

# TEST DATA OF CBS3502432

Regulated DC Power Supply  
Dec.15. 2004

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Kiyokazu Tajima Design Engineer

**COSEL CO.,LTD.**

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# COSEL

Model

CBS3502432

Item

Input Current (by Input Voltage)

Object

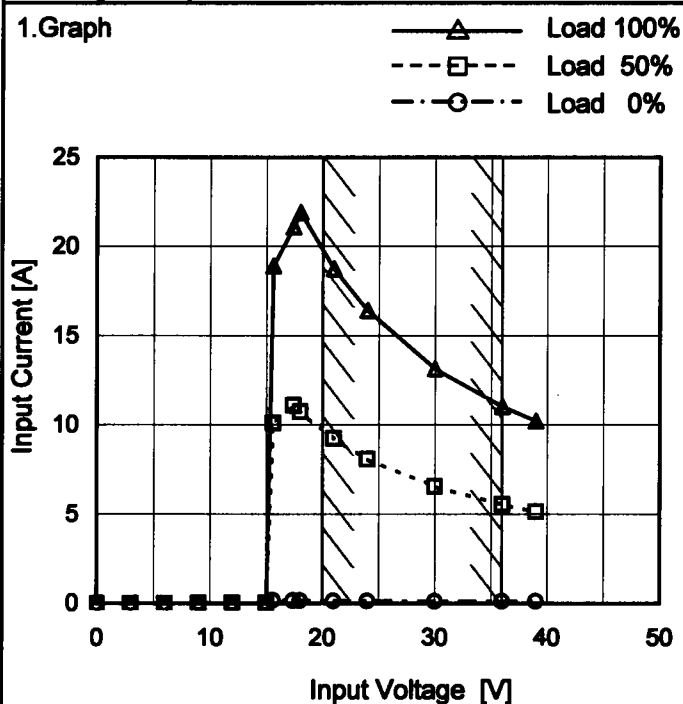
Temperature

25°C

Testing Circuitry

Figure A

## 1. Graph



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
3.0	0.000	0.000	0.000
6.0	0.000	0.000	0.000
9.0	0.018	0.019	0.019
12.0	0.016	0.016	0.014
15.0	0.012	0.015	0.011
15.6	0.174	10.103	18.903
17.4	0.162	11.102	21.107
18.0	0.159	10.733	21.911
21.0	0.150	9.250	18.747
24.0	0.146	8.080	16.422
30.0	0.134	6.560	13.150
36.0	0.135	5.541	11.023
39.0	0.134	5.142	10.214
—	—	—	—
—	—	—	—

**COSEL**

Model

CBS3502432

Item

Input Current (by Load Current)

Object

Temperature

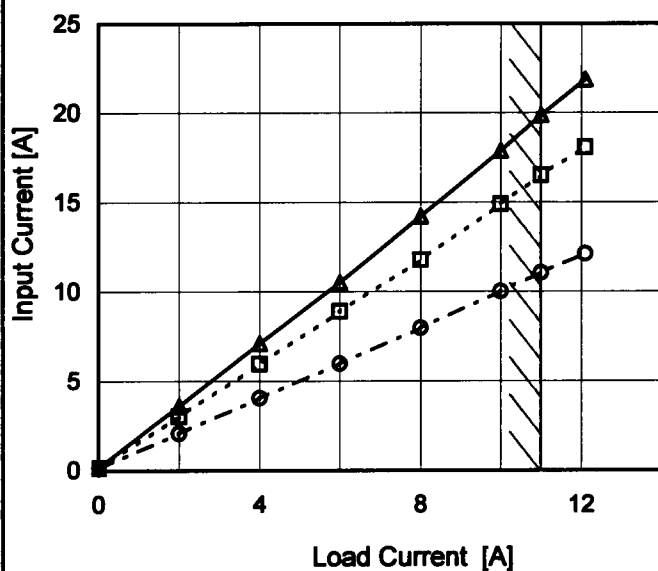
25°C

Testing Circuitry

Figure A

1. Graph

—△— Input Volt. 20V  
 ---□--- Input Volt. 24V  
 ---○--- Input Volt. 36V



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

2. Values

Load Current [A]	Input Current [A]		
	Input Volt. 20[V]	Input Volt. 24[V]	Input Volt. 36[V]
0.0	0.153	0.142	0.131
2.0	3.602	3.035	2.076
4.0	7.116	5.964	4.058
6.0	10.522	8.903	5.980
8.0	14.220	11.777	7.981
10.0	17.881	14.912	10.025
11.0	19.879	16.518	11.063
12.1	21.884	18.085	12.124
—	—	—	—
—	—	—	—
—	—	—	—

# COSEL

Model		CBS3502432																																																				
Item		Input Power (by Load Current)																																																				
Object																																																						
1.Graph		2.Values																																																				
<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>20V</div><div>24V</div><div>36V</div></div></div> <div></div> <div>Note: Slanted line shows the range of the rated load current.</div>		<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. 36[V]</th></tr><tr><td>0.0</td><td>3.1</td><td>3.4</td><td>4.7</td></tr><tr><td>2.0</td><td>72.0</td><td>72.3</td><td>74.6</td></tr><tr><td>4.0</td><td>141.0</td><td>142.0</td><td>145.4</td></tr><tr><td>6.0</td><td>211.0</td><td>211.4</td><td>215.5</td></tr><tr><td>8.0</td><td>282.6</td><td>283.6</td><td>286.9</td></tr><tr><td>10.0</td><td>356.5</td><td>356.5</td><td>359.4</td></tr><tr><td>11.0</td><td>394.2</td><td>393.4</td><td>396.1</td></tr><tr><td>12.1</td><td>435.9</td><td>435.3</td><td>437.1</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]	Input Power [W]			Input Volt. 20[V]	Input Volt. 24[V]	Input Volt. 36[V]	0.0	3.1	3.4	4.7	2.0	72.0	72.3	74.6	4.0	141.0	142.0	145.4	6.0	211.0	211.4	215.5	8.0	282.6	283.6	286.9	10.0	356.5	356.5	359.4	11.0	394.2	393.4	396.1	12.1	435.9	435.3	437.1	—	—	—	—	—	—	—	—	—	—	—	—
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Model		CBS3502432	
Item		Efficiency (by Input Voltage)	
Object			

