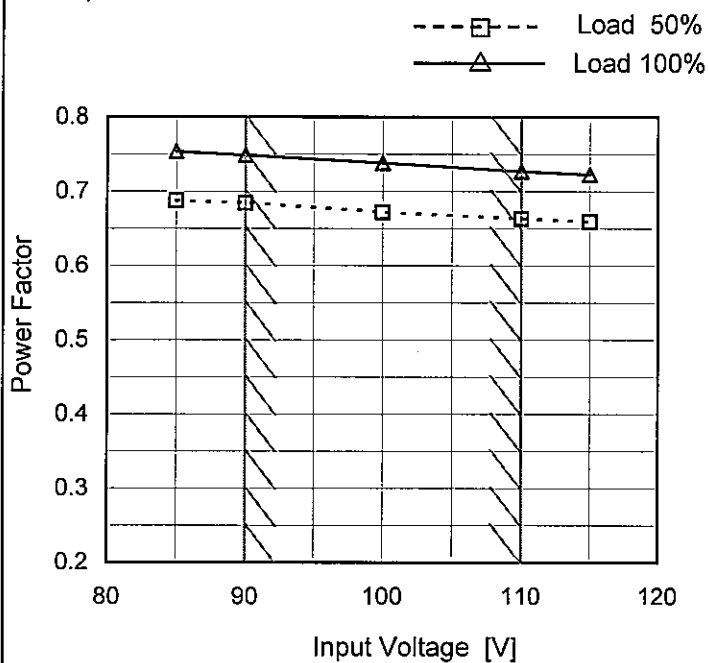
Temperature

25°C

Testing Circuitry

Figure A

1. Graph



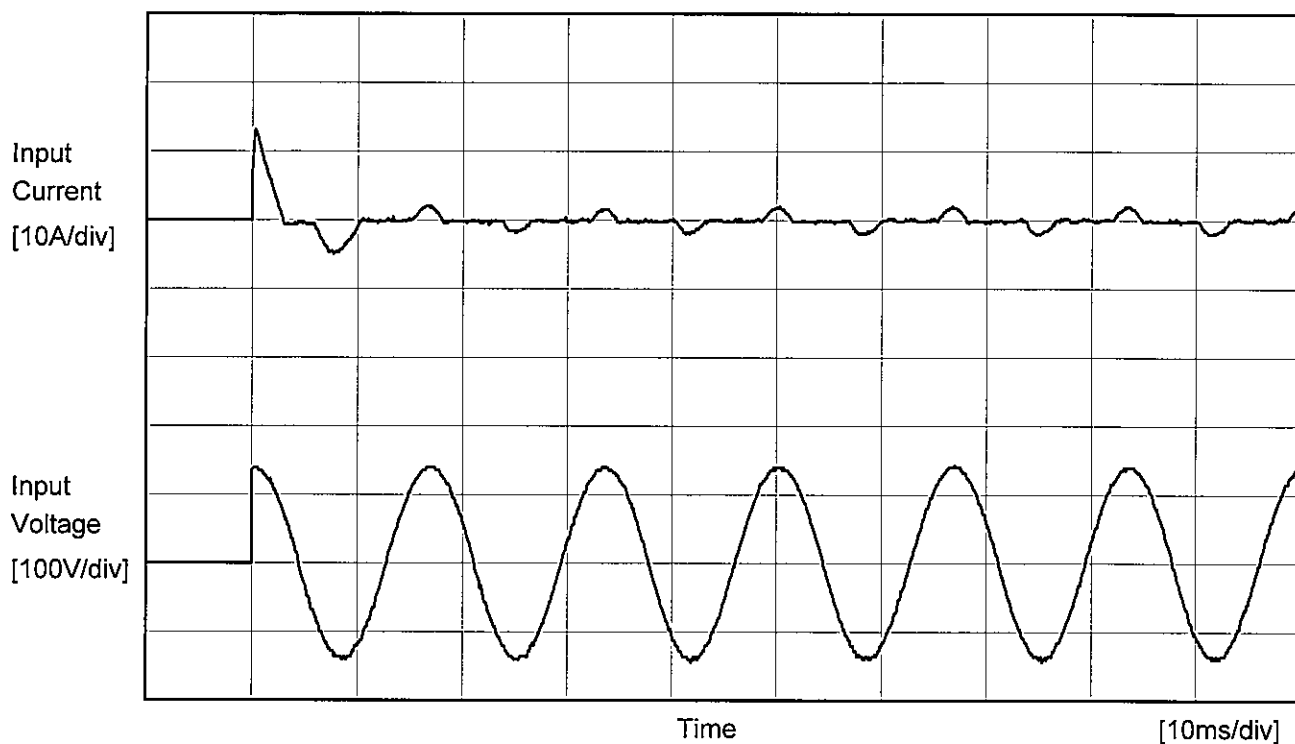
2. Values

Input Voltage [V]	Power Factor	
	Load 50%	Load 100%
85	0.688	0.754
90	0.684	0.749
100	0.672	0.738
110	0.663	0.727
115	0.659	0.723
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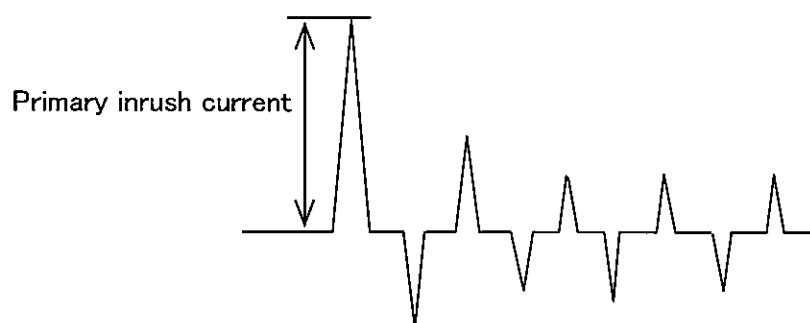
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Model	GT2.5-24	Temperature	25°C
Item	Inrush Current	Testing Circuitry	Figure A
Object	_____		



Input Voltage 100 V
 Frequency 60 Hz
 Load 100 %

