

TEST DATA OF GT3-12

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.

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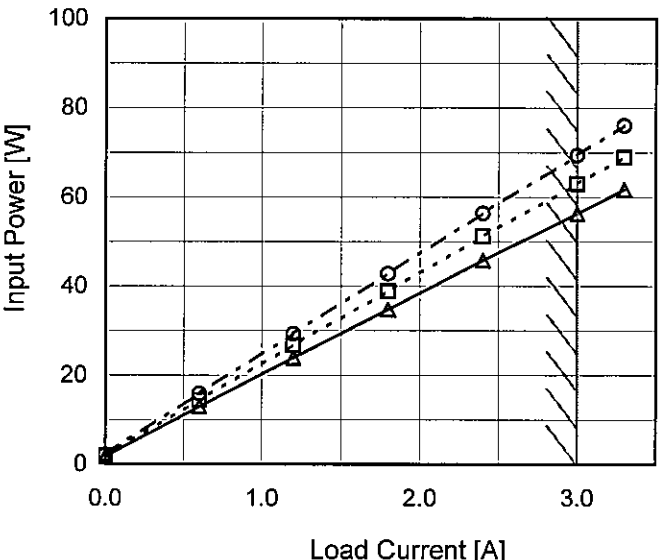
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Model		GT3-12		Temperature 25°C																																																				
Item		Input Current (by Load Current)		Testing Circuitry Figure A																																																				
Object		_____																																																						
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>90V</div><div>100V</div><div>110V</div></div></div> <div><p>Input Current [A]</p><p>Load Current [A]</p></div> <div>Note: Slanted line shows the range of the rated load current.</div>		2.Values																																																				
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Model	GT3-12																																
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Model

GT3-12

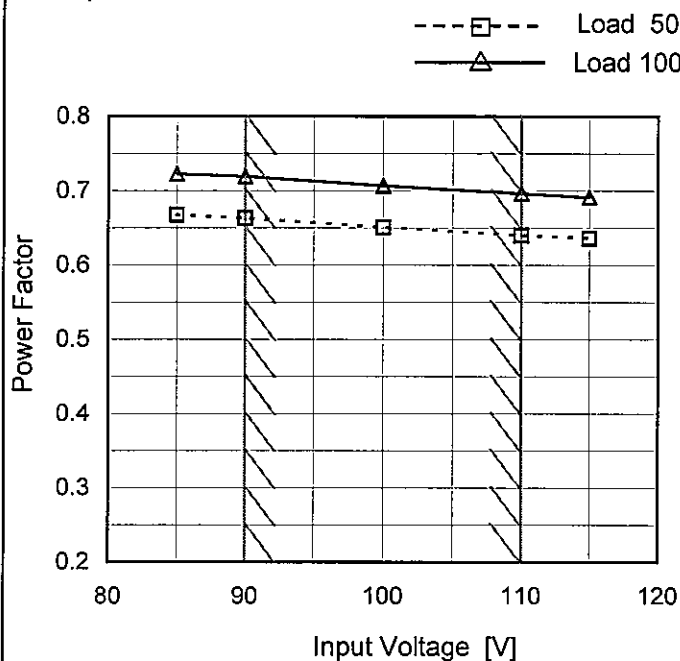
Item

Power Factor (by Input Voltage)

