

# TEST DATA OF MODULE G

(AME series)

Regulated DC Power Supply  
August 21, 2019

Approved by : Yoshimichi Hirokawa  
Yoshimichi Hirokawa                      Design Manager

Prepared by : Takashi Yamamine  
Takashi Yamamine                      Design Engineer

**COSEL CO.,LTD.**



CONTENTS

1. Line Regulation	1
2. Load Regulation	2
3. Dynamic Load Response	3
4. Ripple Voltage (by Load Current)	4
5. Ripple Noise	5
6. Ripple Voltage (by Ambient Temperature)	6
7. Ambient Temperature Drift	7
8. Output Voltage Accuracy	8
9. Time Lapse Drift	9
10. Overcurrent Protection	10
11. Overvoltage Protection	11
12. Figure of Testing Circuitry	12

(Final Page 12)



<b>COSEL</b>																																		
Model	MODULE G																																	
Item	Line Regulation	Temperature 25°C Testing Circuitry Figure A																																
Object	+24V10A																																	
<p>1. Graph</p> <p style="text-align: right;">             --- □ --- Load 50%              ——— △ ——— Load 100%         </p> <p>Note: Hatched line shows the input voltage range.</p>		<p>2. Value</p> <table border="1"> <thead> <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> </thead> <tbody> <tr><td>85</td><td>24.215</td><td>24.213</td></tr> <tr><td>90</td><td>24.215</td><td>24.220</td></tr> <tr><td>100</td><td>24.214</td><td>24.219</td></tr> <tr><td>115</td><td>24.214</td><td>24.223</td></tr> <tr><td>150</td><td>24.213</td><td>24.223</td></tr> <tr><td>200</td><td>24.213</td><td>24.222</td></tr> <tr><td>230</td><td>24.212</td><td>24.222</td></tr> <tr><td>264</td><td>24.212</td><td>24.222</td></tr> <tr><td>--</td><td>-</td><td>-</td></tr> </tbody> </table>	Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	85	24.215	24.213	90	24.215	24.220	100	24.214	24.219	115	24.214	24.223	150	24.213	24.223	200	24.213	24.222	230	24.212	24.222	264	24.212	24.222	--	-	-
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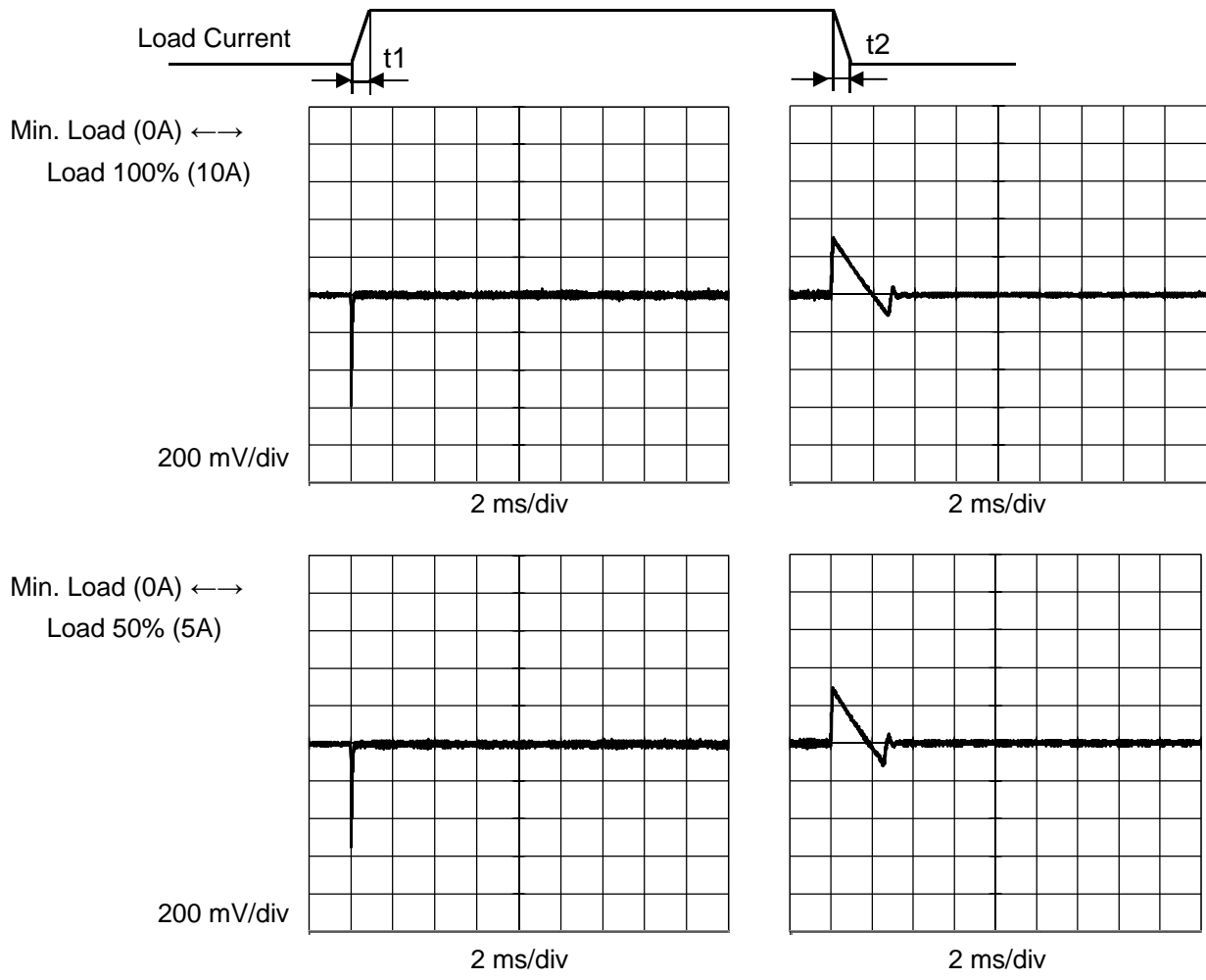


