

TEST DATA OF G2-12

Regulated DC Power Supply
July 23, 2010

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COSEL CO.,LTD.

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Model		G2-12																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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Model		G2-12	
Item		Input Power (by Load Current)	
Object			

1.Graph

—△—

Input Volt.

90V

---□---

Input Volt.

100V

---○---

Input Volt.

110V

Input Power [W]

50

40

30

20

10

0

0.0

0.4

0.8

1.2

0.0

0.4

0.8

1.2

Load Current [A]

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

2.Values

Load Current [A]	Input Power [W]		
	Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]
0.00	0.68	0.78	0.89
0.20	4.67	5.20	5.74
0.40	8.57	9.58	10.59
0.60	12.44	13.91	15.33
0.80	16.32	18.21	20.08
1.00	20.08	22.47	24.72
1.20	23.93	26.70	29.50
1.32	26.17	29.16	32.20
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--	-	-	-
--	-	-	-

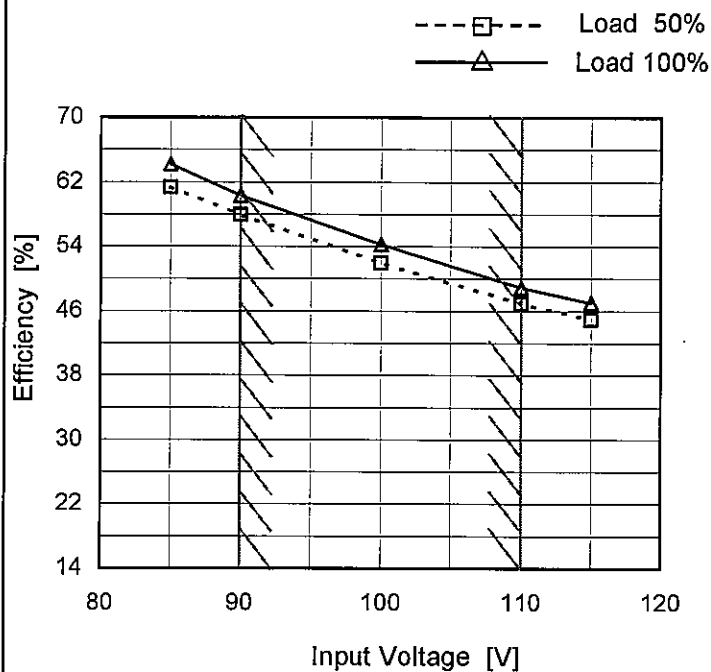
Model G2-12

Item Efficiency (by Input Voltage)

Object

Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
85	61.3	64.2
90	57.9	60.3
100	51.9	54.3
110	46.9	48.9
115	45.0	47.0
--	-	-
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COSEL

Model		G2-12	
Item		Efficiency (by Load Current)	
Object			
1.Graph		<div><div><div>—△—</div>Input Volt. 90V</div><div><div>---□---</div>Input Volt. 100V</div><div><div>-○-</div>Input Volt. 110V</div></div> <p>Efficiency [%]</p> <p>Load Current [A]</p>	
Note: Slanted line shows the range of the rated load current.			

Temperature 25°C			
Testing Circuitry Figure A			
2.Values			
Load Current [A]	Efficiency [%]		
	Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]
0.00	-	-	-
0.20	51.4	46.2	41.8
0.40	56.1	50.2	45.4
0.60	58.0	51.8	47.0
0.80	58.9	52.8	47.9
1.00	59.9	53.5	48.6
1.20	60.3	54.1	48.9
1.32	60.7	54.4	49.3
--	-	-	-
--	-	-	-
--	-	-	-