1.Graph

---

□

---

Load 50%

---

△

---

Load 100%

Efficiency [%]

100

96

92

88

84

80

76

72

10

20

30

40

50

Input Voltage [V]

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

2.Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
19	90.7	89.1
20	90.6	89.2
24	90.1	89.2
30	89.3	89.0
36	88.6	88.6
40	88.0	88.3
—	-	-
—	-	-
—	-	-

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**COSEL**

Model		CBS3502432																																																				
Item		Efficiency (by Load Current)																																																				
Object																																																						
1.Graph		2.Values																																																				
<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>20V</div><div>24V</div><div>36V</div></div></div> <div><div><div>100</div><div>92</div><div>84</div><div>76</div><div>68</div><div>60</div><div>52</div><div>44</div></div><div><div>Efficiency [%]</div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div>0</div><div>4</div><div>8</div><div>12</div></div><div><div>Load Current [A]</div><div></div><div></div><div></div></div></div> <div><div>Note: Slanted line shows the range of the rated load current.</div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Efficiency [%]</th></tr><tr><th>Input Volt. 20[V]</th><th>Input Volt. 24[V]</th><th>Input Volt. 36[V]</th></tr><tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>2.0</td><td>88.3</td><td>87.8</td><td>85.1</td></tr><tr><td>4.0</td><td>90.4</td><td>89.8</td><td>87.7</td></tr><tr><td>6.0</td><td>90.7</td><td>90.6</td><td>88.9</td></tr><tr><td>8.0</td><td>90.4</td><td>90.1</td><td>89.0</td></tr><tr><td>10.0</td><td>89.6</td><td>89.6</td><td>88.8</td></tr><tr><td>11.0</td><td>89.1</td><td>89.3</td><td>88.7</td></tr><tr><td>12.1</td><td>88.6</td><td>88.8</td><td>88.4</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. 20[V]	Input Volt. 24[V]	Input Volt. 36[V]	0.0	-	-	-	2.0	88.3	87.8	85.1	4.0	90.4	89.8	87.7	6.0	90.7	90.6	88.9	8.0	90.4	90.1	89.0	10.0	89.6	89.6	88.8	11.0	89.1	89.3	88.7	12.1	88.6	88.8	88.4	—	-	-	-	—	-	-	-	—	-	-	-
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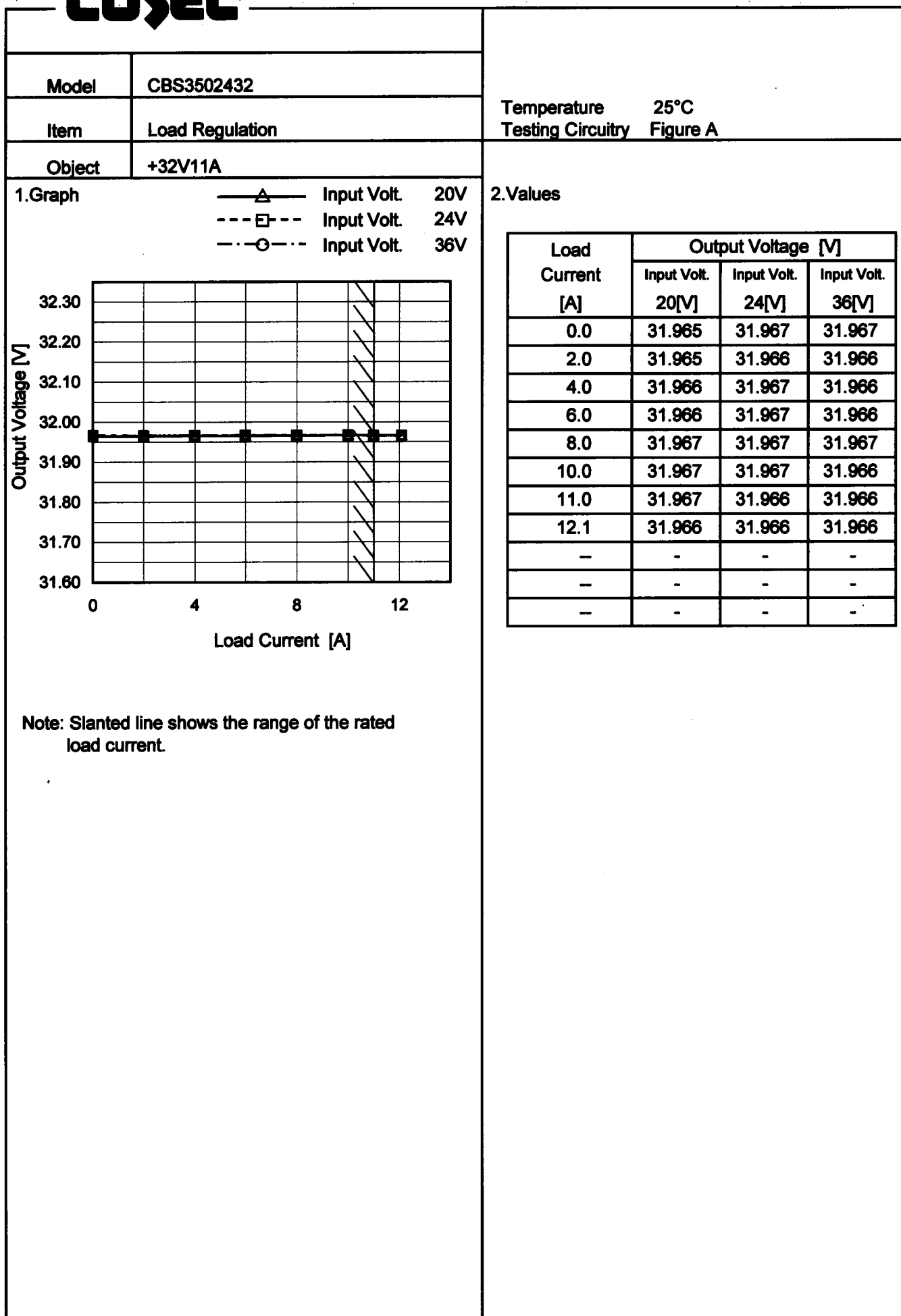
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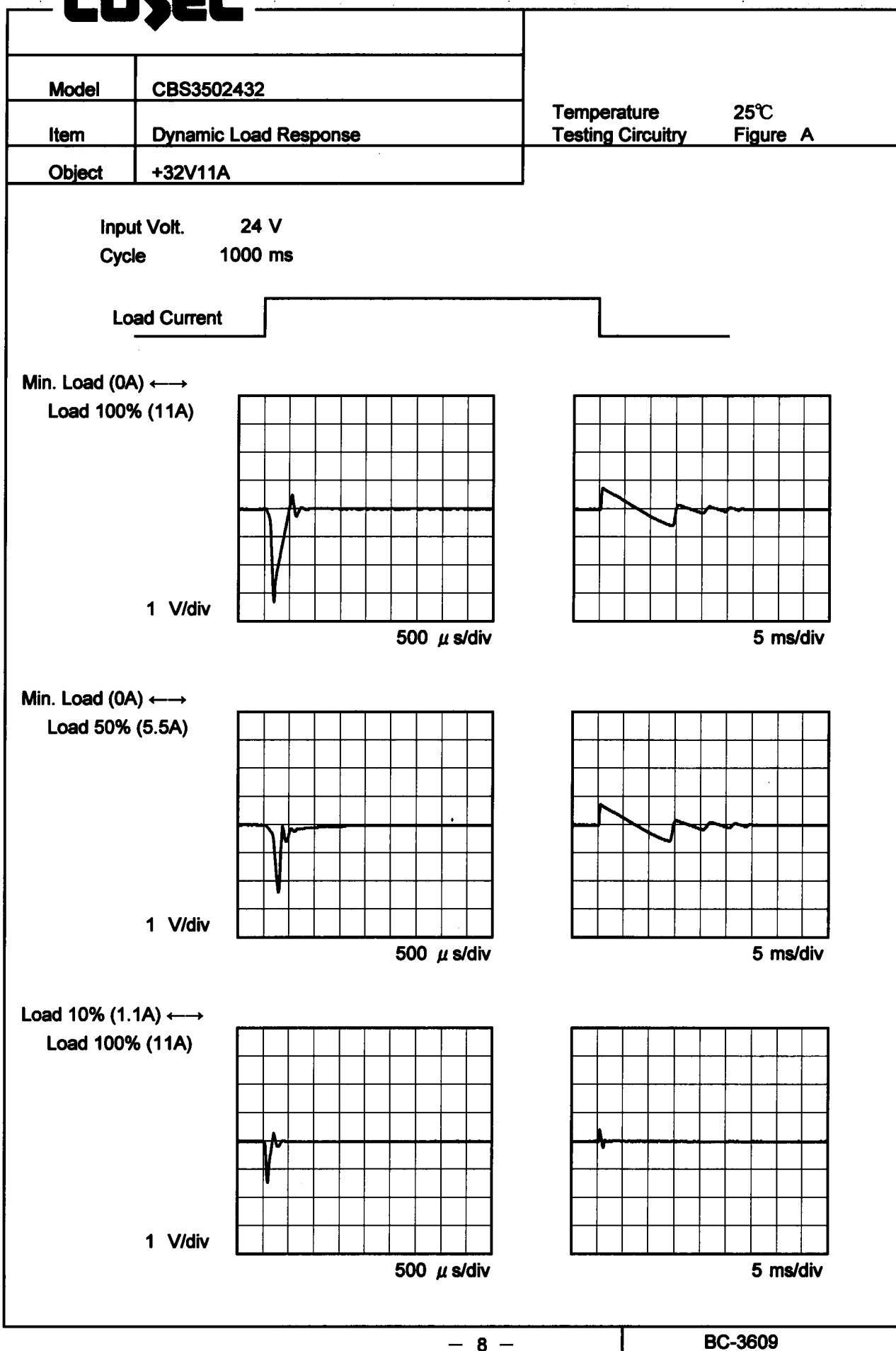
BC-3609

