

TEST DATA OF MGFS154805

Regulated DC Power Supply
September 7, 2010

Approved by : *Kazunori Asano*
Kazunari Asano Design Manager

Prepared by : *Yufchiro Ohashi*
Yufchiro Ohashi Design Engineer

COSEL CO.,LTD.

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| <p>Model MGFS154805</p> | | <p>Temperature 25°C</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|---|-------------------|-------------------|--|--|---------|----------|-----------|-----|-------|-------|-------|-----|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|
| <p>Item Input Current (by Input Voltage)</p> | | <p>Testing Circuitry Figure A</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Object _____</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>1.Graph</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> </div> <div style="width: 45%;"> <p>—△— Load 100%</p> <p>- - -□- - Load 50%</p> <p>- · -○- · - Load 0%</p> </div> </div> | | <p>2.Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th colspan="3">Input Current [A]</th> </tr> <tr> <th>Load 0%</th> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>0.000</td><td>0.000</td><td>0.000</td></tr> <tr><td>5.0</td><td>0.002</td><td>0.002</td><td>0.002</td></tr> <tr><td>10.0</td><td>0.002</td><td>0.002</td><td>0.002</td></tr> <tr><td>15.0</td><td>0.002</td><td>0.002</td><td>0.002</td></tr> <tr><td>16.0</td><td>0.002</td><td>0.002</td><td>0.002</td></tr> <tr><td>16.5</td><td>0.033</td><td>0.519</td><td>1.067</td></tr> <tr><td>17.0</td><td>0.033</td><td>0.501</td><td>1.034</td></tr> <tr><td>17.5</td><td>0.032</td><td>0.486</td><td>1.003</td></tr> <tr><td>18.0</td><td>0.032</td><td>0.473</td><td>0.975</td></tr> <tr><td>24.0</td><td>0.026</td><td>0.351</td><td>0.713</td></tr> <tr><td>36.0</td><td>0.020</td><td>0.235</td><td>0.467</td></tr> <tr><td>48.0</td><td>0.017</td><td>0.177</td><td>0.349</td></tr> <tr><td>76.0</td><td>0.013</td><td>0.114</td><td>0.222</td></tr> <tr><td>80.0</td><td>0.012</td><td>0.108</td><td>0.211</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> | Input Voltage [V] | Input Current [A] | | | Load 0% | Load 50% | Load 100% | 0.0 | 0.000 | 0.000 | 0.000 | 5.0 | 0.002 | 0.002 | 0.002 | 10.0 | 0.002 | 0.002 | 0.002 | 15.0 | 0.002 | 0.002 | 0.002 | 16.0 | 0.002 | 0.002 | 0.002 | 16.5 | 0.033 | 0.519 | 1.067 | 17.0 | 0.033 | 0.501 | 1.034 | 17.5 | 0.032 | 0.486 | 1.003 | 18.0 | 0.032 | 0.473 | 0.975 | 24.0 | 0.026 | 0.351 | 0.713 | 36.0 | 0.020 | 0.235 | 0.467 | 48.0 | 0.017 | 0.177 | 0.349 | 76.0 | 0.013 | 0.114 | 0.222 | 80.0 | 0.012 | 0.108 | 0.211 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Input Voltage [V] | Input Current [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 0% | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 0.000 | 0.000 | 0.000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.0 | 0.002 | 0.002 | 0.002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10.0 | 0.002 | 0.002 | 0.002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15.0 | 0.002 | 0.002 | 0.002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16.0 | 0.002 | 0.002 | 0.002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16.5 | 0.033 | 0.519 | 1.067 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17.0 | 0.033 | 0.501 | 1.034 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17.5 | 0.032 | 0.486 | 1.003 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 24.0 | 0.026 | 0.351 | 0.713 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 48.0 | 0.017 | 0.177 | 0.349 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 76.0 | 0.013 | 0.114 | 0.222 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80.0 | 0.012 | 0.108 | 0.211 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Note: Slanted line shows the range of the rated input voltage.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Model | | MGFS154805 | | Temperature 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|--|-------------------|---|-------------------|------------------|-------------------|--|--|--|--|-------------------|-------------------|-------------------|-------------------|-------------------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|----|---|---|---|---|---|----|---|---|---|---|---|----|---|---|---|---|---|----|---|---|---|---|---|
| Item | | Input Current (by Load Current) | | Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | <p> —△— Input Volt. 18V - - - □ - - - Input Volt. 24V - · · * · · - · - · - Input Volt. 36V - · · ○ · · - · - · - Input Volt. 48V - - - ◇ - - - Input Volt. 76V </p> | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="5">Input Current [A]</th> </tr> <tr> <th>Input Volt. 18[V]</th> <th>Input Volt. 24[V]</th> <th>Input Volt. 36[V]</th> <th>Input Volt. 48[V]</th> <th>Input Volt. 76[V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>0.032</td><td>0.026</td><td>0.020</td><td>0.017</td><td>0.013</td></tr> <tr><td>0.6</td><td>0.201</td><td>0.153</td><td>0.105</td><td>0.080</td><td>0.053</td></tr> <tr><td>1.2</td><td>0.378</td><td>0.283</td><td>0.191</td><td>0.144</td><td>0.093</td></tr> <tr><td>1.8</td><td>0.566</td><td>0.419</td><td>0.280</td><td>0.210</td><td>0.134</td></tr> <tr><td>2.4</td><td>0.762</td><td>0.561</td><td>0.372</td><td>0.278</td><td>0.177</td></tr> <tr><td>3.0</td><td>0.975</td><td>0.713</td><td>0.468</td><td>0.348</td><td>0.222</td></tr> <tr><td>3.3</td><td>1.078</td><td>0.785</td><td>0.516</td><td>0.384</td><td>0.244</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> | | Load Current [A] | Input Current [A] | | | | | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | Input Volt. 48[V] | Input Volt. 76[V] | 0.0 | 0.032 | 0.026 | 0.020 | 0.017 | 0.013 | 0.6 | 0.201 | 0.153 | 0.105 | 0.080 | 0.053 | 1.2 | 0.378 | 0.283 | 0.191 | 0.144 | 0.093 | 1.8 | 0.566 | 0.419 | 0.280 | 0.210 | 0.134 | 2.4 | 0.762 | 0.561 | 0.372 | 0.278 | 0.177 | 3.0 | 0.975 | 0.713 | 0.468 | 0.348 | 0.222 | 3.3 | 1.078 | 0.785 | 0.516 | 0.384 | 0.244 | -- | - | - | - | - | - | -- | - | - | - | - | - | -- | - | - | - | - | - | -- | - | - | - | - | - |