Object

Temperature
Testing Circuitry25°C
Figure A

1. Graph



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

2. Values

Input Voltage [V]	Power Factor	
	Load 50%	Load 100%
85	0.667	0.723
90	0.663	0.719
100	0.651	0.707
110	0.640	0.696
115	0.636	0.691
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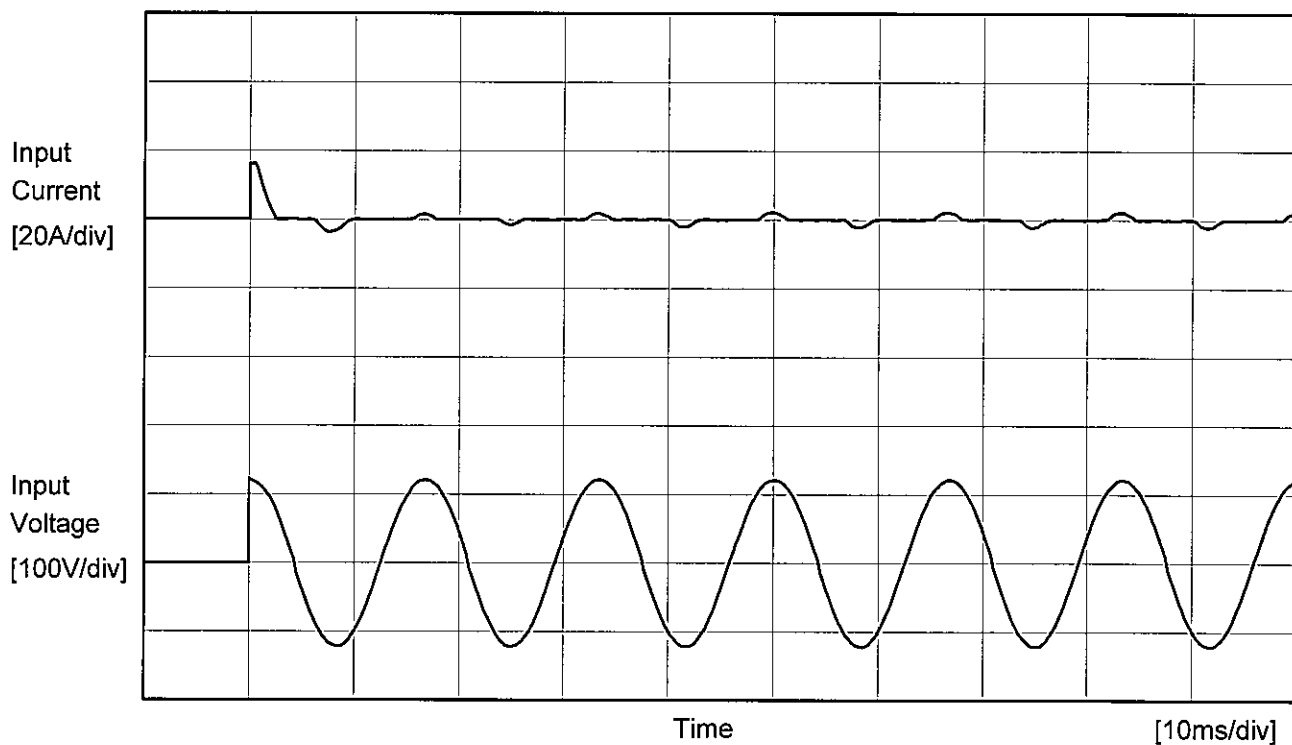
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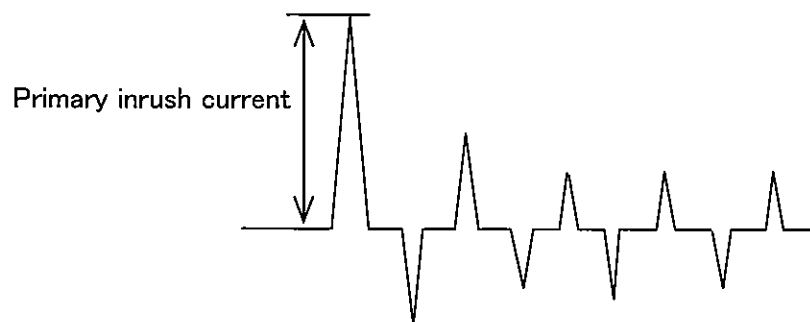
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Model	GT3-12	Temperature 25°C Testing Circuitry Figure A	
Item	Inrush Current		
Object			



Input Voltage 100 V
Frequency 60 Hz
Load 100 %

Primary inrush current 16.4 A



Model	GT3-12																																
Item	Line Regulation	Temperature	25°C																														
Object	+12V3A	Testing Circuitry	Figure A																														
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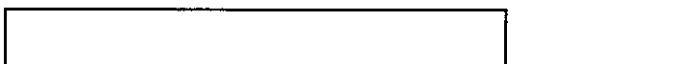
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Model	GT3-12	Temperature Testing Circuitry	25°C Figure A
Item	Dynamic Load Response		
Object	+12V3A		