Model	G2-12																																
Item	Power Factor (by Input Voltage)	Temperature	25°C																														
Object		Testing Circuitry	Figure A																														
1.Graph		2.Values																															
<div><div><div>---□---</div><div>Load 50%</div></div><div><div>---△---</div><div>Load 100%</div></div></div> <table><thead><tr><th>Input Voltage [V]</th><th>Load 50%</th><th>Load 100%</th></tr></thead><tbody><tr><td>85</td><td>0.715</td><td>0.780</td></tr><tr><td>90</td><td>0.709</td><td>0.775</td></tr><tr><td>100</td><td>0.697</td><td>0.762</td></tr><tr><td>110</td><td>0.687</td><td>0.754</td></tr><tr><td>115</td><td>0.682</td><td>0.747</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></tbody></table>		Input Voltage [V]	Load 50%	Load 100%	85	0.715	0.780	90	0.709	0.775	100	0.697	0.762	110	0.687	0.754	115	0.682	0.747	--	-	-	--	-	-	--	-	-	--	-	-		
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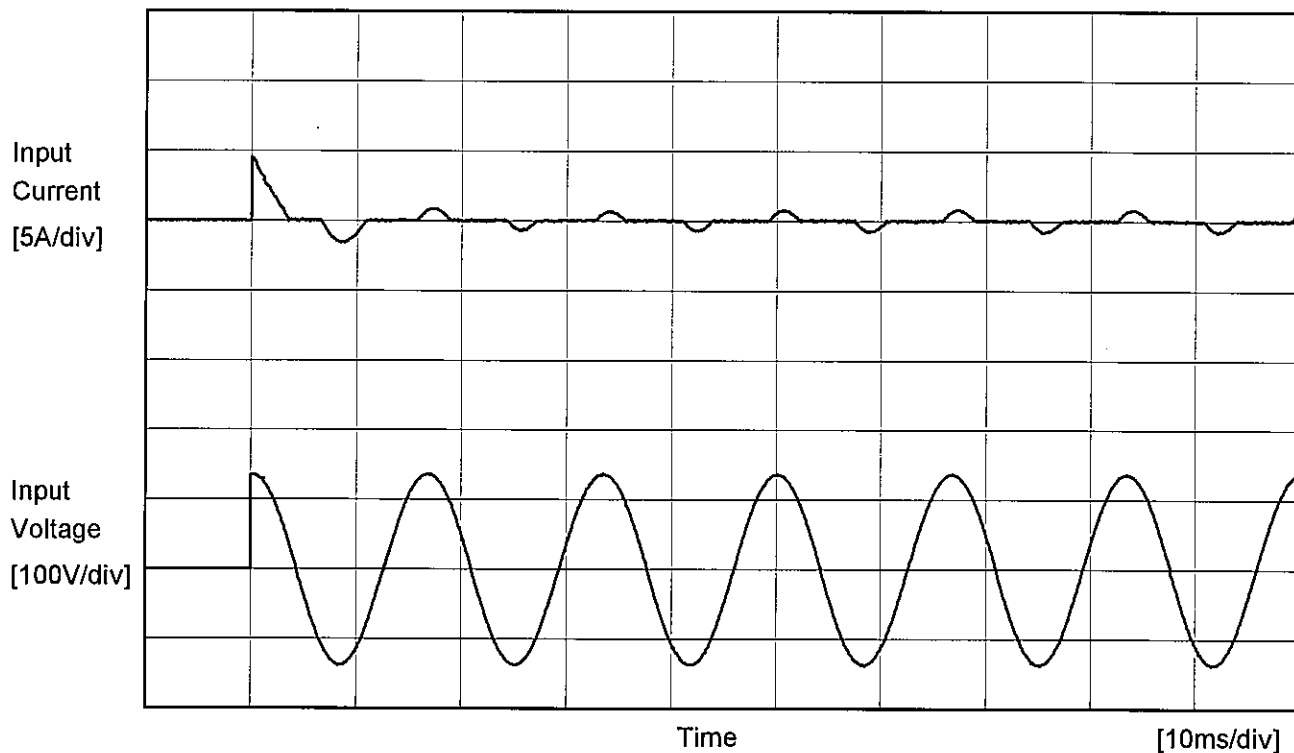
Model		G2-12		Temperature 25°C																																																		
Item		Power Factor (by Load Current)		Testing Circuitry Figure A																																																		
Object		_____																																																				
1.Graph		<div><div>—△—</div>Input Volt. 90V</div> <div><div>---□---</div>Input Volt. 100V</div> <div><div>-·-○-·-</div>Input Volt. 110V</div>		2.Values																																																		
<div><div><div>Power Factor</div><div>0.8</div><div>0.7</div><div>0.6</div><div>0.5</div><div>0.4</div><div>0.3</div><div>0.2</div></div><div><div>0.0</div><div>0.4</div><div>0.8</div><div>1.2</div></div><div><div>Load Current [A]</div></div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Power Factor</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>0.20</td><td>0.626</td><td>0.615</td><td>0.606</td></tr><tr><td>0.40</td><td>0.673</td><td>0.663</td><td>0.654</td></tr><tr><td>0.60</td><td>0.707</td><td>0.697</td><td>0.687</td></tr><tr><td>0.80</td><td>0.734</td><td>0.722</td><td>0.712</td></tr><tr><td>1.00</td><td>0.755</td><td>0.744</td><td>0.733</td></tr><tr><td>1.20</td><td>0.774</td><td>0.762</td><td>0.753</td></tr><tr><td>1.32</td><td>0.784</td><td>0.772</td><td>0.761</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]	Power Factor			Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]	0.00	-	-	-	0.20	0.626	0.615	0.606	0.40	0.673	0.663	0.654	0.60	0.707	0.697	0.687	0.80	0.734	0.722	0.712	1.00	0.755	0.744	0.733	1.20	0.774	0.762	0.753	1.32	0.784	0.772	0.761	--	-	-	-	--	-	-	-	--	-	-	-
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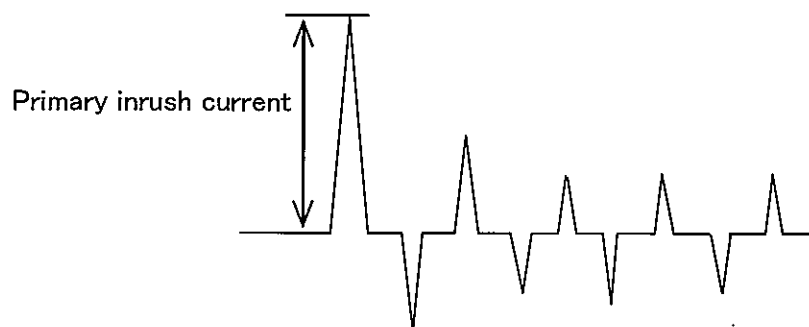
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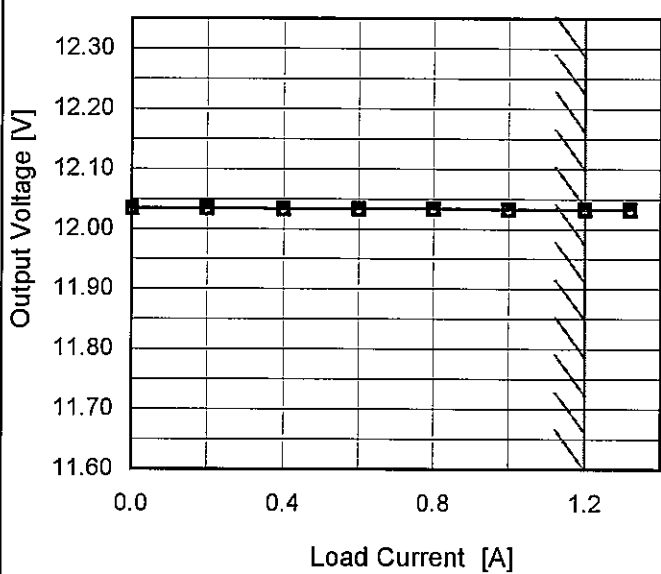
Model	G2-12	Temperature 25°C Testing Circuitry Figure A	
Item	Inrush Current		
Object			