| Load Current [A] | Input Current [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | Input Volt. 48[V] | Input Volt. 76[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 0.032 | 0.026 | 0.020 | 0.017 | 0.013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.6 | 0.201 | 0.153 | 0.105 | 0.080 | 0.053 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | 0.378 | 0.283 | 0.191 | 0.144 | 0.093 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 3.3 | 1.078 | 0.785 | 0.516 | 0.384 | 0.244 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Note: Slanted line shows the range of the rated load current.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Model | | MGFS154805 | | Temperature 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Item | | Input Power (by Load Current) | | Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | <ul style="list-style-type: none"> —△— Input Volt. 18V - - □ - - Input Volt. 24V - · · * · · - · · Input Volt. 36V - · · ○ · · - · · Input Volt. 48V - - ◇ - - Input Volt. 76V | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="5">Input Power [W]</th> </tr> <tr> <th>Input Volt. 18[V]</th> <th>Input Volt. 24[V]</th> <th>Input Volt. 36[V]</th> <th>Input Volt. 48[V]</th> <th>Input Volt. 76[V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>0.59</td><td>0.64</td><td>0.75</td><td>0.78</td><td>1.00</td></tr> <tr><td>0.6</td><td>3.67</td><td>3.73</td><td>3.82</td><td>3.85</td><td>4.05</td></tr> <tr><td>1.2</td><td>6.90</td><td>6.88</td><td>6.92</td><td>6.95</td><td>7.14</td></tr> <tr><td>1.8</td><td>10.28</td><td>10.16</td><td>10.13</td><td>10.13</td><td>10.26</td></tr> <tr><td>2.4</td><td>13.85</td><td>13.63</td><td>13.45</td><td>13.43</td><td>13.55</td></tr> <tr><td>3.0</td><td>17.58</td><td>17.18</td><td>16.93</td><td>16.82</td><td>16.94</td></tr> <tr><td>3.3</td><td>19.53</td><td>19.02</td><td>18.70</td><td>18.59</td><td>18.72</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> | | Load Current [A] | Input Power [W] | | | | | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | Input Volt. 48[V] | Input Volt. 76[V] | 0.0 | 0.59 | 0.64 | 0.75 | 0.78 | 1.00 | 0.6 | 3.67 | 3.73 | 3.82 | 3.85 | 4.05 | 1.2 | 6.90 | 6.88 | 6.92 | 6.95 | 7.14 | 1.8 | 10.28 | 10.16 | 10.13 | 10.13 | 10.26 | 2.4 | 13.85 | 13.63 | 13.45 | 13.43 | 13.55 | 3.0 | 17.58 | 17.18 | 16.93 | 16.82 | 16.94 | 3.3 | 19.53 | 19.02 | 18.70 | 18.59 | 18.72 | -- | - | - | - | - | - | -- | - | - | - | - | - | -- | - | - | - | - | - | -- | - | - | - | - | - |
| Load Current [A] | Input Power [W] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | Input Volt. 48[V] | Input Volt. 76[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 0.59 | 0.64 | 0.75 | 0.78 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.6 | 3.67 | 3.73 | 3.82 | 3.85 | 4.05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | 6.90 | 6.88 | 6.92 | 6.95 | 7.14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.8 | 10.28 | 10.16 | 10.13 | 10.13 | 10.26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4 | 13.85 | 13.63 | 13.45 | 13.43 | 13.55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 17.58 | 17.18 | 16.93 | 16.82 | 16.94 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3 | 19.53 | 19.02 | 18.70 | 18.59 | 18.72 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note: Slanted line shows the range of the rated load current. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| <p>Model MGFS154805</p> | | <p>Temperature 25°C Testing Circuitry Figure A</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------------|---|-------------------|----------------|--|----------|-----------|----|------|------|----|------|------|----|------|------|----|------|------|----|------|------|----|------|------|----|------|------|----|------|------|----|------|------|
| Item | Efficiency (by Input Voltage) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>1. Graph</p> <p>---□--- Load 50% —△— Load 100%</p> <p>Note: Slanted line shows the range of the rated input voltage.</p> | | <p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th colspan="2">Efficiency [%]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr><td>17</td><td>88.2</td><td>85.5</td></tr> <tr><td>18</td><td>88.3</td><td>86.0</td></tr> <tr><td>24</td><td>89.0</td><td>88.0</td></tr> <tr><td>30</td><td>89.3</td><td>88.9</td></tr> <tr><td>36</td><td>89.1</td><td>89.3</td></tr> <tr><td>48</td><td>88.4</td><td>90.0</td></tr> <tr><td>60</td><td>87.9</td><td>89.7</td></tr> <tr><td>76</td><td>86.5</td><td>89.3</td></tr> <tr><td>80</td><td>87.1</td><td>89.1</td></tr> </tbody> </table> | Input Voltage [V] | Efficiency [%] | | Load 50% | Load 100% | 17 | 88.2 | 85.5 | 18 | 88.3 | 86.0 | 24 | 89.0 | 88.0 | 30 | 89.3 | 88.9 | 36 | 89.1 | 89.3 | 48 | 88.4 | 90.0 | 60 | 87.9 | 89.7 | 76 | 86.5 | 89.3 | 80 | 87.1 | 89.1 |