Primary inrush current 13.3 A



Model	GT2.5-24																																
Item	Line Regulation	Temperature	25°C																														
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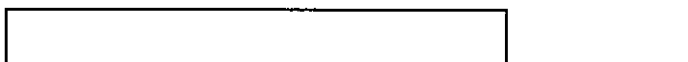
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Model	GT2.5-24		
Item	Dynamic Load Response	Temperature	25°C
Object	+24V1.5A	Testing Circuitry	Figure A

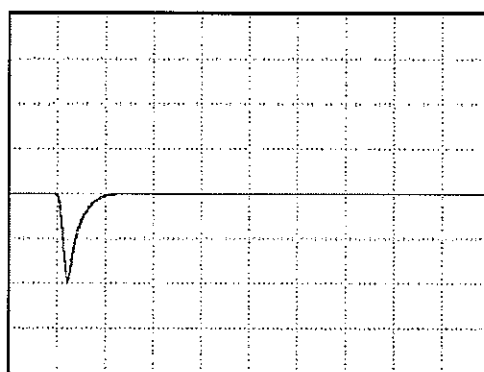
Input Volt. 100 V
Cycle 1000 ms

Load Current

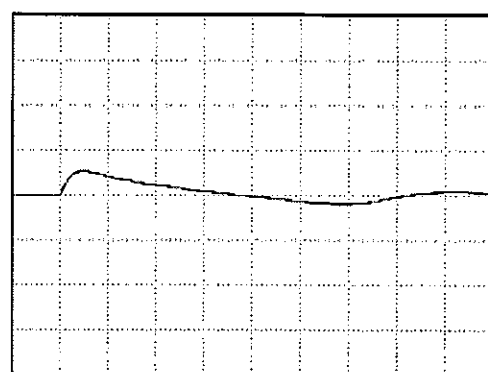


Min. Load (0A) \longleftrightarrow
Load 100% (1.5A)