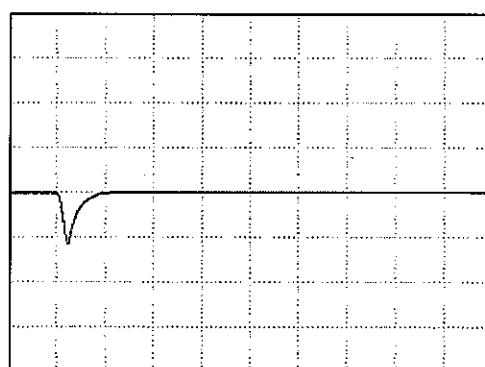
Input Volt. 100 V
Cycle 1000 ms

Load Current

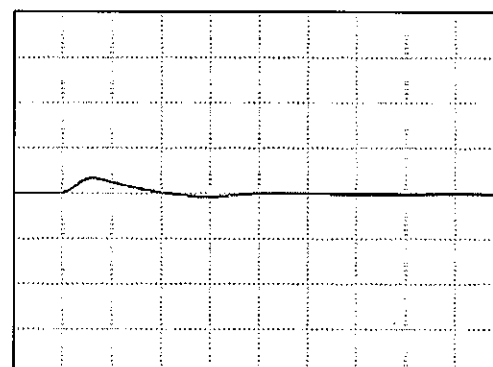


Min. Load (0A) \longleftrightarrow
Load 100% (3A)

100 mV/div



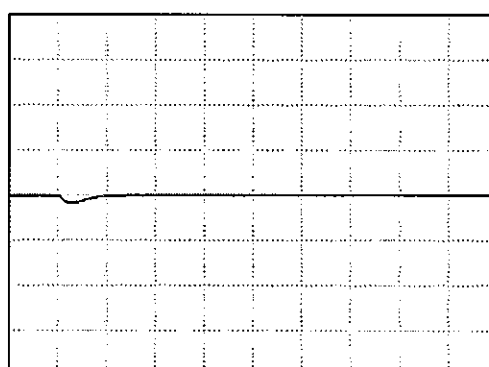
100 μs/div



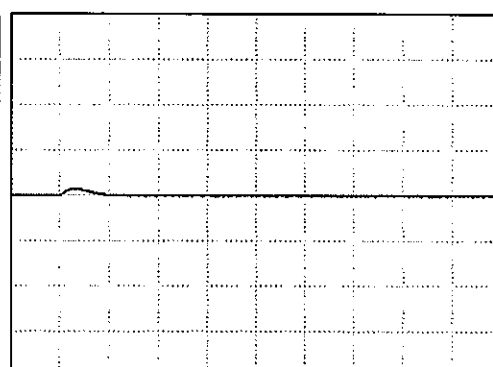
100 μs/div

Load 50% (1.5A) \longleftrightarrow
Load 100% (3A)