| Input Voltage [V] | Efficiency [%] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 88.2 | 85.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 88.3 | 86.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 89.0 | 88.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 89.3 | 88.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | 89.1 | 89.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48 | 88.4 | 90.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | 87.9 | 89.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 76 | 86.5 | 89.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | 87.1 | 89.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| <p>Model MGFS154805</p> | | <p>Temperature 25°C Testing Circuitry Figure A</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------------------|--|-------------------|-------------------|-------------------|--|--|--|-------------------|-------------------|-------------------|-------------------|-------------------|-----|---|---|---|---|---|-----|------|------|------|------|------|-----|------|------|------|------|------|-----|------|------|------|------|------|-----|------|------|------|------|------|-----|------|------|------|------|------|-----|------|------|------|------|------|----|---|---|---|---|---|----|---|---|---|---|---|----|---|---|---|---|---|----|---|---|---|---|---|
| Item | Efficiency (by Load Current) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>1.Graph</p> <p> —△— Input Volt. 18V - - - □ - - Input Volt. 24V - · · * · · Input Volt. 36V - · · ○ · · Input Volt. 48V - - ◇ - - Input Volt. 76V </p> <p> Note: Slanted line shows the range of the rated load current. </p> | | <p>2.Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="5">Efficiency [%]</th> </tr> <tr> <th>Input Volt. 18[V]</th> <th>Input Volt. 24[V]</th> <th>Input Volt. 36[V]</th> <th>Input Volt. 48[V]</th> <th>Input Volt. 76[V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>0.6</td><td>82.6</td><td>81.2</td><td>79.4</td><td>78.7</td><td>74.8</td></tr> <tr><td>1.2</td><td>87.8</td><td>88.0</td><td>87.5</td><td>87.2</td><td>84.8</td></tr> <tr><td>1.8</td><td>88.4</td><td>89.4</td><td>89.7</td><td>89.7</td><td>88.5</td></tr> <tr><td>2.4</td><td>87.5</td><td>88.9</td><td>90.1</td><td>90.2</td><td>89.4</td></tr> <tr><td>3.0</td><td>86.1</td><td>88.1</td><td>89.4</td><td>90.0</td><td>89.4</td></tr> <tr><td>3.3</td><td>85.3</td><td>87.6</td><td>89.1</td><td>89.6</td><td>89.0</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> | Load Current [A] | Efficiency [%] | | | | | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | Input Volt. 48[V] | Input Volt. 76[V] | 0.0 | - | - | - | - | - | 0.6 | 82.6 | 81.2 | 79.4 | 78.7 | 74.8 | 1.2 | 87.8 | 88.0 | 87.5 | 87.2 | 84.8 | 1.8 | 88.4 | 89.4 | 89.7 | 89.7 | 88.5 | 2.4 | 87.5 | 88.9 | 90.1 | 90.2 | 89.4 | 3.0 | 86.1 | 88.1 | 89.4 | 90.0 | 89.4 | 3.3 | 85.3 | 87.6 | 89.1 | 89.6 | 89.0 | -- | - | - | - | - | - | -- | - | - | - | - | - | -- | - | - | - | - | - | -- | - | - | - | - | - |
| Load Current [A] | Efficiency [%] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | Input Volt. 48[V] | Input Volt. 76[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.6 | 82.6 | 81.2 | 79.4 | 78.7 | 74.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | 87.8 | 88.0 | 87.5 | 87.2 | 84.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.8 | 88.4 | 89.4 | 89.7 | 89.7 | 88.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4 | 87.5 | 88.9 | 90.1 | 90.2 | 89.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 86.1 | 88.1 | 89.4 | 90.0 | 89.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3 | 85.3 | 87.6 | 89.1 | 89.6 | 89.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| COSEL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------|--|----------|-------------------|--------------------|--|----------|-----------|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|
| Model | MGFS154805 | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Item | Line Regulation | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +5V3A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>1.Graph</p> <div style="text-align: right;"> <p>---□--- Load 50%</p> <p>—△— Load 100%</p> </div> <p>Note: Slanted line shows the range of the rated input voltage.</p> | | <p>2.Values</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>17</td><td>5.055</td><td>5.053</td></tr> <tr><td>18</td><td>5.055</td><td>5.054</td></tr> <tr><td>24</td><td>5.055</td><td>5.054</td></tr> <tr><td>30</td><td>5.055</td><td>5.054</td></tr> <tr><td>36</td><td>5.055</td><td>5.054</td></tr> <tr><td>48</td><td>5.055</td><td>5.054</td></tr> <tr><td>60</td><td>5.055</td><td>5.054</td></tr> <tr><td>76</td><td>5.055</td><td>5.054</td></tr> <tr><td>80</td><td>5.055</td><td>5.054</td></tr> </tbody> </table> | | Input Voltage [V] | Output Voltage [V] | | Load 50% | Load 100% | 17 | 5.055 | 5.053 | 18 | 5.055 | 5.054 | 24 | 5.055 | 5.054 | 30 | 5.055 | 5.054 | 36 | 5.055 | 5.054 | 48 | 5.055 | 5.054 | 60 | 5.055 | 5.054 | 76 | 5.055 | 5.054 | 80 | 5.055 | 5.054 |
| Input Voltage [V] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 5.055 | 5.053 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 5.055 | 5.054 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 5.055 | 5.054 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 5.055 | 5.054 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | 5.055 | 5.054 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48 | 5.055 | 5.054 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | 5.055 | 5.054 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 76 | 5.055 | 5.054 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | 5.055 | 5.054 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