100 mV/div



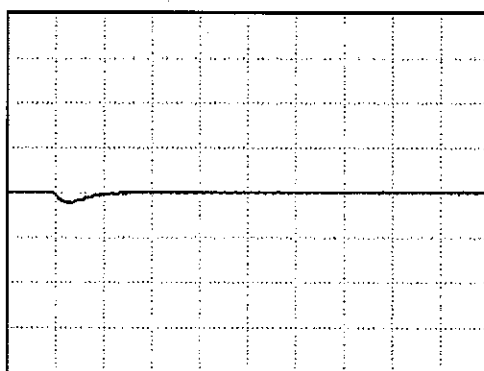
100 μ s/div



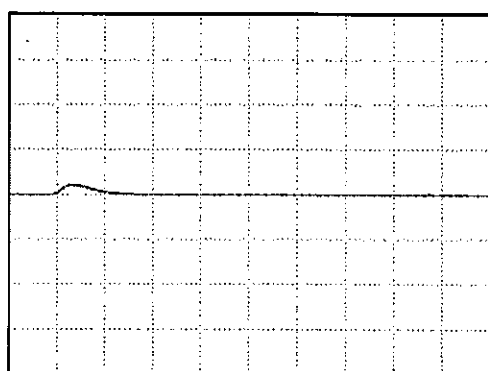
100 μ s/div

Load 50% (0.75A) \longleftrightarrow
Load 100% (1.5A)

100 mV/div



100 μ s/div



100 μ s/div

COSEL

Model	GT2.5-24																																											
Item	Ripple Voltage (by Load Current)	Temperature	25°C																																									
		Testing Circuitry	Figure A																																									
Object	+24V1.5A																																											
1.Graph		2.Values																																										
<div><div><div>—△—</div><div>Input Volt.</div><div>90V</div></div><div><div>- - ○ - -</div><div>Input Volt.</div><div>110V</div></div></div> <p>Measured by 20 MHz Oscilloscope. Note: Slanted line shows the range of the rated load current.</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 90 [V]</th><th>Input Volt. 110 [V]</th></tr><tr><td>0.00</td><td>1.0</td><td>1.0</td></tr><tr><td>0.75</td><td>1.2</td><td>1.2</td></tr><tr><td>1.50</td><td>1.4</td><td>1.4</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><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><tr><td>--</td><td>-</td><td>-</td></tr></table>		Load Current [A]	Ripple Voltage [mV]		Input Volt. 90 [V]	Input Volt. 110 [V]	0.00	1.0	1.0	0.75	1.2	1.2	1.50	1.4	1.4	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
Load Current [A]	Ripple Voltage [mV]																																											
	Input Volt. 90 [V]	Input Volt. 110 [V]																																										
0.00	1.0	1.0																																										
0.75	1.2	1.2																																										
1.50	1.4	1.4																																										
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Testing Circuitry Figure A

2.Values

[illegible]