100 mV/div



100 μs/div

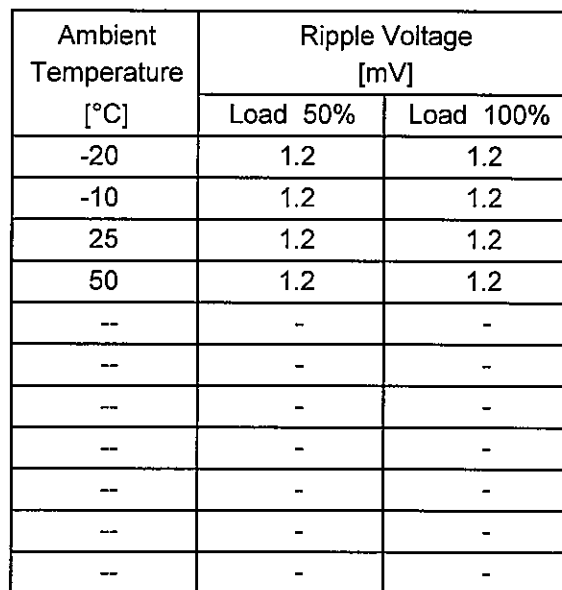


100 μs/div

Model	GT3-12																																											
Item	Ripple Voltage (by Load Current)	Temperature	25°C																																									
Object	+12V3A	Testing Circuitry	Figure A																																									
1.Graph		2.Values																																										
<div><div><div>—△—</div><div>Input Volt. 90V</div></div><div><div>- - ○ - -</div><div>Input Volt. 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>0.0</td><td>1.2</td><td>1.2</td></tr><tr><td>1.0</td><td>1.2</td><td>1.2</td></tr><tr><td>3.0</td><td>1.2</td><td>1.2</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]	0.0	1.2	1.2	1.0	1.2	1.2	3.0	1.2	1.2	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
Load Current [A]	Ripple Voltage [mV]																																											
	Input Volt. 90 [V]	Input Volt. 110 [V]																																										
0.0	1.2	1.2																																										
1.0	1.2	1.2																																										
3.0	1.2	1.2																																										
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Testing Circuitry Figure A

2.Values



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

BC-10196

COSEL

		Testing Circuitry Figure A
Model	GT3-12	
Item	Output Voltage Accuracy	
Object	+12V3A	

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 - 3A

* 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	20	110	0	12.027	±4	±0.1
Minimum Voltage	-10	90	3	12.019		



Model

GT3-12

Item

Time Lapse Drift

Object

+12V3A

Temperature

25°C

Testing Circuitry

Figure A

1.Graph

Output Voltage [V]

12.30

12.20

12.10

12.00

11.90

11.80

11.70

11.60

0

2

4

6

8

10

Time [H]