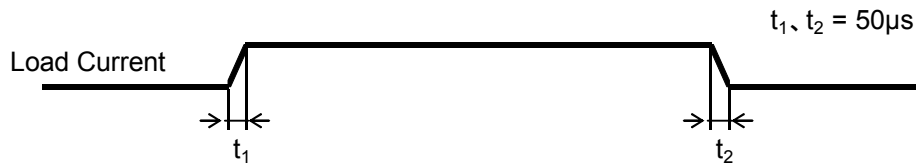


| <p>Model MGFS154805</p> | | <p>Temperature 25°C</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------|--|-------------------|-------------------|--------------------|--|--|--|--|-------------------|-------------------|-------------------|-------------------|-------------------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|----|---|---|---|---|---|----|---|---|---|---|---|----|---|---|---|---|---|----|---|---|---|---|---|
| <p>Item Load Regulation</p> | | <p>Testing Circuitry Figure A</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Object +5V3A</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>1.Graph</p> <p> —△— Input Volt. 18V ---□--- Input Volt. 24V -·-·*·-·- Input Volt. 36V -·-·○-·-·- Input Volt. 48V ---◇--- Input Volt. 76V </p> <p>Output Voltage [V]</p> <p>Load Current [A]</p> | | <p>2.Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="5">Output Voltage [V]</th> </tr> <tr> <th>Input Volt. 18[V]</th> <th>Input Volt. 24[V]</th> <th>Input Volt. 36[V]</th> <th>Input Volt. 48[V]</th> <th>Input Volt. 76[V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>5.056</td><td>5.056</td><td>5.055</td><td>5.055</td><td>5.055</td></tr> <tr><td>0.6</td><td>5.056</td><td>5.056</td><td>5.055</td><td>5.055</td><td>5.055</td></tr> <tr><td>1.2</td><td>5.055</td><td>5.055</td><td>5.055</td><td>5.055</td><td>5.055</td></tr> <tr><td>1.8</td><td>5.055</td><td>5.055</td><td>5.055</td><td>5.055</td><td>5.054</td></tr> <tr><td>2.4</td><td>5.054</td><td>5.054</td><td>5.054</td><td>5.054</td><td>5.054</td></tr> <tr><td>3.0</td><td>5.054</td><td>5.054</td><td>5.054</td><td>5.054</td><td>5.054</td></tr> <tr><td>3.3</td><td>5.053</td><td>5.054</td><td>5.053</td><td>5.053</td><td>5.053</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> | | Load Current [A] | Output Voltage [V] | | | | | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | Input Volt. 48[V] | Input Volt. 76[V] | 0.0 | 5.056 | 5.056 | 5.055 | 5.055 | 5.055 | 0.6 | 5.056 | 5.056 | 5.055 | 5.055 | 5.055 | 1.2 | 5.055 | 5.055 | 5.055 | 5.055 | 5.055 | 1.8 | 5.055 | 5.055 | 5.055 | 5.055 | 5.054 | 2.4 | 5.054 | 5.054 | 5.054 | 5.054 | 5.054 | 3.0 | 5.054 | 5.054 | 5.054 | 5.054 | 5.054 | 3.3 | 5.053 | 5.054 | 5.053 | 5.053 | 5.053 | -- | - | - | - | - | - | -- | - | - | - | - | - | -- | - | - | - | - | - | -- | - | - | - | - | - |
| Load Current [A] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | Input Volt. 48[V] | Input Volt. 76[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 5.056 | 5.056 | 5.055 | 5.055 | 5.055 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.6 | 5.056 | 5.056 | 5.055 | 5.055 | 5.055 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | 5.055 | 5.055 | 5.055 | 5.055 | 5.055 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.8 | 5.055 | 5.055 | 5.055 | 5.055 | 5.054 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4 | 5.054 | 5.054 | 5.054 | 5.054 | 5.054 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 5.054 | 5.054 | 5.054 | 5.054 | 5.054 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3 | 5.053 | 5.054 | 5.053 | 5.053 | 5.053 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Note: Slanted line shows the range of the rated load current.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

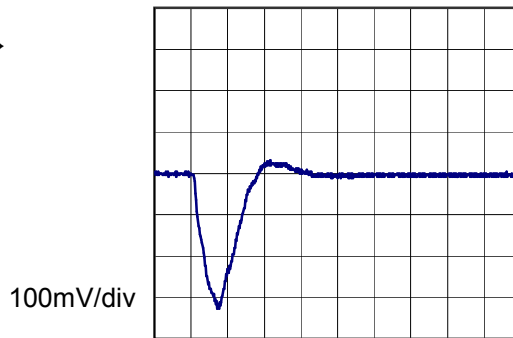


| | | |
|--------|-----------------------|--|
| Model | MGFS154805 | Temperature 25°C Testing Circuitry Figure A |
| Item | Dynamic Load Response | |
| Object | +5V3A | |

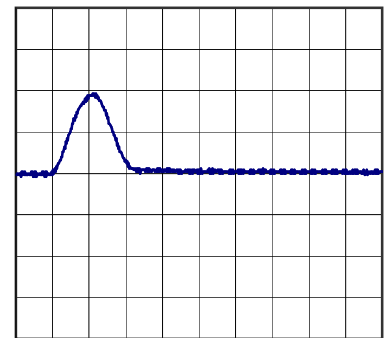
Input Volt. 48 V
Cycle 1000 ms



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

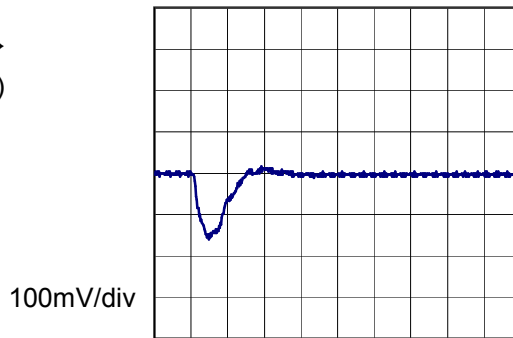


50µs/div

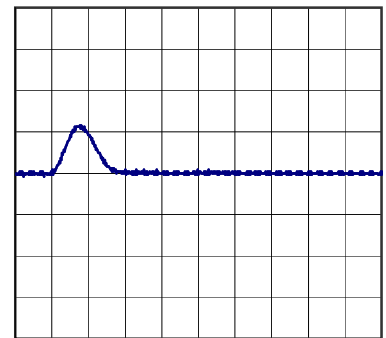


50µs/div

Min. Load (0A) \longleftrightarrow
Load 50% (1.5A)