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

Model

GT2.5-24

Item

Ambient Temperature Drift

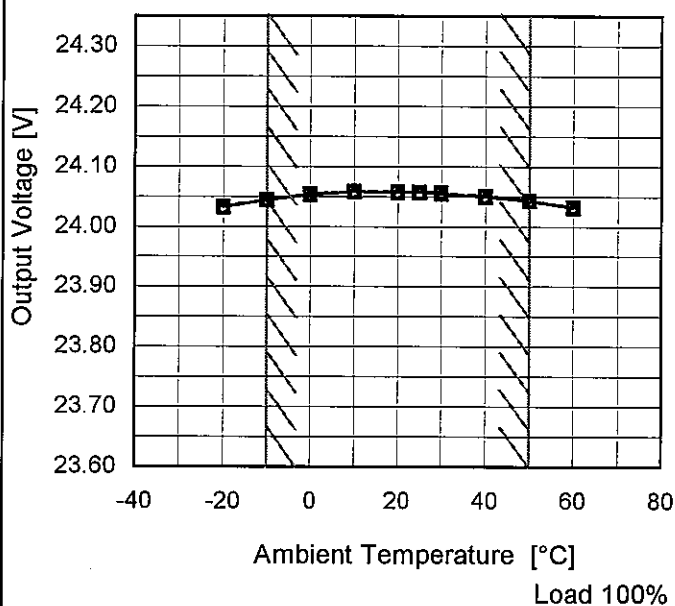
Object

+24V1.5A

Testing Circuitry Figure A

1.Graph

—△— Input Volt. 90V
 ---□--- Input Volt. 100V
 ---○--- Input Volt. 110V



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

2.Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]
-20	24.032	24.033	24.033
-10	24.044	24.044	24.045
0	24.053	24.054	24.054
10	24.058	24.059	24.059
20	24.057	24.058	24.058
25	24.057	24.057	24.058
30	24.055	24.056	24.056
40	24.050	24.050	24.051
50	24.043	24.043	24.044
60	24.032	24.032	24.032
--	-	-	-

		Testing Circuitry Figure A
Model	GT2.5-24	
Item	Output Voltage Accuracy	
Object	+24V1.5A	

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 : -10 - 50°C

Input Voltage : 90 - 110V

Load Current : 0 - 1.5A

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

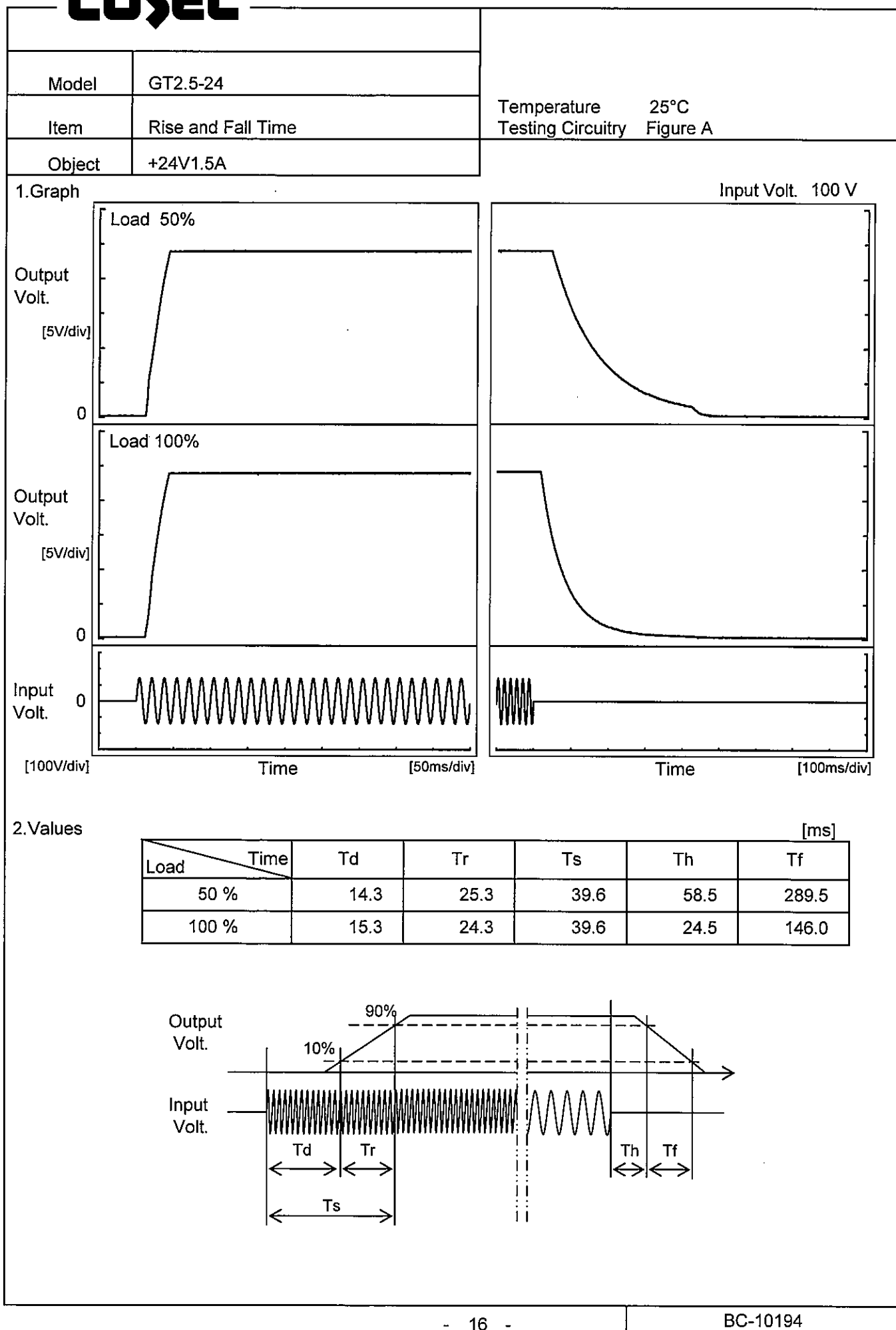
* Output Voltage Accuracy (Ratio) = $\frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ratio [%]
Maximum Voltage	10	110	0	24.059	±8	±0.1
Minimum Voltage	50	90	1.5	24.043		



