

TEST DATA OF MUS1R52412

Regulated DC Power Supply
February 4, 2025

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Design Manager

Prepared by : Soichiro Kawaguchi
Design Engineer

COSEL CO.,LTD.

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| Model | | MUS1R52412 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Item | | Input Current (by Load Current) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div>—△—</div><div>Input Volt.</div><div>18V</div></div><div><div>---□---</div><div>Input Volt.</div><div>24V</div></div><div><div>---○---</div><div>Input Volt.</div><div>36V</div></div></div> <p>Input Current [A]</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p> | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Current [A]</th></tr><tr><th>Input Volt. 18[V]</th><th>Input Volt. 24[V]</th><th>Input Volt. 36[V]</th></tr><tr><td>0.000</td><td>0.005</td><td>0.005</td><td>0.003</td></tr><tr><td>0.026</td><td>0.028</td><td>0.023</td><td>0.016</td></tr><tr><td>0.052</td><td>0.047</td><td>0.034</td><td>0.027</td></tr><tr><td>0.078</td><td>0.067</td><td>0.050</td><td>0.034</td></tr><tr><td>0.104</td><td>0.087</td><td>0.067</td><td>0.045</td></tr><tr><td>0.130</td><td>0.106</td><td>0.080</td><td>0.056</td></tr><tr><td>0.143</td><td>0.118</td><td>0.089</td><td>0.060</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] | Input Current [A] | | | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | 0.000 | 0.005 | 0.005 | 0.003 | 0.026 | 0.028 | 0.023 | 0.016 | 0.052 | 0.047 | 0.034 | 0.027 | 0.078 | 0.067 | 0.050 | 0.034 | 0.104 | 0.087 | 0.067 | 0.045 | 0.130 | 0.106 | 0.080 | 0.056 | 0.143 | 0.118 | 0.089 | 0.060 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Load Current [A] | Input Current [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.000 | 0.005 | 0.005 | 0.003 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.026 | 0.028 | 0.023 | 0.016 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.052 | 0.047 | 0.034 | 0.027 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.078 | 0.067 | 0.050 | 0.034 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.104 | 0.087 | 0.067 | 0.045 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.130 | 0.106 | 0.080 | 0.056 