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Model		CBS3502432		Temperature		25°C																															
Item		Line Regulation		Testing Circuitry		Figure A																															
Object		+32V11A																																			
1.Graph				2.Values																																	
<div><div><div>---□---</div><div>—△—</div></div><div>Load 50%</div><div>Load 100%</div></div> <table><thead><tr><th>Input Voltage [V]</th><th>Output Voltage [V] Load 50%</th><th>Output Voltage [V] Load 100%</th></tr></thead><tbody><tr><td>19</td><td>31.972</td><td>31.970</td></tr><tr><td>20</td><td>31.972</td><td>31.969</td></tr><tr><td>24</td><td>31.972</td><td>31.968</td></tr><tr><td>30</td><td>31.972</td><td>31.967</td></tr><tr><td>36</td><td>31.971</td><td>31.967</td></tr><tr><td>40</td><td>31.971</td><td>31.967</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></tbody></table> <p>Note: Slanted line shows the range of the rated input voltage.</p>				Input Voltage [V]	Output Voltage [V] Load 50%	Output Voltage [V] Load 100%	19	31.972	31.970	20	31.972	31.969	24	31.972	31.968	30	31.972	31.967	36	31.971	31.967	40	31.971	31.967	—	-	-	—	-	-	—	-	-				
Input Voltage [V]	Output Voltage [V] Load 50%	Output Voltage [V] Load 100%																																			
19	31.972	31.970																																			
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24	31.972	31.968																																			
30	31.972	31.967																																			
36	31.971	31.967																																			
40	31.971	31.967																																			
—	-	-																																			
—	-	-																																			
—	-	-																																			



**COSEL**

**COSEL**

**COSEL**

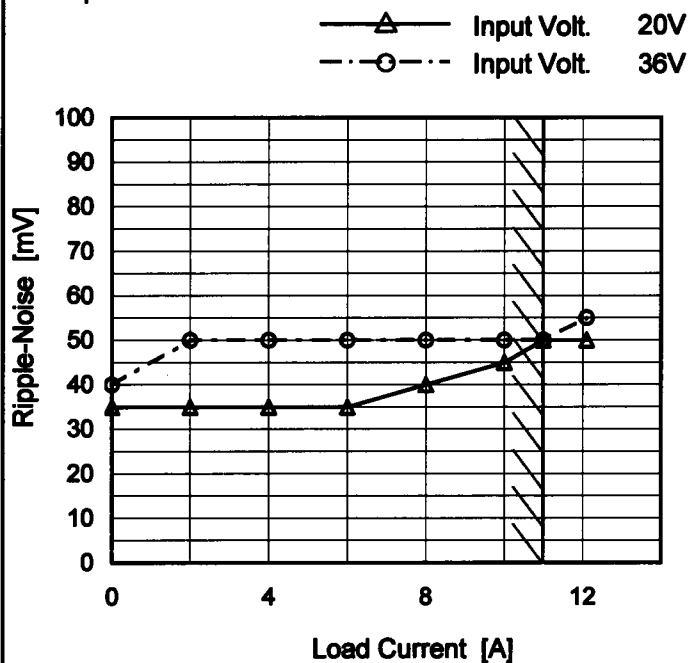
Model	CBS3502432																																								
Item	Ripple Voltage (by Load Current)	Temperature	25°C																																						
Object	+32V11A	Testing Circuitry	Figure A																																						
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<div><div><div>—△— Input Volt. 20V</div><div>- -○- - Input Volt. 36V</div></div><div>Ripple Voltage [mV]</div><div>Load Current [A]</div></div> <div><p>Measured by 100 MHz Oscilloscope.</p><p>Ripple Voltage is shown as p-p in the figure below.</p><p>Note: Slanted line shows the range of the rated load current.</p><div><div>Ripple [mVp-p]</div><div>Fig.Complex Ripple Wave Form</div></div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 20 [V]</th><th>Input Volt. 36 [V]</th></tr><tr><td>0.0</td><td>10</td><td>20</td></tr><tr><td>2.0</td><td>25</td><td>40</td></tr><tr><td>4.0</td><td>25</td><td>40</td></tr><tr><td>6.0</td><td>25</td><td>40</td></tr><tr><td>8.0</td><td>25</td><td>40</td></tr><tr><td>10.0</td><td>25</td><td>40</td></tr><tr><td>11.0</td><td>25</td><td>40</td></tr><tr><td>12.1</td><td>25</td><td>40</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. 20 [V]	Input Volt. 36 [V]	0.0	10	20	2.0	25	40	4.0	25	40	6.0	25	40	8.0	25	40	10.0	25	40	11.0	25	40	12.1	25	40	—	-	-	—	-	-	—	-	-
Load Current [A]	Ripple Voltage [mV]																																								
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# COSEL

Model	CBS3502432
Item	Ripple-Noise
Object	+32V11A

Temperature 25°C  
Testing Circuitry Figure A

## 1. Graph



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.