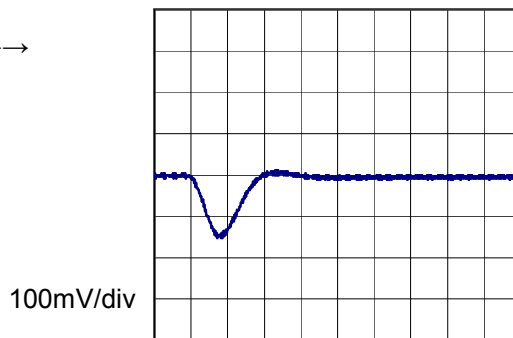


50µs/div

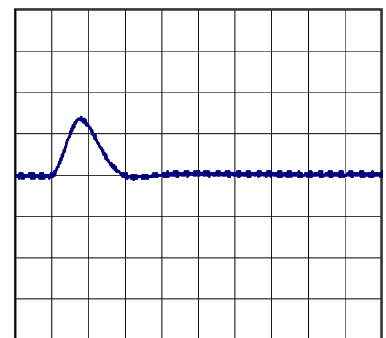


50µs/div

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



50µs/div

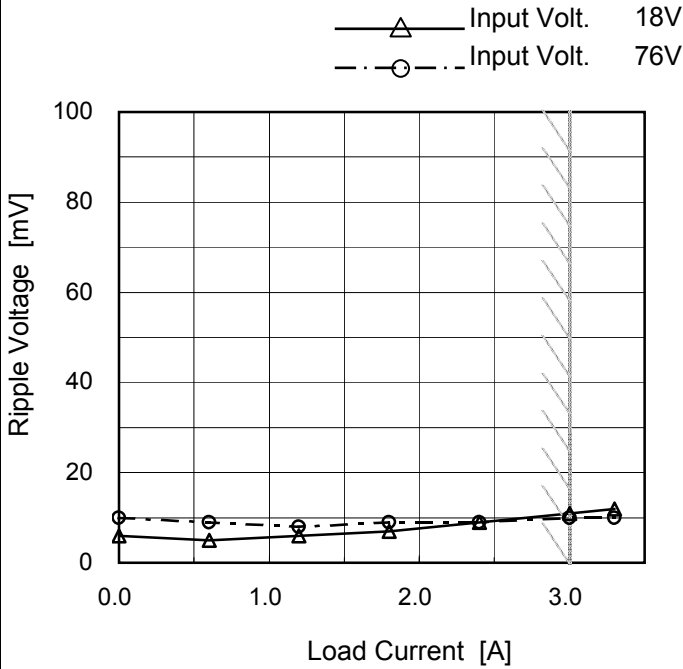


50µs/div

| <p>Model MGFS154805</p> | | <p>Temperature 25°C Testing Circuitry Figure B</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------------|--|------------------|---------------------|--|--------------------|--------------------|-----|---|---|-----|---|---|-----|---|---|-----|---|---|-----|---|---|-----|---|---|-----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|
| <p>Item Ripple Voltage (by Load Current)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Object +5V3A</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>1.Graph</p> <div style="text-align: right;"> <p>—△— Input Volt. 18V</p> <p>- -○- - Input Volt. 76V</p> </div> <p>Ripple Voltage [mV]</p> <p>Load Current [A]</p> | | <p>2.Values</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. 18 [V]</th> <th>Input Volt. 76 [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>4</td><td>7</td></tr> <tr><td>0.6</td><td>4</td><td>7</td></tr> <tr><td>1.2</td><td>4</td><td>7</td></tr> <tr><td>1.8</td><td>5</td><td>8</td></tr> <tr><td>2.4</td><td>5</td><td>8</td></tr> <tr><td>3.0</td><td>7</td><td>9</td></tr> <tr><td>3.3</td><td>8</td><td>9</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. 18 [V] | Input Volt. 76 [V] | 0.0 | 4 | 7 | 0.6 | 4 | 7 | 1.2 | 4 | 7 | 1.8 | 5 | 8 | 2.4 | 5 | 8 | 3.0 | 7 | 9 | 3.3 | 8 | 9 | -- | - | - | -- | - | - | -- | - | - | -- | - | - |
| Load Current [A] | Ripple Voltage [mV] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 18 [V] | Input Volt. 76 [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 4 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.6 | 4 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | 4 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.8 | 5 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4 | 5 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 7 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3 | 8 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Measured by 100 MHz Oscilloscope. Ripple Voltage is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Ripple [mVp-p]</p> <p>Fig.Complex Ripple Wave Form</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | |
|--------|--------------|-------------------|----------|
| Model | MGFS154805 | Temperature | 25°C |
| Item | Ripple-Noise | Testing Circuitry | Figure B |
| Object | +5V3A | | |

1. Graph



2. Values

| Load Current [A] | Ripple-Noise [mV] | |
|------------------|--------------------|--------------------|
| | Input Volt. 18 [V] | Input Volt. 76 [V] |
| 0.0 | 6 | 10 |
| 0.6 | 5 | 9 |
| 1.2 | 6 | 8 |
| 1.8 | 7 | 9 |
| 2.4 | 9 | 9 |
| 3.0 | 11 | 10 |
| 3.3 | 12 | 10 |
| -- | - | - |
| -- | - | - |
| -- | - | - |
| -- | - | - |

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.

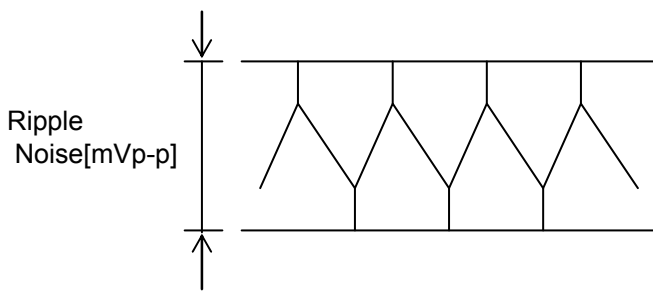
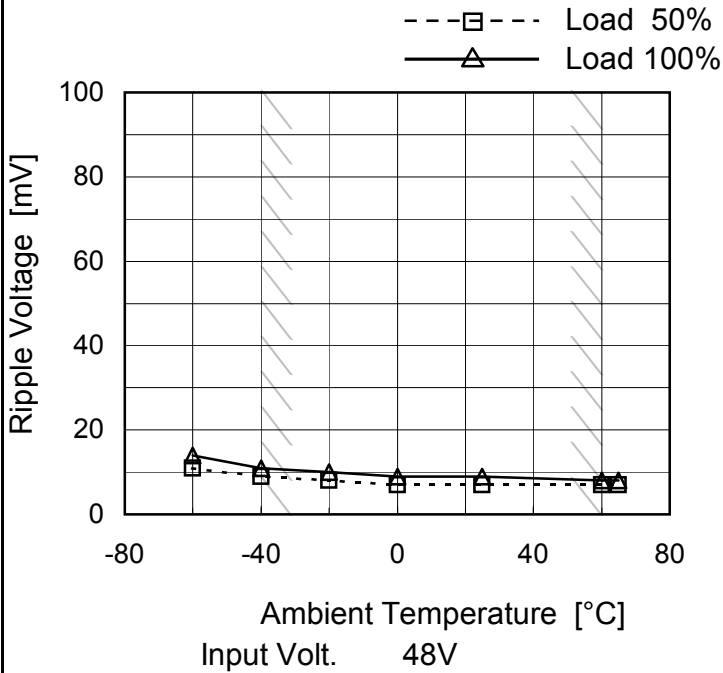