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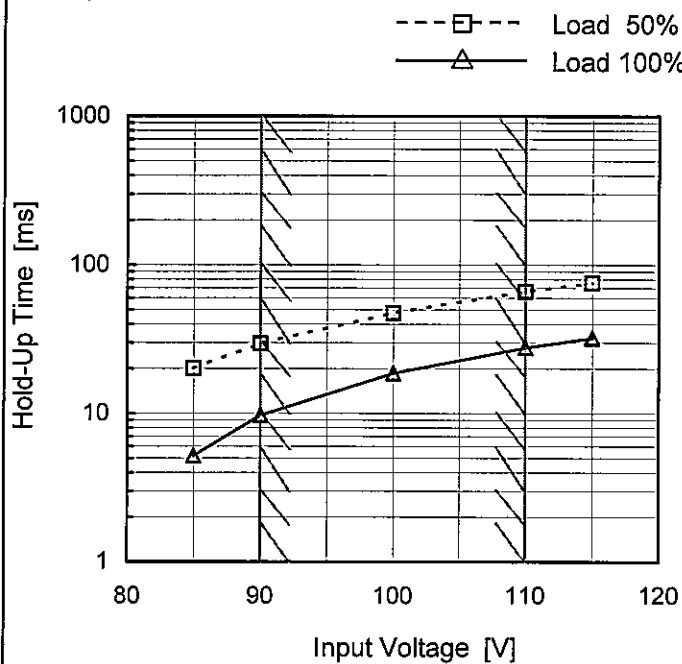
Model GT2.5-24

Item Hold-Up Time

Object +24V1.5A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.
Note: Slanted line shows the range of the rated input voltage.