Input Volt. 100V

Load 100%

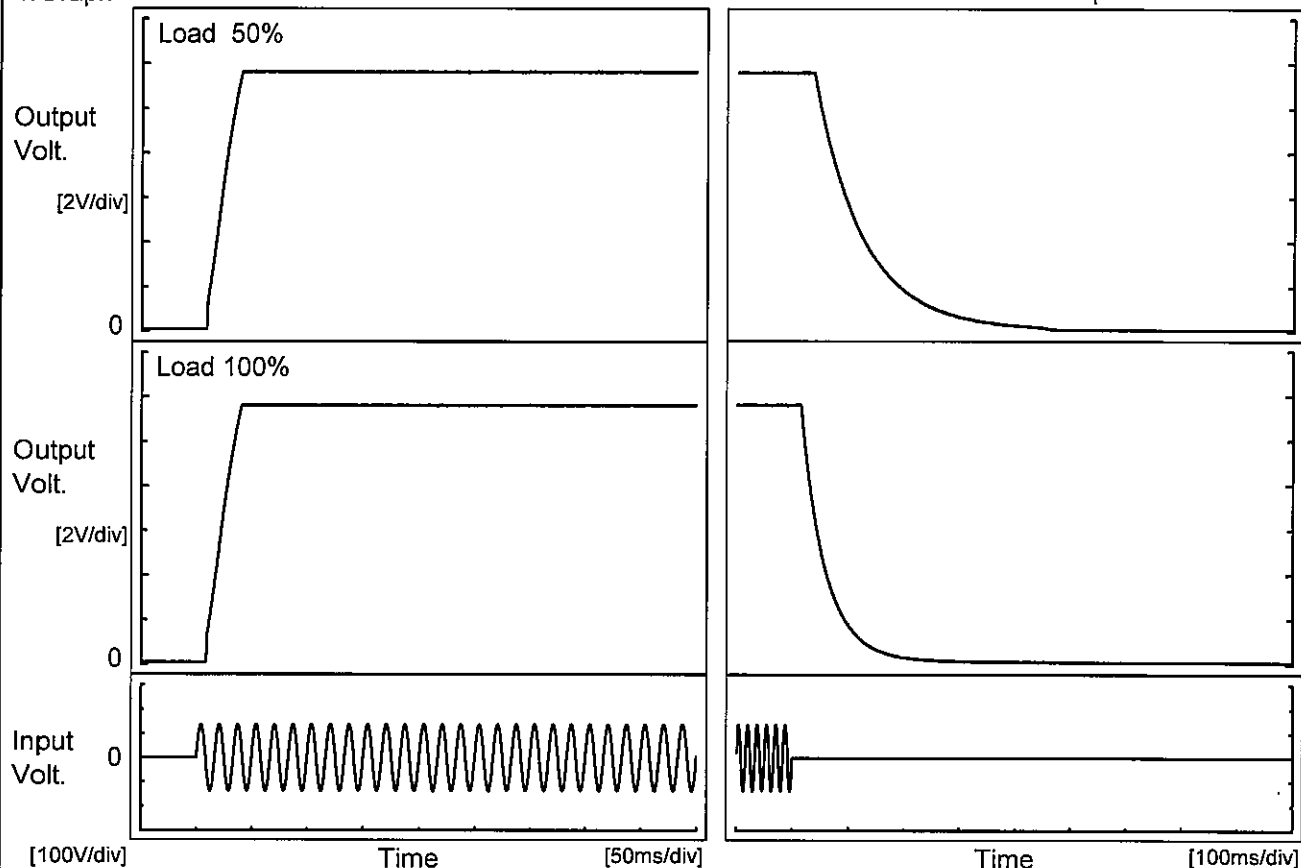
2.Values

Time since start [H]	Output Voltage [V]
0.0	12.029
0.5	12.027
1.0	12.027
2.0	12.027
3.0	12.027
4.0	12.027
5.0	12.027
6.0	12.027
7.0	12.027
8.0	12.027

COSEL

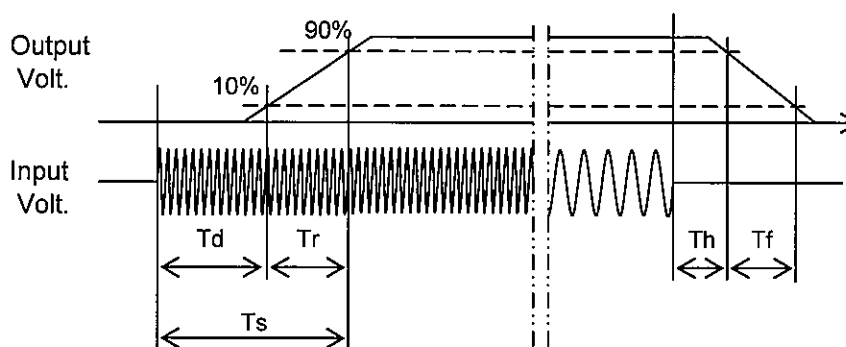
Model	GT3-12	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+12V3A		

1. Graph



2. Values

Load	Time	Td	Tr	Ts	Th	Tf
50 %		9.8	27.5	37.3	42.0	191.5
100 %		9.8	27.5	37.3	17.5	98.0



COSEL

Model

GT3-12

Item

Hold-Up Time

Object

+12V3A

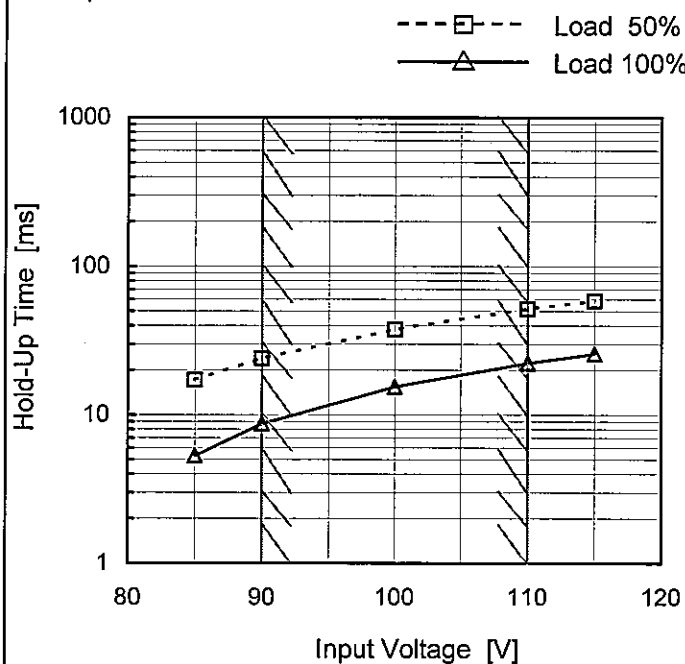
Temperature

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	17	5
90	24	9
100	38	16
110	52	22
115	59	26
--	-	-
--	-	-
--	-	-
--	-	-