Fig. Complex Ripple Noise Wave Form

| | |
|--------|-----------------------------------|
| Model | MGFS154805 |
| Item | Ripple Voltage (by Ambient Temp.) |
| Object | +5V3A |

Testing Circuitry Figure B

1. Graph



2. Values

| Ambient Temperature [°C] | Ripple Voltage [mV] | |
|--------------------------|---------------------|-----------|
| | Load 50% | Load 100% |
| -60 | 11 | 14 |
| -40 | 9 | 11 |
| -20 | 8 | 10 |
| 0 | 7 | 9 |
| 25 | 7 | 9 |
| 60 | 7 | 8 |
| 65 | 7 | 8 |
| -- | - | - |
| -- | - | - |
| -- | - | - |
| -- | - | - |

Measured by 100 MHz Oscilloscope.
 Note: Slanted line shows the range of the rated ambient temperature.



| COSEL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|-------------------|-------------------|-------------------|--|--------------------------|--------------------|--|--|--|--|-------------------|-------------------|-------------------|-------------------|-------------------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|---|-------|-------|-------|-------|-------|----|-------|-------|-------|-------|-------|----|-------|-------|-------|-------|-------|----|-------|-------|-------|-------|-------|----|---|---|---|---|---|----|---|---|---|---|---|----|---|---|---|---|---|----|---|---|---|---|---|
| Model | MGFS154805 | Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Item | Ambient Temperature Drift | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +5V3A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | <p>—△— Input Volt. 18V</p> <p>---□--- Input Volt. 24V</p> <p>---*--- Input Volt. 36V</p> <p>---○--- Input Volt. 48V</p> <p>---◇--- Input Volt. 76V</p> | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p style="text-align: center;">Ambient Temperature [°C]</p> <p style="text-align: right;">Load 100%</p> <p>Note: Slanted line shows the range of the rated ambient temperature.</p> | | <table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th> <th colspan="5">Output Voltage [V]</th> </tr> <tr> <th>Input Volt. 18[V]</th> <th>Input Volt. 24[V]</th> <th>Input Volt. 36[V]</th> <th>Input Volt. 48[V]</th> <th>Input Volt. 76[V]</th> </tr> </thead> <tbody> <tr><td>-60</td><td>5.012</td><td>5.012</td><td>5.013</td><td>5.013</td><td>5.013</td></tr> <tr><td>-40</td><td>5.025</td><td>5.026</td><td>5.026</td><td>5.026</td><td>5.026</td></tr> <tr><td>-20</td><td>5.037</td><td>5.037</td><td>5.037</td><td>5.037</td><td>5.037</td></tr> <tr><td>0</td><td>5.045</td><td>5.046</td><td>5.046</td><td>5.046</td><td>5.046</td></tr> <tr><td>25</td><td>5.053</td><td>5.053</td><td>5.053</td><td>5.053</td><td>5.053</td></tr> <tr><td>60</td><td>5.058</td><td>5.058</td><td>5.058</td><td>5.058</td><td>5.058</td></tr> <tr><td>65</td><td>5.058</td><td>5.058</td><td>5.058</td><td>5.058</td><td>5.058</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>--</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> | | | | | Ambient Temperature [°C] | Output Voltage [V] | | | | | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | Input Volt. 48[V] | Input Volt. 76[V] | -60 | 5.012 | 5.012 | 5.013 | 5.013 | 5.013 | -40 | 5.025 | 5.026 | 5.026 | 5.026 | 5.026 | -20 | 5.037 | 5.037 | 5.037 | 5.037 | 5.037 | 0 | 5.045 | 5.046 | 5.046 | 5.046 | 5.046 | 25 | 5.053 | 5.053 | 5.053 | 5.053 | 5.053 | 60 | 5.058 | 5.058 | 5.058 | 5.058 | 5.058 | 65 | 5.058 | 5.058 | 5.058 | 5.058 | 5.058 | -- | - | - | - | - | - | -- | - | - | - | - | - | -- | - | - | - | - | - | -- | - | - | - | - | - |
| Ambient Temperature [°C] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | Input Volt. 48[V] | Input Volt. 76[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -60 | 5.012 | 5.012 | 5.013 | 5.013 | 5.013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -40 | 5.025 | 5.026 | 5.026 | 5.026 | 5.026 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -20 | 5.037 | 5.037 | 5.037 | 5.037 | 5.037 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 5.045 | 5.046 | 5.046 | 5.046 | 5.046 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 5.053 | 5.053 | 5.053 | 5.053 | 5.053 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | 5.058 | 5.058 | 5.058 | 5.058 | 5.058 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | 5.058 | 5.058 | 5.058 | 5.058 | 5.058 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| | | |
|--------------|-------------------------|----------------------------|
| COSEL | | |
| Model | MGFS154805 | |
| Item | Output Voltage Accuracy | Testing Circuitry Figure A |
| Object | +5V3A | |

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 - 60°C

Input Voltage : 18 - 76V

Load Current : 0 - 3A

* 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 | 60 | 18 | 0 | 5.060 | ±18 | ±0.4 |
| Minimum Voltage | -40 | 18 | 3 | 5.025 | | |