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.143 | 0.118 | 0.089 | 0.060 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Model | | MUS1R52412 | Temperature 25°C Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-------------------|--|--|----------------|--|--|-------------------|-------------------|-------------------|-------|---|---|---|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|--|--|
| Item | | Efficiency (by Load Current) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | <div><div>—△—</div>Input Volt. 18V</div> <div><div>---□---</div>Input Volt. 24V</div> <div><div>---○---</div>Input Volt. 36V</div> <p>Efficiency [%]</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p> | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Efficiency [%]</th></tr><tr><th>Input Volt. 18[V]</th><th>Input Volt. 24[V]</th><th>Input Volt. 36[V]</th></tr><tr><td>0.000</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.026</td><td>67.8</td><td>61.0</td><td>61.0</td></tr><tr><td>0.052</td><td>77.2</td><td>79.9</td><td>68.2</td></tr><tr><td>0.078</td><td>78.5</td><td>78.5</td><td>79.0</td></tr><tr><td>0.104</td><td>80.6</td><td>79.6</td><td>79.0</td></tr><tr><td>0.130</td><td>81.5</td><td>80.9</td><td>78.9</td></tr><tr><td>0.143</td><td>81.8</td><td>81.3</td><td>79.5</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. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | 0.000 | - | - | - | 0.026 | 67.8 | 61.0 | 61.0 | 0.052 | 77.2 | 79.9 | 68.2 | 0.078 | 78.5 | 78.5 | 79.0 | 0.104 | 80.6 | 79.6 | 79.0 | 0.130 | 81.5 | 80.9 | 78.9 | 0.143 | 81.8 | 81.3 | 79.5 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - | | |
| Load Current [A] | Efficiency [%] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.000 | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.026 | 67.8 | 61.0 | 61.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.052 | 77.2 | 79.9 | 68.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.078 | 78.5 | 78.5 | 79.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.104 | 80.6 | 79.6 | 79.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.130 | 81.5 | 80.9 | 78.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.143 | 81.8 | 81.3 | 79.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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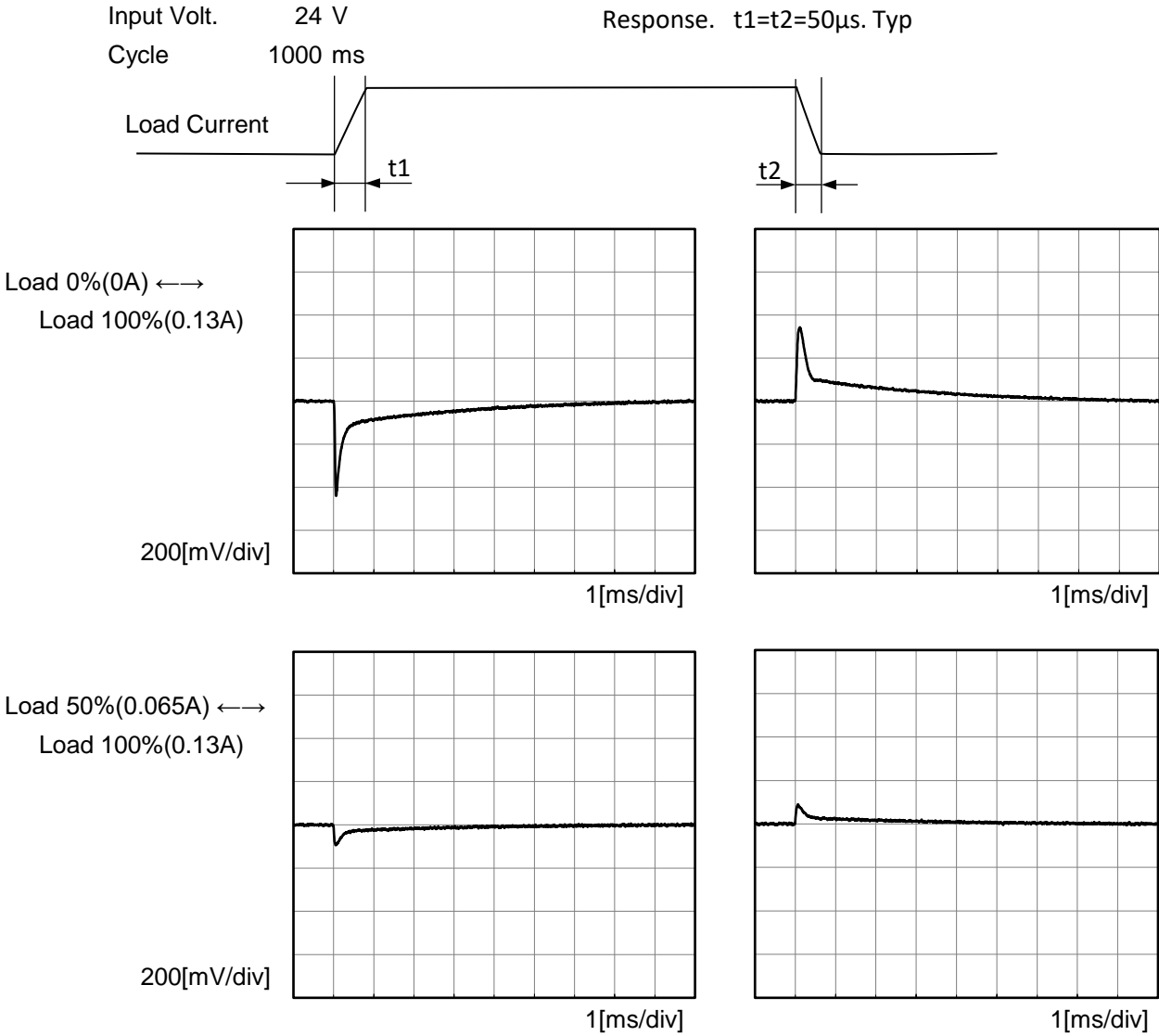