Input Voltage	100 V
Frequency	60 Hz
Load	100 %
Primary inrush current	4.5 A



Model	G2-12																																		
Item	Line Regulation	Temperature	25°C																																
Object	+12V1.2A	Testing Circuitry	Figure A																																
1.Graph		2.Values																																	
<div><div><div>---□---</div><div>△---</div></div><div>Load 50%</div><div>Load 100%</div></div> <p>Note: Slanted line shows the range of the rated input voltage.</p>		<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Output Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>85</td><td>12.034</td><td>12.032</td></tr><tr><td>90</td><td>12.034</td><td>12.032</td></tr><tr><td>100</td><td>12.034</td><td>12.032</td></tr><tr><td>110</td><td>12.034</td><td>12.033</td></tr><tr><td>115</td><td>12.034</td><td>12.032</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>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	85	12.034	12.032	90	12.034	12.032	100	12.034	12.032	110	12.034	12.033	115	12.034	12.032	--	-	-	--	-	-	--	-	-	--	-	-
Input Voltage [V]	Output Voltage [V]																																		
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Model		G2-12																																																				
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Load Current [A]	Output Voltage [V]																																																					
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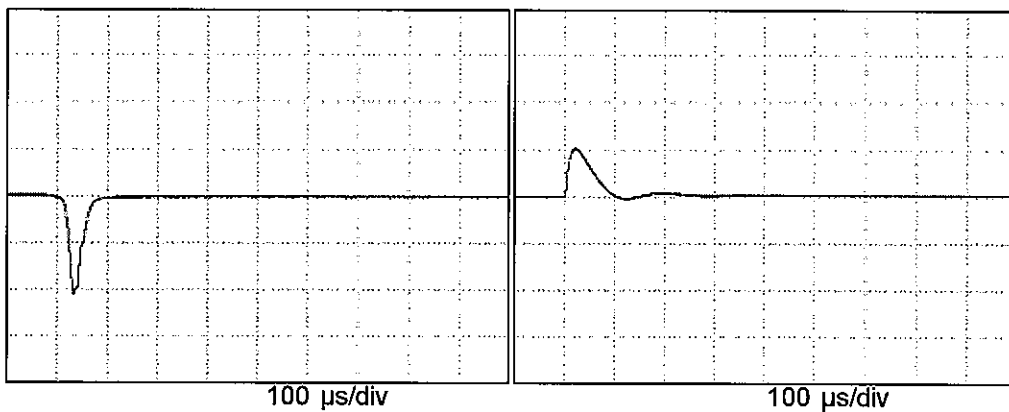
Model	G2-12	Temperature Testing Circuitry	25°C Figure A
Item	Dynamic Load Response		
Object	+12V1.2A		