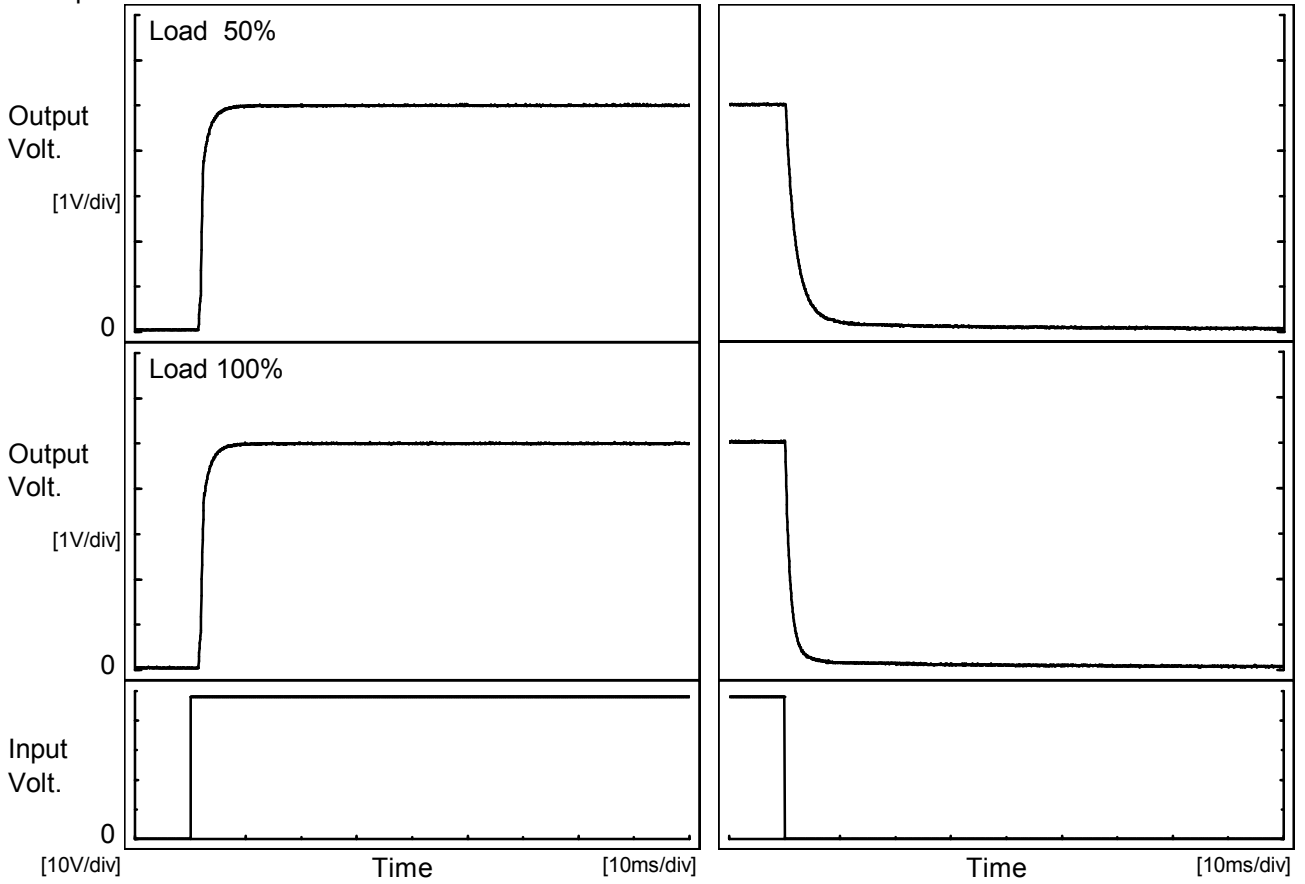
| COSEL | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------|--|----------------------|--------------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| Model | MGFS154805 | | | | | | | | | | | | | | | | | | | | | | | |
| Item | Time Lapse Drift | Temperature 25°C Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | |
| Object | +5V3A | | | | | | | | | | | | | | | | | | | | | | | |
| <p>1.Graph</p> <p style="text-align: center;">Time [H]</p> <p>Input Volt. 48V Load 100%</p> | | <p>2.Values</p> <table border="1"> <thead> <tr> <th>Time since start [H]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>5.052</td></tr> <tr><td>0.5</td><td>5.054</td></tr> <tr><td>1.0</td><td>5.054</td></tr> <tr><td>2.0</td><td>5.054</td></tr> <tr><td>3.0</td><td>5.054</td></tr> <tr><td>4.0</td><td>5.054</td></tr> <tr><td>5.0</td><td>5.054</td></tr> <tr><td>6.0</td><td>5.054</td></tr> <tr><td>7.0</td><td>5.054</td></tr> <tr><td>8.0</td><td>5.054</td></tr> </tbody> </table> | Time since start [H] | Output Voltage [V] | 0.0 | 5.052 | 0.5 | 5.054 | 1.0 | 5.054 | 2.0 | 5.054 | 3.0 | 5.054 | 4.0 | 5.054 | 5.0 | 5.054 | 6.0 | 5.054 | 7.0 | 5.054 | 8.0 | 5.054 |
| Time since start [H] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 5.052 | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 | 5.054 | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0 | 5.054 | | | | | | | | | | | | | | | | | | | | | | | |
| 2.0 | 5.054 | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 5.054 | | | | | | | | | | | | | | | | | | | | | | | |
| 4.0 | 5.054 | | | | | | | | | | | | | | | | | | | | | | | |
| 5.0 | 5.054 | | | | | | | | | | | | | | | | | | | | | | | |
| 6.0 | 5.054 | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0 | 5.054 | | | | | | | | | | | | | | | | | | | | | | | |
| 8.0 | 5.054 | | | | | | | | | | | | | | | | | | | | | | | |



| | | | | |
|--------|--|--------------------|-------------------|----------|
| Model | | MGFS154805 | Temperature | 25°C |
| Item | | Rise and Fall Time | Testing Circuitry | Figure A |
| Object | | +5V3A | | |