COSEL

Model

GT3-12

Item

Instantaneous Interruption Compensation

Object

+12V3A

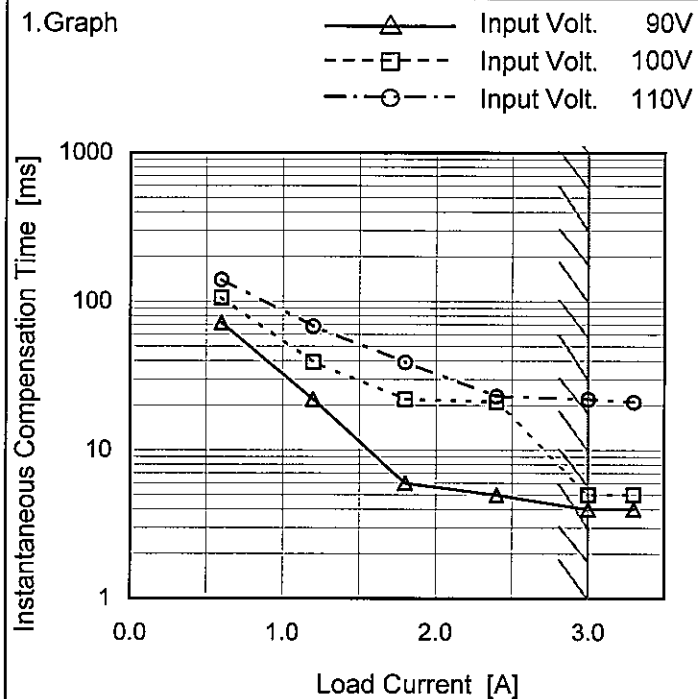
Temperature

25°C

Testing Circuitry

Figure A

1. Graph



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]
0.0	-	-	-
0.6	72	106	140
1.2	22	39	68
1.8	6	22	39
2.4	5	21	23
3.0	4	5	22
3.3	4	5	21
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-

COSEL

Model

GT3-12

Item

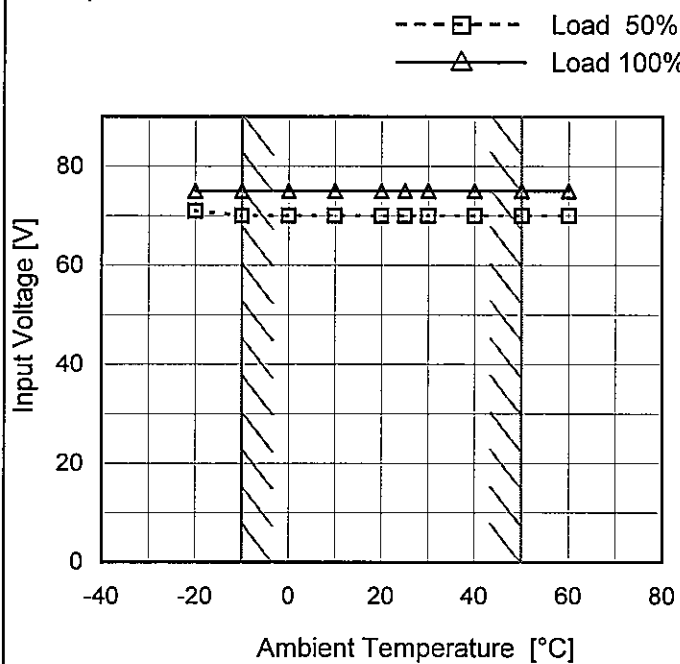
Minimum Input Voltage
for Regulated Output Voltage

Object

+12V3A

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	71	75
-10	70	75
0	70	75
10	70	75
20	70	75
25	70	75
30	70	75
40	70	75
50	70	75
60	70	75
--	-	-