Input Volt. 100 V
Cycle 1000 ms

Load Current

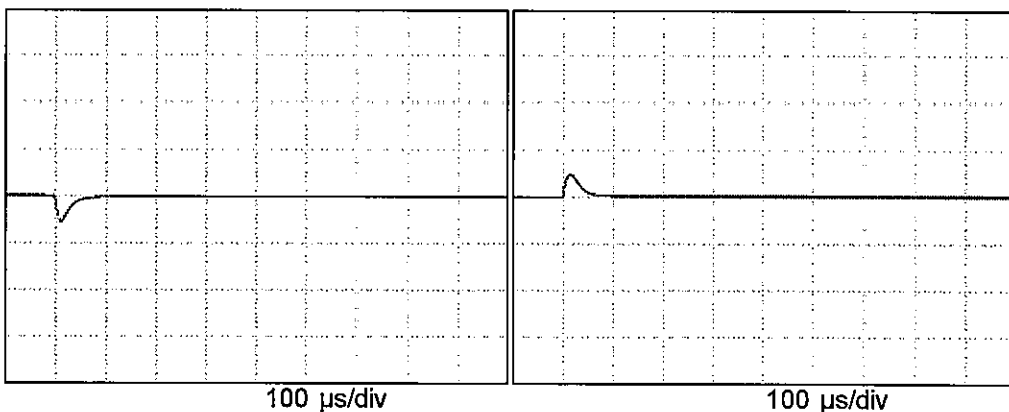
Min. Load (0A) ↔
Load 100% (1.2A)

50 mV/div



Load 50% (0.6A) ↔
Load 100% (1.2A)

50 mV/div



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Model		G2-12		Temperature 25°C																																										
Item		Ripple Voltage (by Load Current)		Testing Circuitry Figure A																																										
Object		+12V1.2A																																												
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>Ripple Voltage [mV]</p> <p>Load Current [A]</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>0.8</td><td>0.8</td></tr><tr><td>0.6</td><td>1.2</td><td>1.2</td></tr><tr><td>1.2</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	0.8	0.8	0.6	1.2	1.2	1.2	1.2	1.2	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-	--	-	-
Load Current [A]	Ripple Voltage [mV]																																													
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Measured by 20 MHz Oscilloscope.																																														
Note: Slanted line shows the range of the rated load current.																																														

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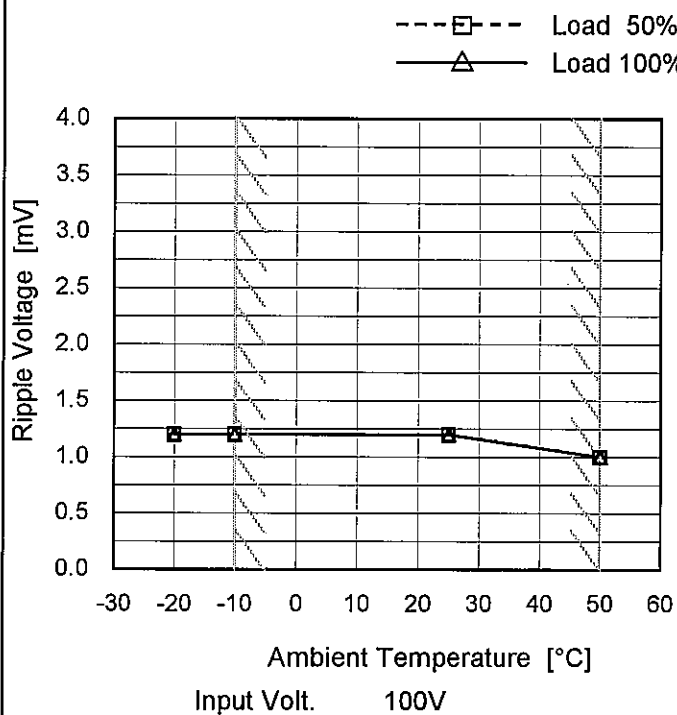
Model G2-12

Item Ripple Voltage (by Ambient Temp.)