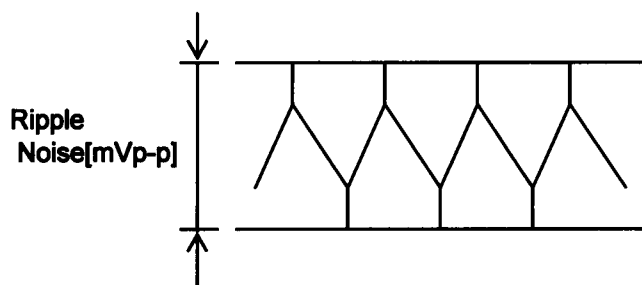


Fig.Complex Ripple Noise Wave Form

## 2.Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 20 [V]	Input Volt. 36 [V]
0.0	35	40
2.0	35	50
4.0	35	50
6.0	35	50
8.0	40	50
10.0	45	50
11.0	50	50
12.1	50	55
—	-	-
—	-	-
—	-	-

# COSEL

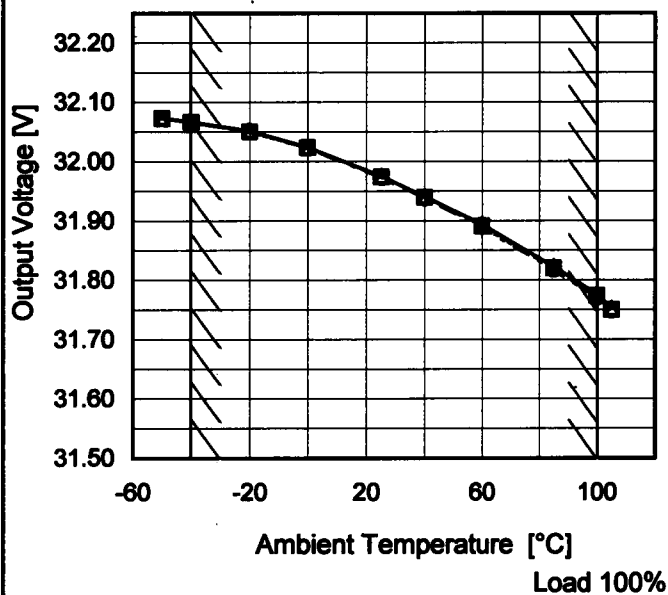
Model	CBS3502432																																								
Item	Ripple Voltage (by Ambient Temp.)	Testing Circuitry    Figure A																																							
Object	+32V11A																																								
1.Graph		2.Values																																							
<div><div>-----□-----    Load 50%</div><div>-----△-----    Load 100%</div></div> <p>Y-axis: Ripple Voltage [mV] X-axis: Ambient Temperature [°C] Input Volt.    24V</p>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>-50</td><td>60</td><td>65</td></tr><tr><td>-40</td><td>55</td><td>60</td></tr><tr><td>-20</td><td>50</td><td>50</td></tr><tr><td>0</td><td>45</td><td>45</td></tr><tr><td>25</td><td>40</td><td>40</td></tr><tr><td>40</td><td>35</td><td>40</td></tr><tr><td>60</td><td>35</td><td>40</td></tr><tr><td>85</td><td>30</td><td>35</td></tr><tr><td>100</td><td>30</td><td>35</td></tr><tr><td>105</td><td>30</td><td>35</td></tr><tr><td>—</td><td>-</td><td>-</td></tr></table>		Ambient Temperature [°C]	Ripple Voltage [mV]		Load 50%	Load 100%	-50	60	65	-40	55	60	-20	50	50	0	45	45	25	40	40	40	35	40	60	35	40	85	30	35	100	30	35	105	30	35	—	-	-
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85	30	35																																							
100	30	35																																							
105	30	35																																							
—	-	-																																							
Measured by 100 MHz Oscilloscope. Note: Slanted line shows the range of the rated ambient temperature.																																									

# COSEL

Model	CBS3502432
Item	Ambient Temperature Drift
Object	+32V11A

1. Graph

—△— Input Volt. 20V  
 ---□--- Input Volt. 24V  
 -·-○-·- Input Volt. 36V



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

Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 20[V]	Input Volt. 24[V]	Input Volt. 36[V]
-50	32.073	32.073	32.073
-40	32.067	32.067	32.067
-20	32.052	32.051	32.051
0	32.024	32.024	32.023
25	31.975	31.974	31.973
40	31.941	31.940	31.939
60	31.894	31.891	31.890
85	31.823	31.820	31.818
100	31.776	31.774	31.771
105	31.752	31.750	31.749
—	-	-	-

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		Testing Circuitry Figure A
Model	CBS3502432	
Item	Output Voltage Accuracy	
Object	+32V11A	

### 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 : 20 - 36V

Load Current : 0 - 11A

\* 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	-40	20	11	32.067	±149	±0.5
Minimum Voltage	100	36	11	31.770		