COSEL

Model

GT3-12

Item

Overcurrent Protection

Object

+12V3A

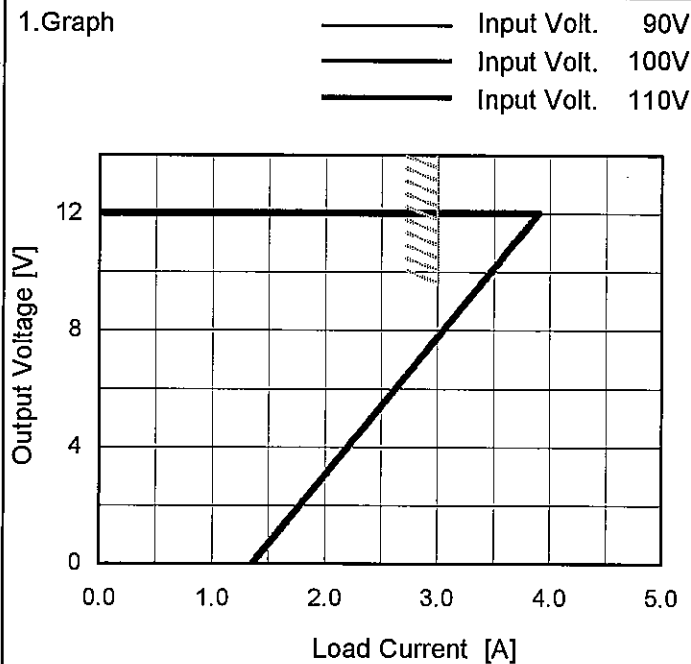
Temperature

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]
12.0	3.90	3.90	3.90
11.4	3.78	3.78	3.78
10.8	3.65	3.65	3.65
9.6	3.40	3.39	3.40
8.4	3.15	3.15	3.15
7.2	2.90	2.90	2.90
6.0	2.63	2.63	2.63
4.8	2.38	2.38	2.38
3.6	2.12	2.12	2.12
2.4	1.87	1.87	1.87
1.2	1.61	1.61	1.61
0.0	1.39	1.39	1.39

COSEL

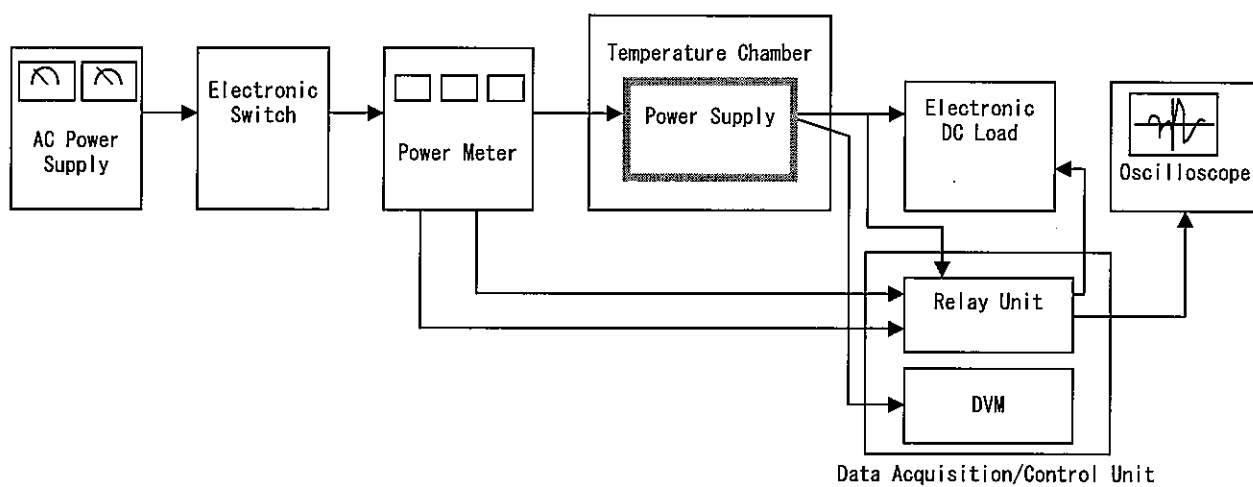


Figure A