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Model		MODULE G	
Item		Temperature	25° C
Object		Testing Circuitry	Figure A
		+24V10A	

Input Volt. 100 V      Response t1=t2=50us. Typ  
 Cycle 1000 ms





<p>Model MODULE G</p>		<p>Temperature 25°C Testing Circuitry Figure B</p>																																						
Item	Ripple Voltage (by Load Current)																																							
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<p>1. Graph</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>—△— Input Volt. 100 V</p> <p>- -○- - Input Volt. 230 V</p> </div> </div>		<p>2. Value</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="2">Ripple Voltage [mV]</th> </tr> <tr> <th>Input Volt. 100[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr><td>0</td><td>20</td><td>20</td></tr> <tr><td>2</td><td>50</td><td>50</td></tr> <tr><td>4</td><td>50</td><td>50</td></tr> <tr><td>6</td><td>55</td><td>55</td></tr> <tr><td>8</td><td>55</td><td>55</td></tr> <tr><td>10</td><td>55</td><td>55</td></tr> <tr><td>11</td><td>55</td><td>55</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>	Load Current [A]	Ripple Voltage [mV]		Input Volt. 100[V]	Input Volt. 230[V]	0	20	20	2	50	50	4	50	50	6	55	55	8	55	55	10	55	55	11	55	55	--	-	-	--	-	-	--	-	-	--	-	-
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<b>COSEL</b>		
Model	MODULE G	
Item	Output Voltage Accuracy	Testing Circuitry Figure A
Object	+24V10A	

1. Output Voltage Accuracy

This means the output voltage fluctuation of the time the ambient temperature, the input voltage and/or the load current are varied arbitrarily in the range below.

Temperature : -20 - 50°C

Input Voltage : 85 - 264V

Load Current : 0 - 10A

\* 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. Value

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ratio [%]
Maximum Voltage	50	264	0	24.270	±64	±0.3
Minimum Voltage	-20	100	10	24.143		