2. Values

Input Voltage [V]	Hold-Up Time [ms]	
	Load 50%	Load 100%
85	20	5
90	30	10
100	48	19
110	66	28
115	76	32
--	-	-
--	-	-
--	-	-
--	-	-

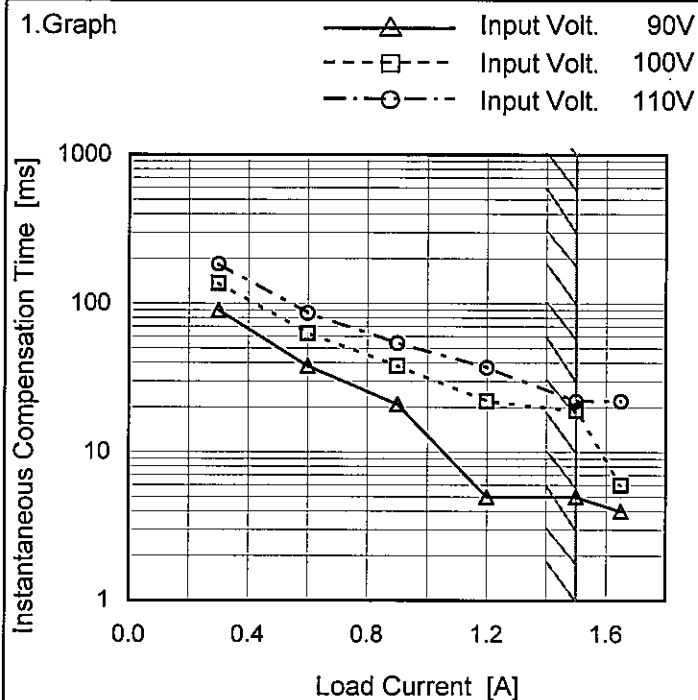
COSEL

Model GT2.5-24

Item Instantaneous Interruption Compensation

Object +24V1.5A

Temperature 25°C
Testing Circuitry Figure A



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

2.Values

Load Current [A]	Time [ms]		
	Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]
0.00	-	-	-
0.30	90	137	184
0.60	38	63	86
0.90	21	38	54
1.20	5	22	37
1.50	5	19	22
1.65	4	6	22
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

Model

GT2.5-24

Item

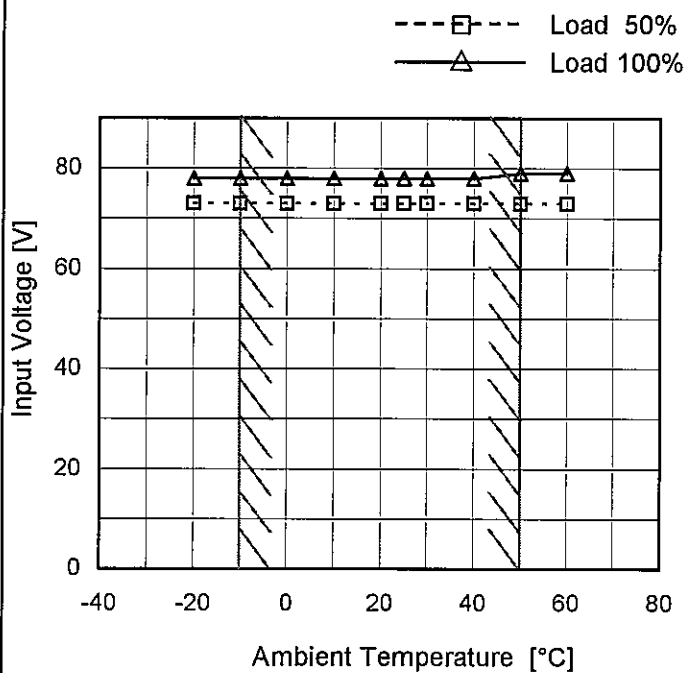
Minimum Input Voltage
for Regulated Output Voltage

Object

+24V1.5A

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%
-20	73	78
-10	73	78
0	73	78
10	73	78
20	73	78
25	73	78
30	73	78
40	73	78
50	73	79
60	73	79
--	-	-