| <div>LOREL</div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Model | MUS1R52412 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Item | Line Regulation | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +12V0.13A | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div><div>---</div><div>□</div><div>---</div></div><div>Load 50%</div></div><div><div>—</div><div>△</div><div>—</div></div><div>Load 100%</div></div> <div><div><div>Output Voltage [V]</div><div>12.6</div><div>12.4</div><div>12.2</div><div>12.0</div><div>11.8</div><div>11.6</div></div><div><div>10</div><div>20</div><div>30</div><div>40</div></div><div><div>Input Voltage [V]</div></div></div> <div>Note: Slanted line shows the range of the rated input voltage.</div> | | <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>16</td><td>11.980</td><td>11.980</td></tr><tr><td>18</td><td>11.980</td><td>11.980</td></tr><tr><td>20</td><td>11.980</td><td>11.980</td></tr><tr><td>24</td><td>11.980</td><td>11.980</td></tr><tr><td>30</td><td>11.980</td><td>11.980</td></tr><tr><td>36</td><td>11.980</td><td>11.980</td></tr><tr><td>40</td><td>11.980</td><td>11.980</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% | 16 | 11.980 | 11.980 | 18 | 11.980 | 11.980 | 20 | 11.980 | 11.980 | 24 | 11.980 | 11.980 | 30 | 11.980 | 11.980 | 36 | 11.980 | 11.980 | 40 | 11.980 | 11.980 | -- | - | - | -- | - | - |
| Input Voltage [V] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 11.980 | 11.980 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 11.980 | 11.980 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 11.980 | 11.980 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 11.980 | 11.980 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 11.980 | 11.980 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | 11.980 | 11.980 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 11.980 | 11.980 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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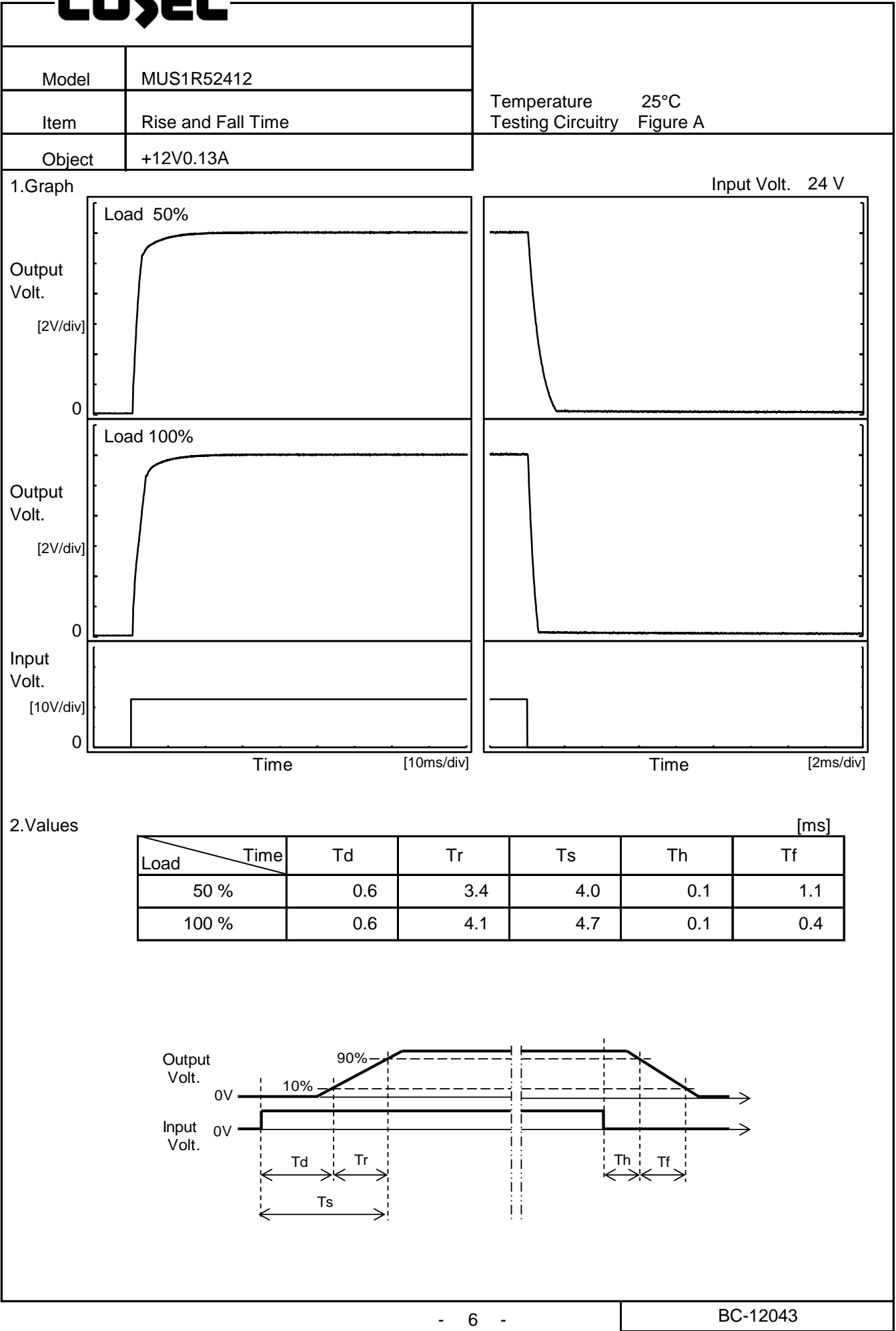