Object +12V1.2A

Testing Circuitry Figure A

1. Graph



Measured by 20 MHz Oscilloscope.

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

2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-20	1.2	1.2
-10	1.2	1.2
25	1.2	1.2
50	1.0	1.0
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-
--	-	-

Model G2-12

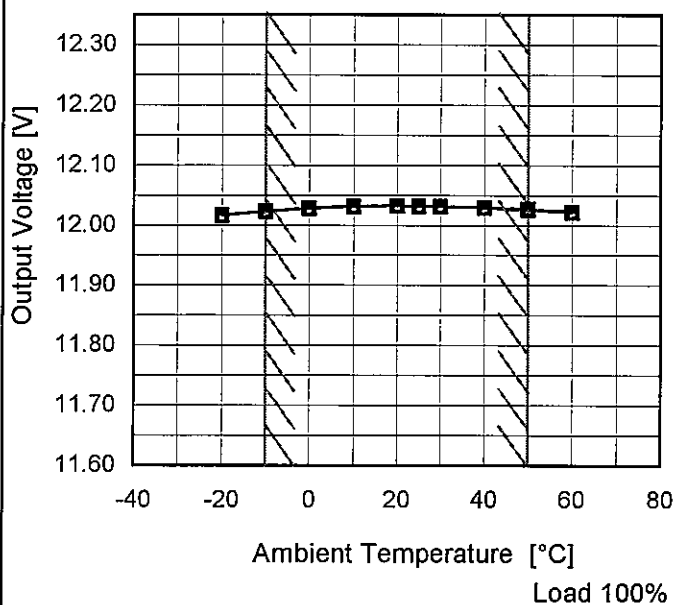
Item Ambient Temperature Drift

Object +12V1.2A

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	12.017	12.017	12.017
-10	12.023	12.023	12.023
0	12.028	12.028	12.028
10	12.031	12.031	12.031
20	12.032	12.032	12.032
25	12.032	12.032	12.032
30	12.031	12.032	12.032
40	12.030	12.030	12.030
50	12.027	12.027	12.027
60	12.022	12.022	12.022
--	-	-	-



		Testing Circuitry Figure A
Model	G2-12	
Item	Output Voltage Accuracy	
Object	+12V1.2A	

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 - 1.2A

* 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	20	110	0	12.034	±6	±0.1
Minimum Voltage	-10	90	1.2	12.023		