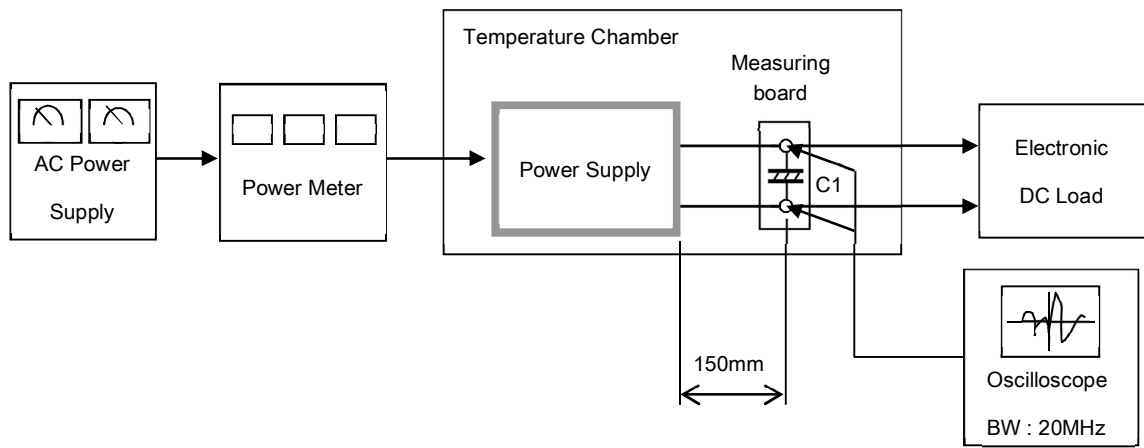
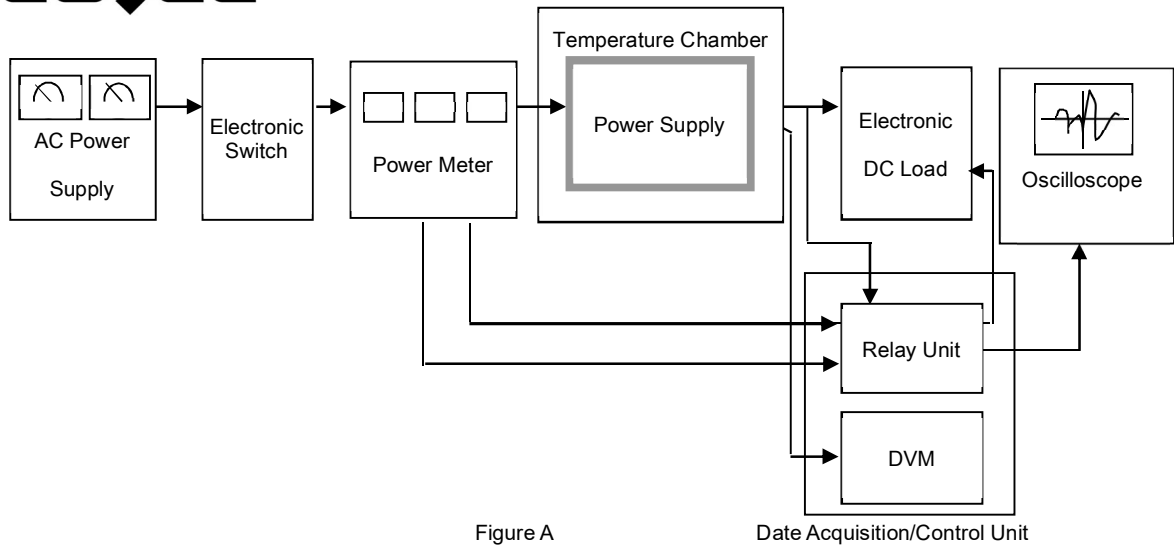
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<p>1. Graph</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>— Input Volt. 100V</p> <p>— Input Volt. 200V</p> <p>— Input Volt. 230V</p> </div> </div> <p>Output Voltage [V]</p> <p>Load Current [A]</p> <p>Note: Hatched line shows the range of the rated load current.</p> <p>Hiccup mode activates when the output voltage is below 12.0V.</p>		<p>2. Value</p> <table border="1"> <thead> <tr> <th rowspan="2">Output Voltage [V]</th> <th colspan="3">Load Current [A]</th> </tr> <tr> <th>Input Volt. 100[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 230[V]</th> </tr> </thead> <tbody> <tr><td>22.8</td><td>16.80</td><td>16.82</td><td>16.81</td></tr> <tr><td>18.5</td><td>17.51</td><td>17.53</td><td>17.53</td></tr> <tr><td>16.0</td><td>18.00</td><td>18.00</td><td>18.00</td></tr> <tr><td>14.0</td><td>18.50</td><td>18.54</td><td>18.52</td></tr> <tr><td>12.0</td><td>18.90</td><td>18.91</td><td>18.90</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> <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> </tbody> </table>	Output Voltage [V]	Load Current [A]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	22.8	16.80	16.82	16.81	18.5	17.51	17.53	17.53	16.0	18.00	18.00	18.00	14.0	18.50	18.54	18.52	12.0	18.90	18.91	18.90	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-	--	-	-	-
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