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| Item | Load Regulation | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +12V0.13A | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div></div><div><div>Input Volt. 18V</div><div>Input Volt. 24V</div><div>Input Volt. 36V</div></div></div> <div><div><div><div>12.6</div><div>12.4</div><div>12.2</div><div>12.0</div><div>11.8</div><div>11.6</div></div><div><div>0.00</div><div>0.03</div><div>0.06</div><div>0.09</div><div>0.12</div><div>0.15</div></div></div><div><div>Output Voltage [V]</div><div>Load Current [A]</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">Output Voltage [V]</th></tr><tr><th>Input Volt. 18[V]</th><th>Input Volt. 24[V]</th><th>Input Volt. 36[V]</th></tr><tr><td>0.000</td><td>11.983</td><td>11.983</td><td>11.983</td></tr><tr><td>0.026</td><td>11.982</td><td>11.981</td><td>11.981</td></tr><tr><td>0.052</td><td>11.981</td><td>11.981</td><td>11.981</td></tr><tr><td>0.078</td><td>11.980</td><td>11.980</td><td>11.980</td></tr><tr><td>0.104</td><td>11.980</td><td>11.980</td><td>11.980</td></tr><tr><td>0.130</td><td>11.980</td><td>11.980</td><td>11.980</td></tr><tr><td>0.143</td><td>11.980</td><td>11.980</td><td>11.980</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] | Output Voltage [V] | | | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | 0.000 | 11.983 | 11.983 | 11.983 | 0.026 | 11.982 | 11.981 | 11.981 | 0.052 | 11.981 | 11.981 | 11.981 | 0.078 | 11.980 | 11.980 | 11.980 | 0.104 | 11.980 | 11.980 | 11.980 | 0.130 | 11.980 | 11.980 | 11.980 | 0.143 | 11.980 | 11.980 | 11.980 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
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| 0.143 | 11.980 | 11.980 | 11.980 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| -- | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Item | Ripple-Noise | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +12V0.13A | Testing Circuitry | Figure B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div>Input Voltage 24V</div><div>Load 100%</div></div><div><div><div><div>10[mV/div]</div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| | | | |
|--------|--|-----------------------|--|
| Model | | MUS1R52412 | Temperature 25°C Testing Circuitry Figure A |
| Item | | Dynamic Load Response | |
| Object | | +12V0.13A | |