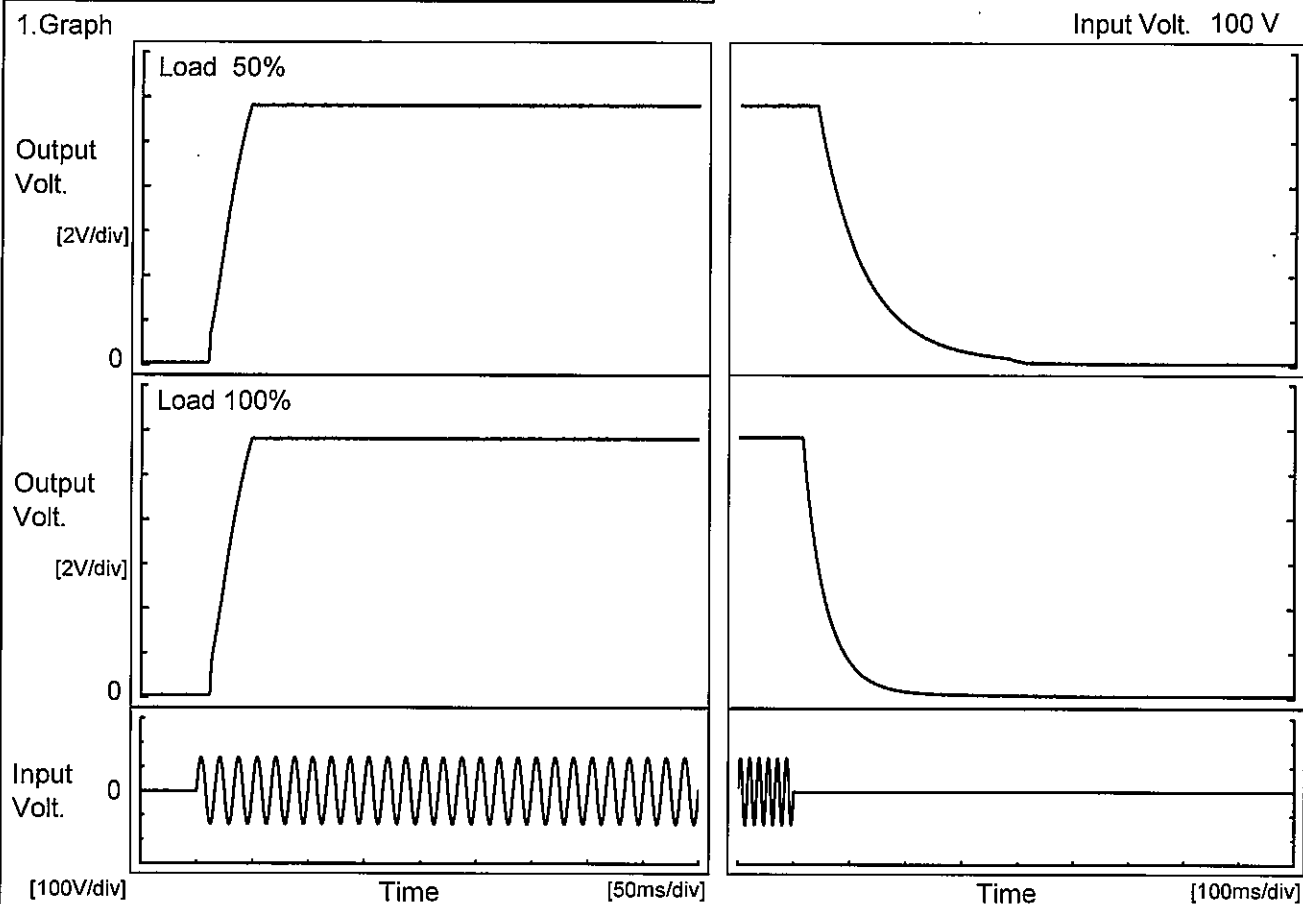


Model		G2-12	
Item		Time Lapse Drift	
Object		+12V1.2A	
1.Graph		Temperature 25°C Testing Circuitry Figure A	
<div><div>Output Voltage [V]</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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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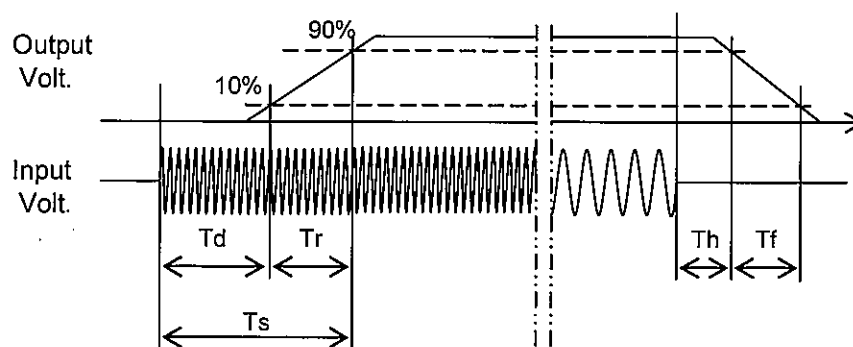
Model	G2-12	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+12V1.2A		

1. Graph



2. Values

		[ms]				
Load	Time	Td	Tr	Ts	Th	Tf
50 %		11.0	32.5	43.5	45.5	185.5
100 %		13.3	31.5	44.8	18.0	94.0