**COSEL**

Model	CBS3502432		
Item	Time Lapse Drift	Temperature	25°C
Object	+32V11A	Testing Circuitry	Figure A
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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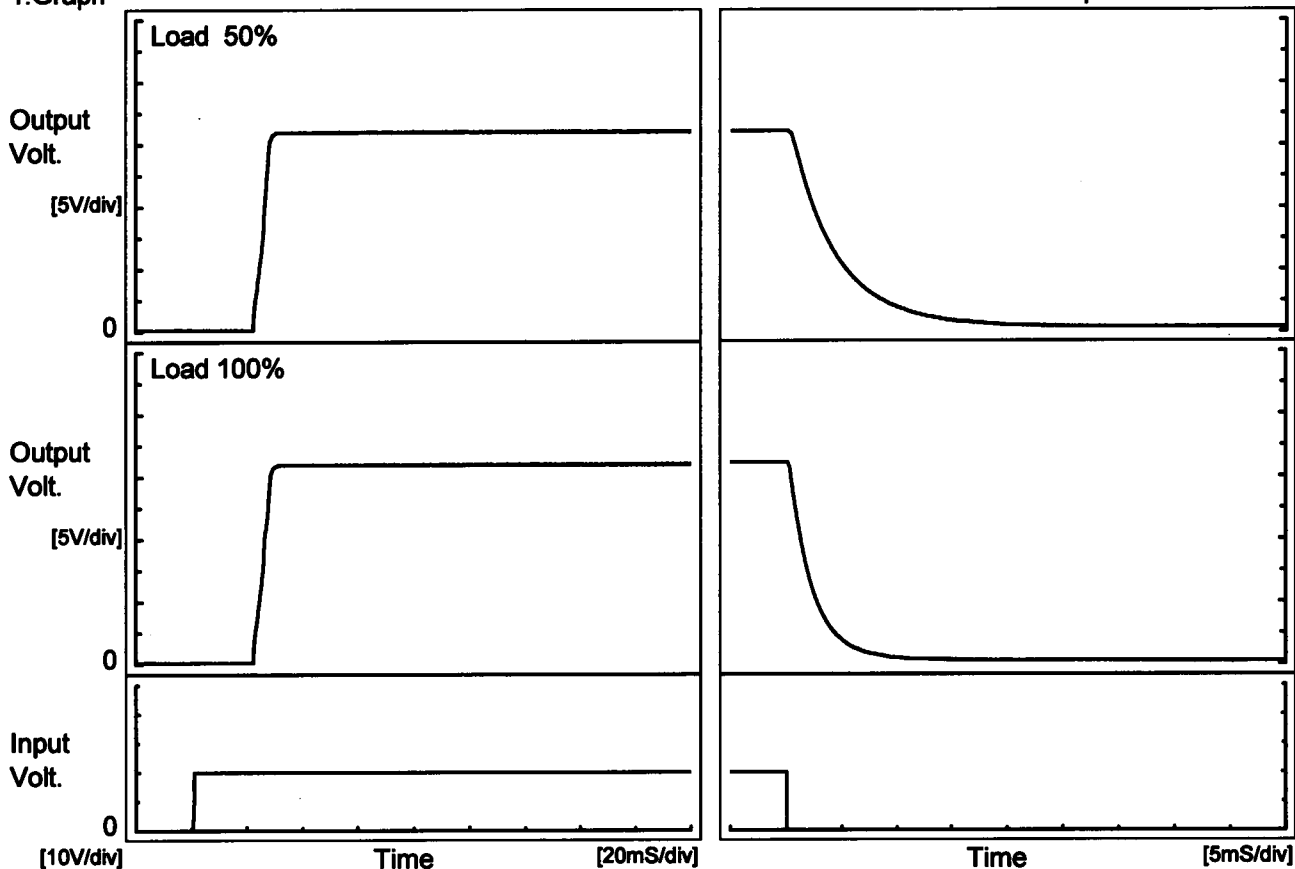


**COSEL**

<b>Model</b>		CBS3502432	Temperature 25°C Testing Circuitry Figure A
<b>Item</b>		Rise and Fall Time	
<b>Object</b>		+32V11A	

## 1. Graph

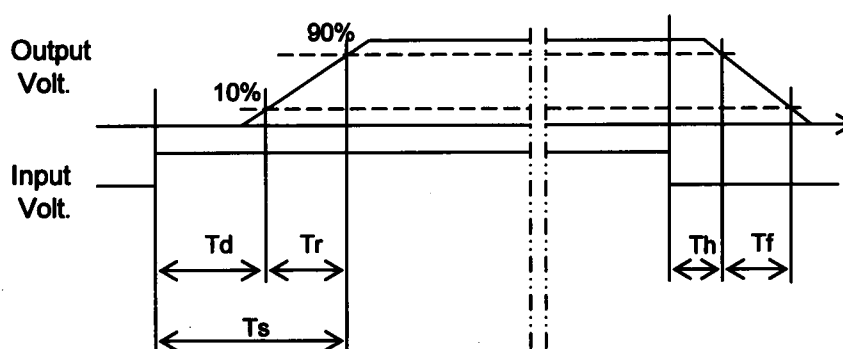
Input Volt. 20 V



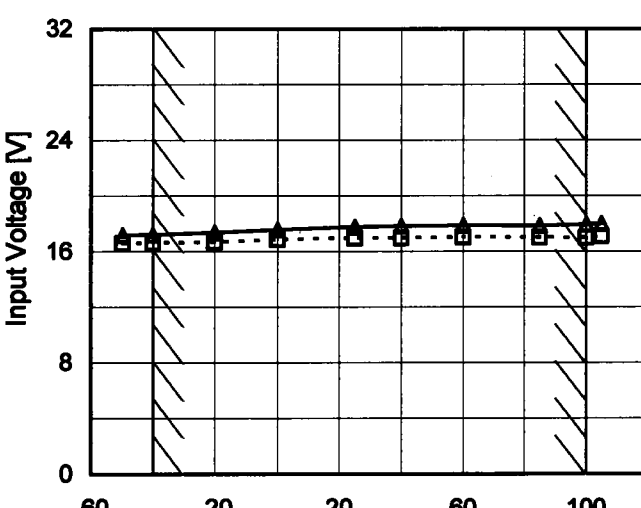
## 2. Values

[mS]

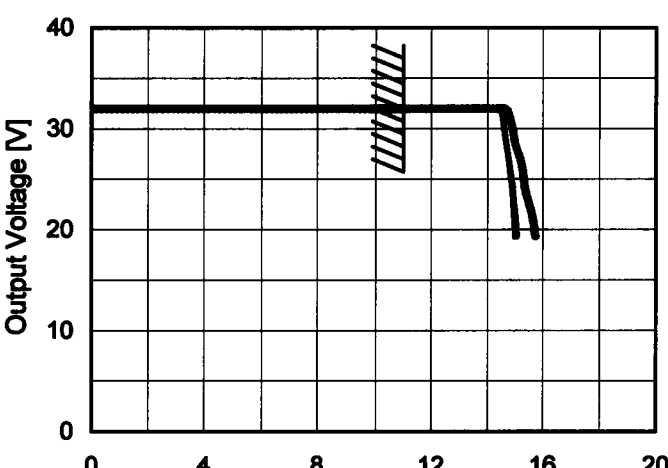
Load \ Time	Td	Tr	Ts	Th	Tf
50 %	22.6	5.2	27.8	0.8	9.9
100 %	22.6	5.5	28.1	0.4	4.9