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| <div>COSEL</div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------|---|-------------------|--------------------|------------------|--|--|-------------------|-------------------|-------------------|------|------|------|------|------|------|------|------|-----|------|------|------|-----|------|------|------|-----|------|------|------|-----|------|------|------|-----|------|------|------|-----|------|------|------|-----|------|------|------|-----|------|------|------|-----|------|------|------|----|---|---|---|
| Model | MUS1R52412 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Item | Overcurrent Protection | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +12V0.13A | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph <div><div><div></div><div>Input Volt.</div><div>18V</div></div><div><div></div><div>Input Volt.</div><div>24V</div></div><div><div></div><div>Input Volt.</div><div>36V</div></div></div> <div><p>Note: Slanted line shows the range of the rated load current.</p></div> | | 2.Values <div><table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="3">Load Current [A]</th></tr><tr><th>Input Volt. 18[V]</th><th>Input Volt. 24[V]</th><th>Input Volt. 36[V]</th></tr><tr><td>11.4</td><td>0.19</td><td>0.21</td><td>0.23</td></tr><tr><td>10.8</td><td>0.20</td><td>0.21</td><td>0.24</td></tr><tr><td>9.6</td><td>0.21</td><td>0.23</td><td>0.26</td></tr><tr><td>8.4</td><td>0.23</td><td>0.25</td><td>0.28</td></tr><tr><td>7.2</td><td>0.25</td><td>0.27</td><td>0.30</td></tr><tr><td>6.0</td><td>0.27</td><td>0.29</td><td>0.32</td></tr><tr><td>4.8</td><td>0.30</td><td>0.32</td><td>0.35</td></tr><tr><td>3.6</td><td>0.33</td><td>0.35</td><td>0.38</td></tr><tr><td>2.4</td><td>0.36</td><td>0.38</td><td>0.41</td></tr><tr><td>1.2</td><td>0.40</td><td>0.42</td><td>0.44</td></tr><tr><td>0.0</td><td>0.44</td><td>0.46</td><td>0.45</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table></div> | | Output Voltage [V] | Load Current [A] | | | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | 11.4 | 0.19 | 0.21 | 0.23 | 10.8 | 0.20 | 0.21 | 0.24 | 9.6 | 0.21 | 0.23 | 0.26 | 8.4 | 0.23 | 0.25 | 0.28 | 7.2 | 0.25 | 0.27 | 0.30 | 6.0 | 0.27 | 0.29 | 0.32 | 4.8 | 0.30 | 0.32 | 0.35 | 3.6 | 0.33 | 0.35 | 0.38 | 2.4 | 0.36 | 0.38 | 0.41 | 1.2 | 0.40 | 0.42 | 0.44 | 0.0 | 0.44 | 0.46 | 0.45 | -- | - | - | - |
| Output Voltage [V] | Load Current [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11.4 | 0.19 | 0.21 | 0.23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10.8 | 0.20 | 0.21 | 0.24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.6 | 0.21 | 0.23 | 0.26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.4 | 0.23 | 0.25 | 0.28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.2 | 0.25 | 0.27 | 0.30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.0 | 0.27 | 0.29 | 0.32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.8 | 0.30 | 0.32 | 0.35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.6 | 0.33 | 0.35 | 0.38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4 | 0.36 | 0.38 | 0.41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | 0.40 | 0.42 | 0.44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 0.44 | 0.46 | 0.45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| | | |
|--------|---------------------------|----------------------------|
| | | Testing Circuitry Figure A |
| Model | MUS1R52412 | |
| Item | Ambient Temperature Drift | |
| Object | +12V0.13A | |