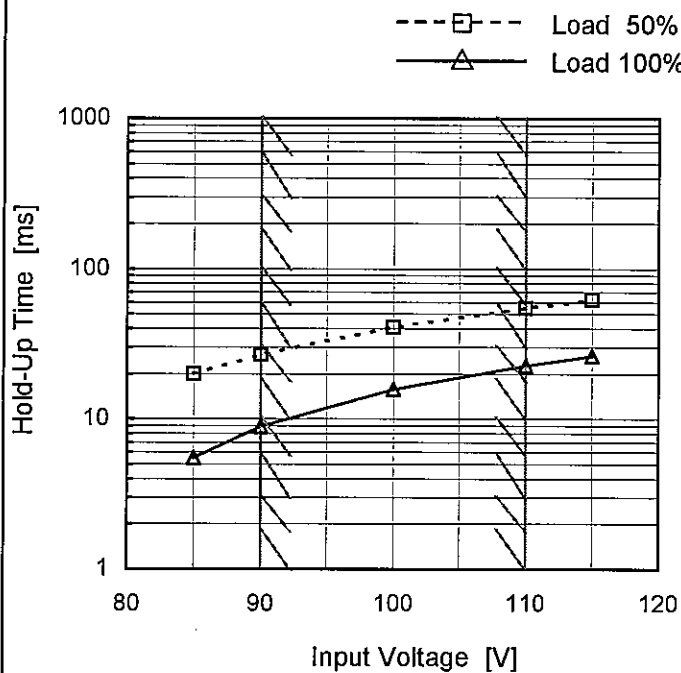
Model G2-12

Item Hold-Up Time

Object +12V1.2A

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	6
90	27	9
100	41	16
110	55	23
115	62	26
--	-	-
--	-	-
--	-	-
--	-	-

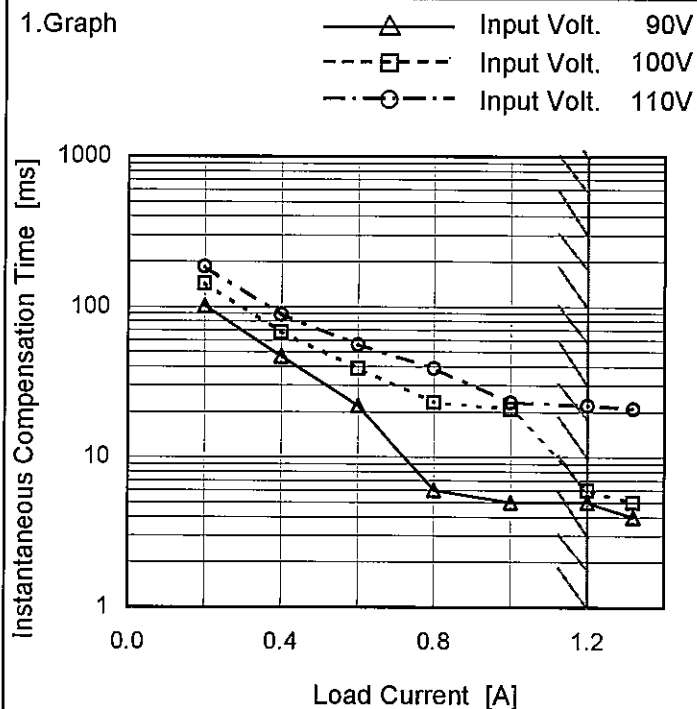
Model G2-12

Item Instantaneous Interruption Compensation

Object +12V1.2A

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]
0.00	-	-	-
0.20	102	144	185
0.40	47	68	89
0.60	22	39	56
0.80	6	23	39
1.00	5	21	23
1.20	5	6	22
1.32	4	5	21
--	-	-	-
--	-	-	-
--	-	-	-

Model

G2-12

Item

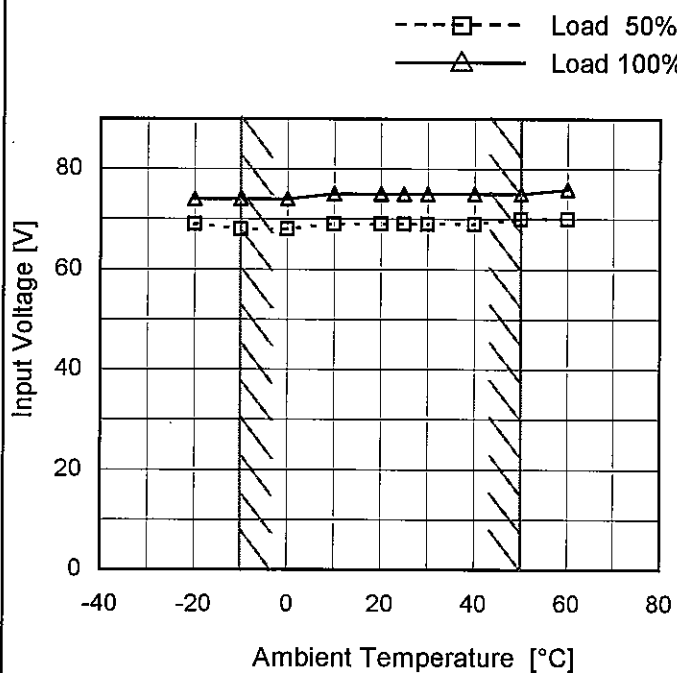
Minimum Input Voltage
for Regulated Output Voltage