**COSEL**

Model		CBS3502432																																							
Item		Minimum Input Voltage for Regulated Output Voltage																																							
Object		+32V11A																																							
1.Graph		2.Values																																							
<div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div>  <div>Input Voltage [V]</div> <div>Ambient Temperature [°C]</div>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Input Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>-50</td><td>16.6</td><td>17.2</td></tr><tr><td>-40</td><td>16.7</td><td>17.3</td></tr><tr><td>-20</td><td>16.7</td><td>17.4</td></tr><tr><td>0</td><td>16.9</td><td>17.6</td></tr><tr><td>25</td><td>17.0</td><td>17.8</td></tr><tr><td>40</td><td>17.0</td><td>17.9</td></tr><tr><td>60</td><td>17.1</td><td>17.9</td></tr><tr><td>85</td><td>17.1</td><td>17.9</td></tr><tr><td>100</td><td>17.0</td><td>18.0</td></tr><tr><td>105</td><td>17.1</td><td>18.0</td></tr><tr><td>—</td><td>-</td><td>-</td></tr></table>		Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-50	16.6	17.2	-40	16.7	17.3	-20	16.7	17.4	0	16.9	17.6	25	17.0	17.8	40	17.0	17.9	60	17.1	17.9	85	17.1	17.9	100	17.0	18.0	105	17.1	18.0	—	-	-
Ambient Temperature [°C]	Input Voltage [V]																																								
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-40	16.7	17.3																																							
-20	16.7	17.4																																							
0	16.9	17.6																																							
25	17.0	17.8																																							
40	17.0	17.9																																							
60	17.1	17.9																																							
85	17.1	17.9																																							
100	17.0	18.0																																							
105	17.1	18.0																																							
—	-	-																																							
Note: Slanted line shows the range of the rated ambient temperature.																																									

**COSEL**

Model		CBS3502432	
Item		Overcurrent Protection	
Object		+32V11A	
1.Graph			
		—————	Input Volt. 20V
		—————	Input Volt. 24V
		—————	Input Volt. 36V
			
Note: Slanted line shows the range of the rated load current.			
Intermittent operation occurs when the output voltage is from 19.2V to 0V.			

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. 36[V]
32.0	11.09	11.09	11.09
30.4	14.65	14.58	14.90
28.8	14.69	14.68	14.98
25.6	14.80	14.85	15.29
22.4	14.91	14.99	15.53
19.2	14.98	15.08	15.79
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

**COSEL**

Model		CBS3502432		Testing Circuitry    Figure A																																																		
Item		Overvoltage Protection																																																				
Object		+32V11A																																																				
1.Graph		<div><div>—△—</div>Input Volt. 20V</div> <div><div>---□---</div>Input Volt. 24V</div> <div><div>-○-</div>Input Volt. 36V</div>		2.Values																																																		
<div><div>Operating Point [V]</div><div><div>Ambient Temperature [°C]</div></div></div>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="3">Operating Point [V]</th></tr><tr><th>Input Volt. 20[V]</th><th>Input Volt. 24[V]</th><th>Input Volt. 36[V]</th></tr><tr><td>-50</td><td>41.37</td><td>41.37</td><td>41.37</td></tr><tr><td>-40</td><td>41.37</td><td>41.37</td><td>41.37</td></tr><tr><td>-20</td><td>41.37</td><td>41.37</td><td>41.37</td></tr><tr><td>0</td><td>41.48</td><td>41.48</td><td>41.48</td></tr><tr><td>25</td><td>41.48</td><td>41.48</td><td>41.48</td></tr><tr><td>60</td><td>41.48</td><td>41.48</td><td>41.48</td></tr><tr><td>70</td><td>41.36</td><td>41.36</td><td>41.36</td></tr><tr><td>85</td><td>41.36</td><td>41.36</td><td>41.36</td></tr><tr><td>100</td><td>41.36</td><td>41.36</td><td>41.37</td></tr><tr><td>105</td><td>41.36</td><td>41.36</td><td>41.37</td></tr><tr><td>—</td><td>-</td><td>-</td><td>-</td></tr></table>		Ambient Temperature [°C]	Operating Point [V]			Input Volt. 20[V]	Input Volt. 24[V]	Input Volt. 36[V]	-50	41.37	41.37	41.37	-40	41.37	41.37	41.37	-20	41.37	41.37	41.37	0	41.48	41.48	41.48	25	41.48	41.48	41.48	60	41.48	41.48	41.48	70	41.36	41.36	41.36	85	41.36	41.36	41.36	100	41.36	41.36	41.37	105	41.36	41.36	41.37	—	-	-	-
Ambient Temperature [°C]	Operating Point [V]																																																					
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# COSEL