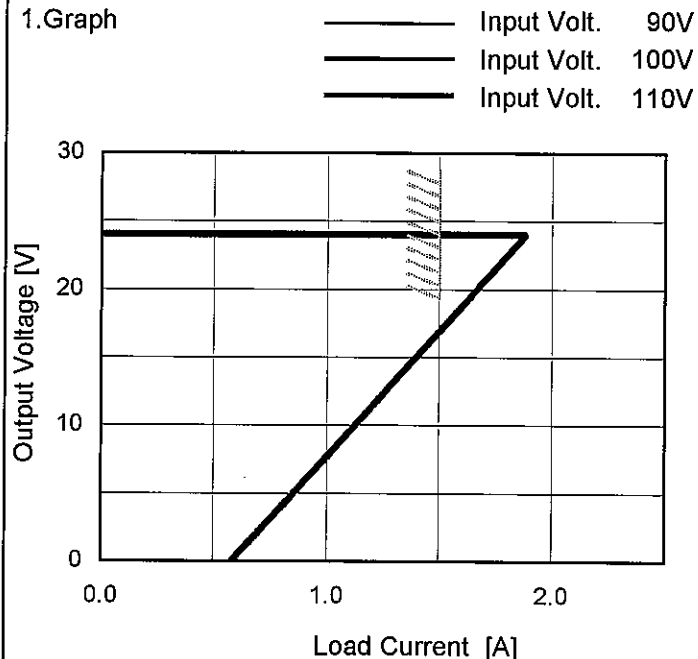
Model GT2.5-24

Item Overcurrent Protection

Object +24V1.5A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Output Voltage [V]	Load Current [A]		
	Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]
24.0	1.88	1.88	1.88
22.8	1.82	1.82	1.82
21.6	1.76	1.76	1.76
19.2	1.64	1.64	1.64
16.8	1.50	1.50	1.50
14.4	1.37	1.37	1.37
12.0	1.24	1.24	1.24
9.6	1.12	1.12	1.10
7.2	0.98	0.98	0.98
4.8	0.85	0.85	0.85
2.4	0.72	0.72	0.72
0.0	0.58	0.58	0.58

COSEL

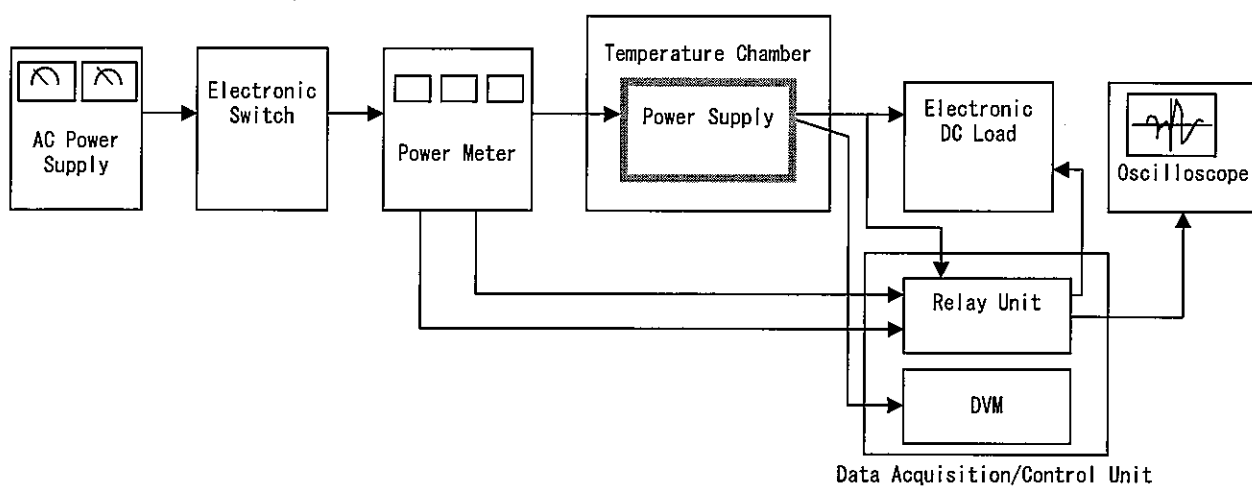


Figure A