Object

+12V1.2A

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	69	74
-10	68	74
0	68	74
10	69	75
20	69	75
25	69	75
30	69	75
40	69	75
50	70	75
60	70	76
--	-	-

Model G2-12

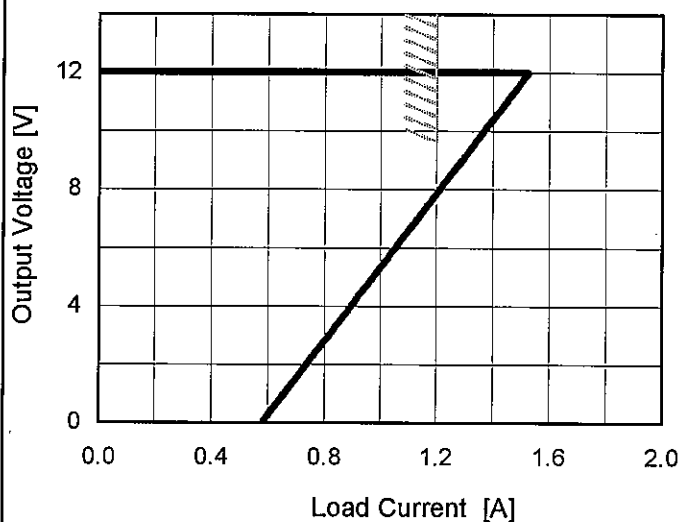
Item Overcurrent Protection

Object +12V1.2A

Temperature 25°C
Testing Circuitry Figure A

1. Graph

— Input Volt. 90V
— Input Volt. 100V
— Input Volt. 110V



2. Values

Output Voltage [V]	Load Current [A]		
	Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 110[V]
12.0	1.52	1.52	1.52
11.4	1.48	1.48	1.47
10.8	1.44	1.44	1.44
9.6	1.34	1.34	1.34
8.4	1.25	1.25	1.25
7.2	1.15	1.15	1.15
6.0	1.06	1.06	1.06
4.8	0.96	0.96	0.96
3.6	0.87	0.86	0.86
2.4	0.77	0.77	0.77
1.2	0.67	0.67	0.67
0.0	0.58	0.58	0.58

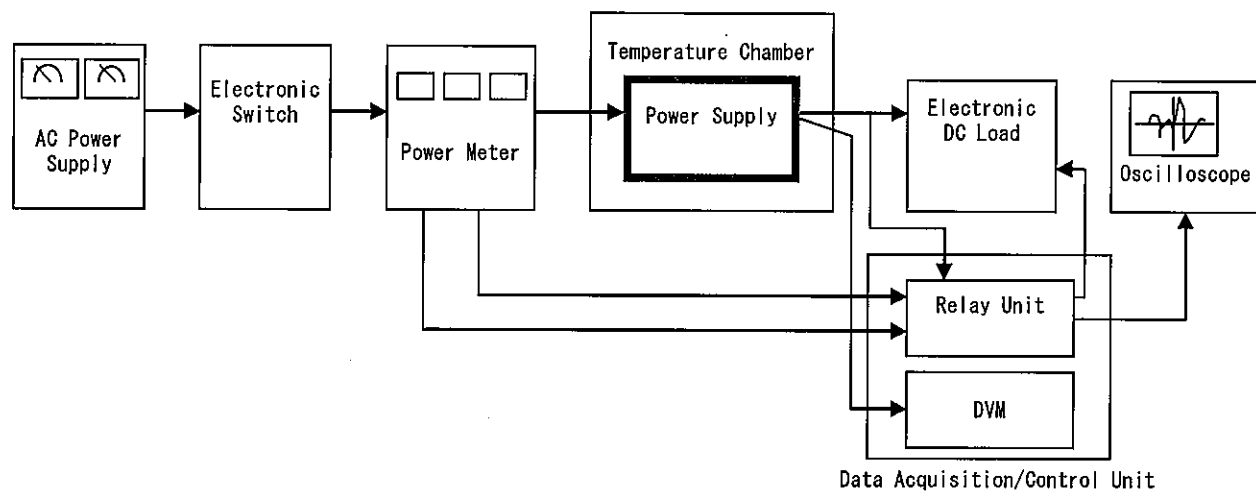


Figure A