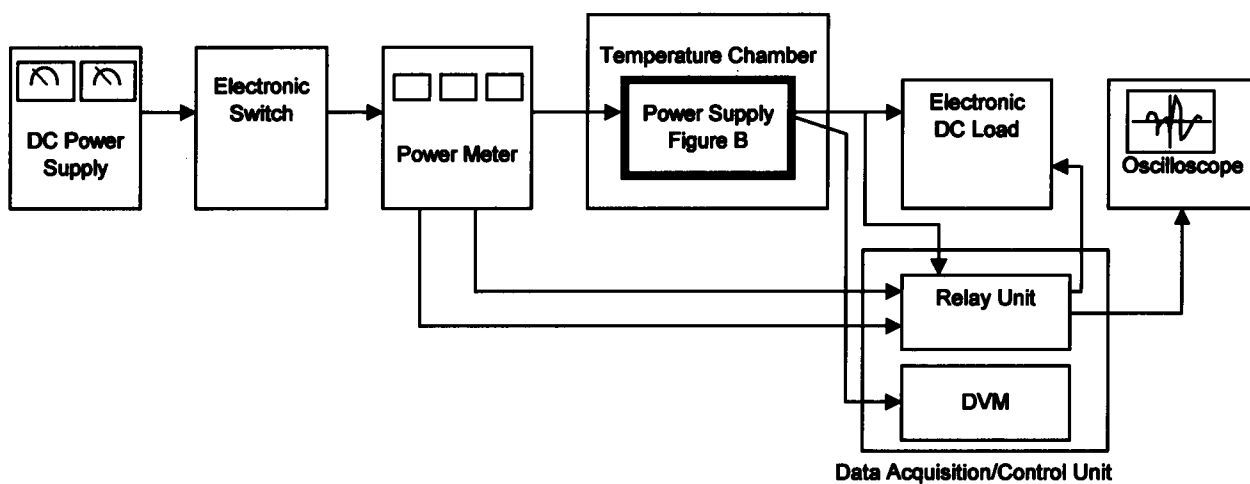


Figure A

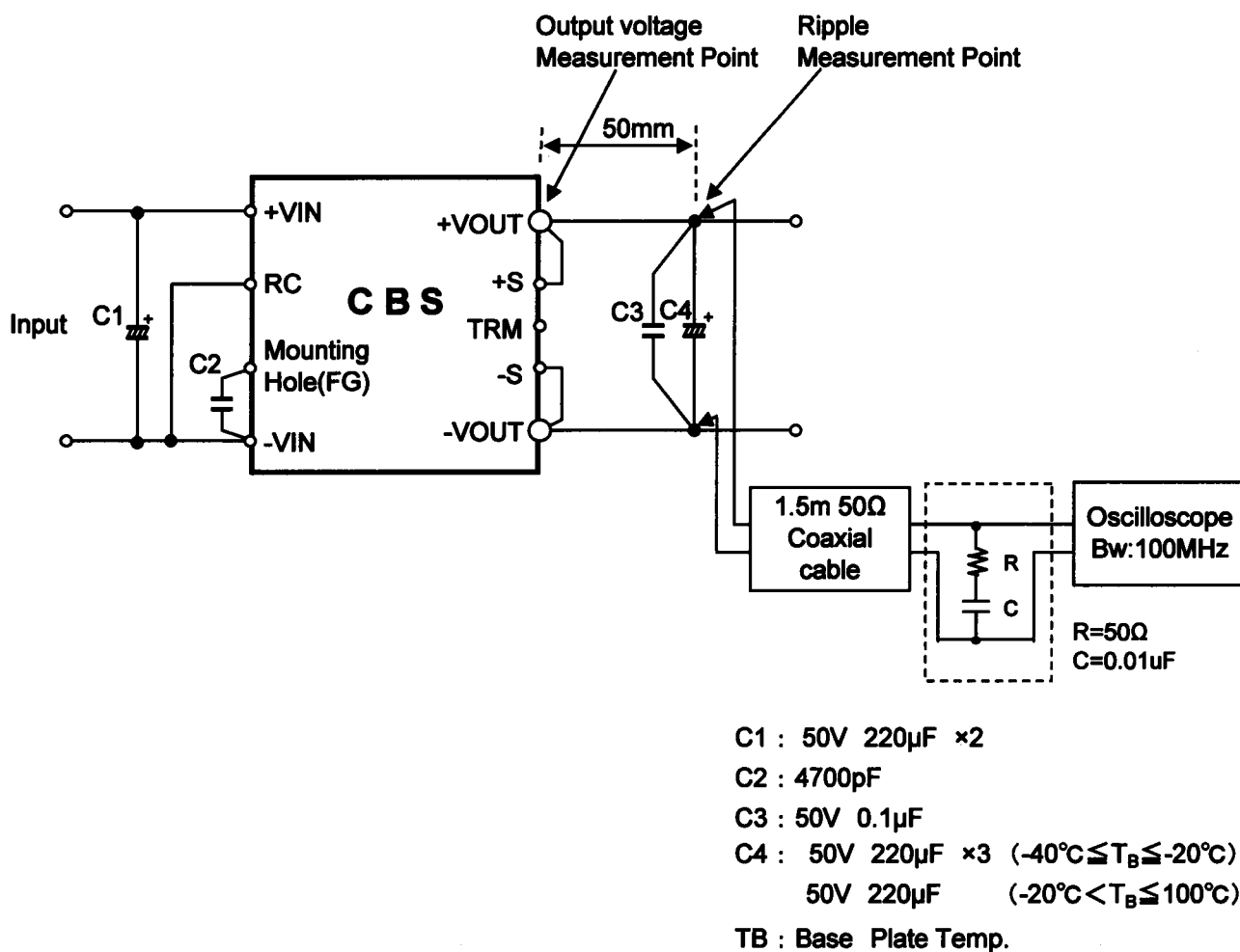


Figure B