1.Values

Load 100%

| Ambient Temperature[°C] | Output Voltage [V] | | |
|-------------------------|--------------------|-----------------|-----------------|
| | Input Volt. 18V | Input Volt. 24V | Input Volt. 36V |
| -40 | 11.903 | 11.904 | 11.905 |
| 25 | 11.978 | 11.979 | 11.979 |
| 85 | 11.998 | 11.998 | 11.998 |

| | | |
|--------|---|----------------------------|
| Item | Minimum Input Voltage for Regulated Output Voltage | Testing Circuitry Figure A |
| Object | +12V0.13A | |

1.Values

| Ambient Temperature[°C] | Input Voltage [V] | |
|-------------------------|-------------------|-----------|
| | Load 50% | Load 100% |
| -40 | 14.0 | 14.0 |
| 25 | 14.0 | 14.0 |
| 85 | 14.0 | 14.1 |

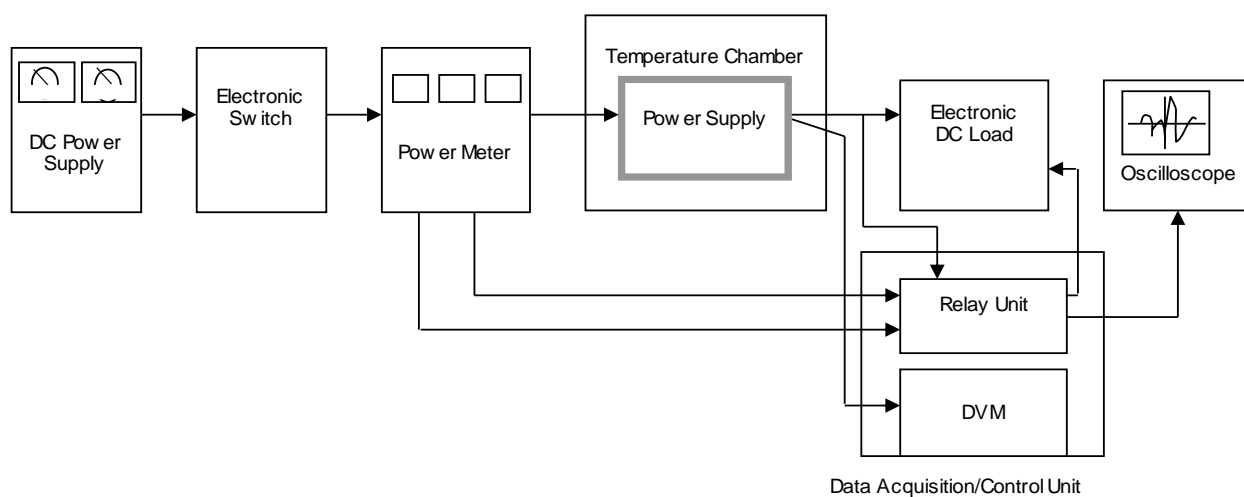


Figure A

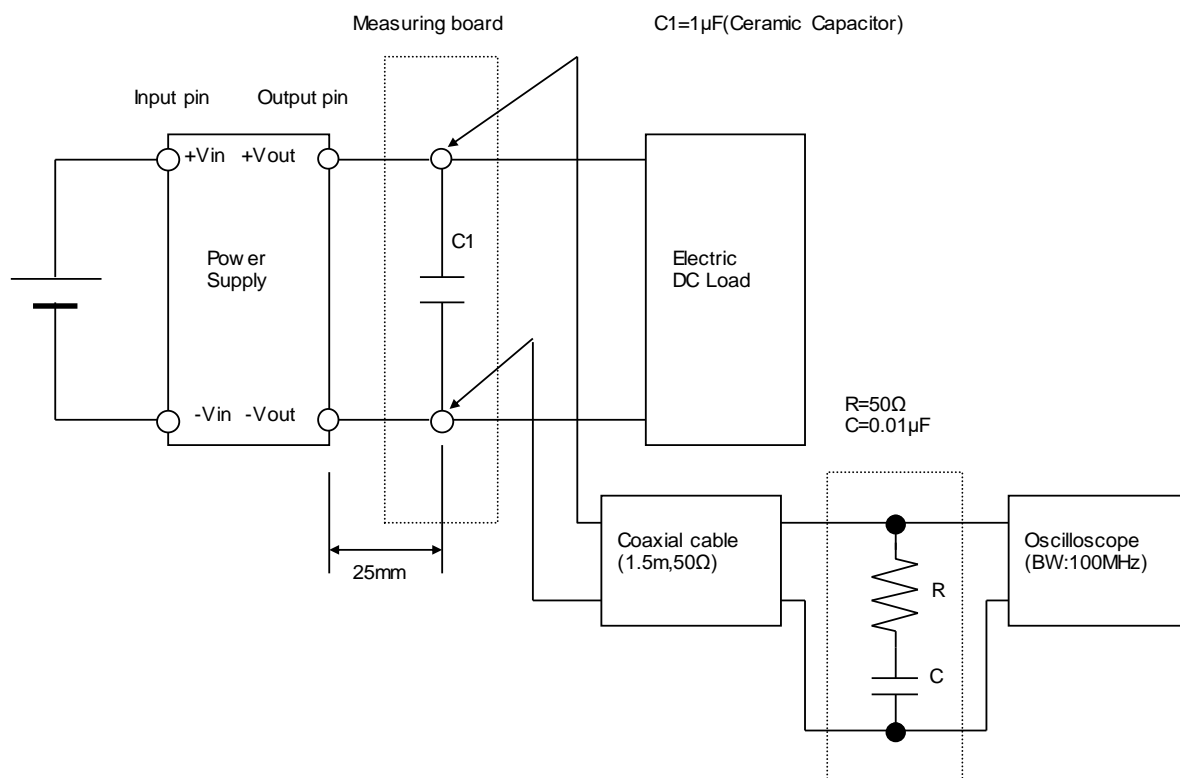


Figure B