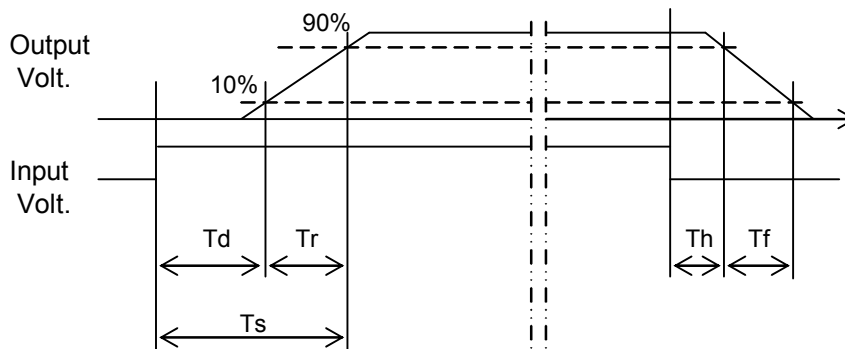
1. Graph

Input Volt. 48 V



2. Values

| | | [ms] | | | | |
|-------------|------|------|-----|-----|-----|-----|
| Load \ Time | Time | Td | Tr | Ts | Th | Tf |
| 50 % | | 1.7 | 2.0 | 3.7 | 0.3 | 4.8 |
| 100 % | | 1.7 | 2.1 | 3.8 | 0.2 | 2.5 |

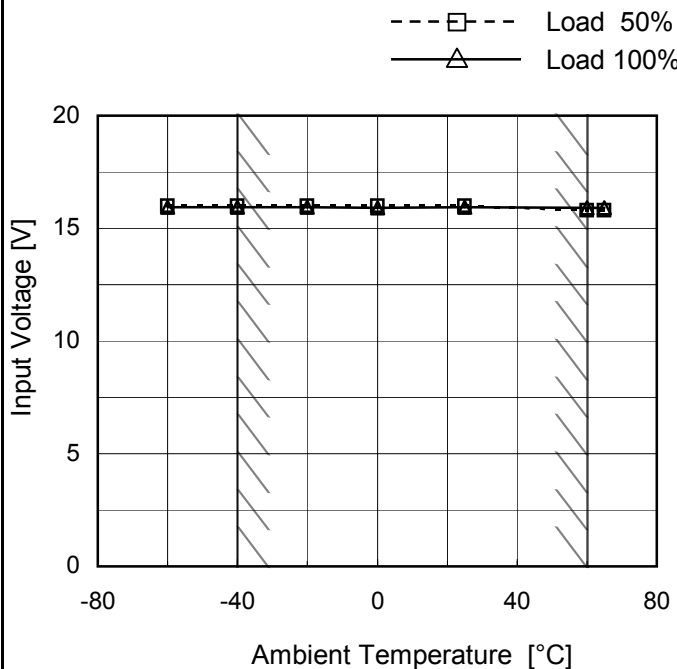




| | |
|--------|--|
| Model | MGFS154805 |
| Item | Minimum Input Voltage for Regulated Output Voltage |
| Object | +5V3A |

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% |
| -60 | 16.0 | 16.0 |
| -40 | 16.0 | 16.0 |
| -20 | 16.0 | 16.0 |
| 0 | 16.0 | 16.0 |
| 25 | 16.0 | 16.0 |
| 60 | 15.8 | 16.0 |
| 65 | 15.8 | 16.0 |
| -- | - | - |
| -- | - | - |
| -- | - | - |
| -- | - | - |



| COSEL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------------|--|-------------------|-------------------|-------------------|--|--------------------|------------------|--|--|--|--|-------------------|-------------------|-------------------|-------------------|-------------------|------|-------|-------|-------|-------|-------|------|---|---|---|---|---|------|---|---|---|---|---|------|---|---|---|---|---|------|---|---|---|---|---|------|---|---|---|---|---|------|---|---|---|---|---|------|---|---|---|---|---|------|---|---|---|---|---|------|---|---|---|---|---|------|---|---|---|---|---|------|---|---|---|---|---|
| Model | MGFS154805 | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Item | Overcurrent Protection | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +5V3A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>1.Graph</p> <p> —△ Input Volt. 18V —□ Input Volt. 24V —* Input Volt. 36V —○ Input Volt. 48V —◇ Input Volt. 76V </p> <p style="text-align: center;">Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p> <p>Intermittent operation occurs when overcurrent protection is activated.</p> | | <p>2.Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Output Voltage [V]</th> <th colspan="5">Load Current [A]</th> </tr> <tr> <th>Input Volt. 18[V]</th> <th>Input Volt. 24[V]</th> <th>Input Volt. 36[V]</th> <th>Input Volt. 48[V]</th> <th>Input Volt. 76[V]</th> </tr> </thead> <tbody> <tr> <td>5.00</td> <td>3.796</td> <td>4.116</td> <td>4.428</td> <td>4.482</td> <td>4.168</td> </tr> <tr> <td>4.75</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>4.50</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>4.00</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>3.50</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>3.00</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>2.50</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>2.00</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>1.50</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>1.00</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>0.50</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>0.00</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> | | | | | Output Voltage [V] | Load Current [A] | | | | | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | Input Volt. 48[V] | Input Volt. 76[V] | 5.00 | 3.796 | 4.116 | 4.428 | 4.482 | 4.168 | 4.75 | - | - | - | - | - | 4.50 | - | - | - | - | - | 4.00 | - | - | - | - | - | 3.50 | - | - | - | - | - | 3.00 | - | - | - | - | - | 2.50 | - | - | - | - | - | 2.00 | - | - | - | - | - | 1.50 | - | - | - | - | - | 1.00 | - | - | - | - | - | 0.50 | - | - | - | - | - | 0.00 | - | - | - | - | - |
| Output Voltage [V] | Load Current [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 18[V] | Input Volt. 24[V] | Input Volt. 36[V] | Input Volt. 48[V] | Input Volt. 76[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.00 | 3.796 | 4.116 | 4.428 | 4.482 | 4.168 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.75 | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.50 | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.00 | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.50 | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.00 | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.50 | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.00 | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.50 | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.00 | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.50 | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

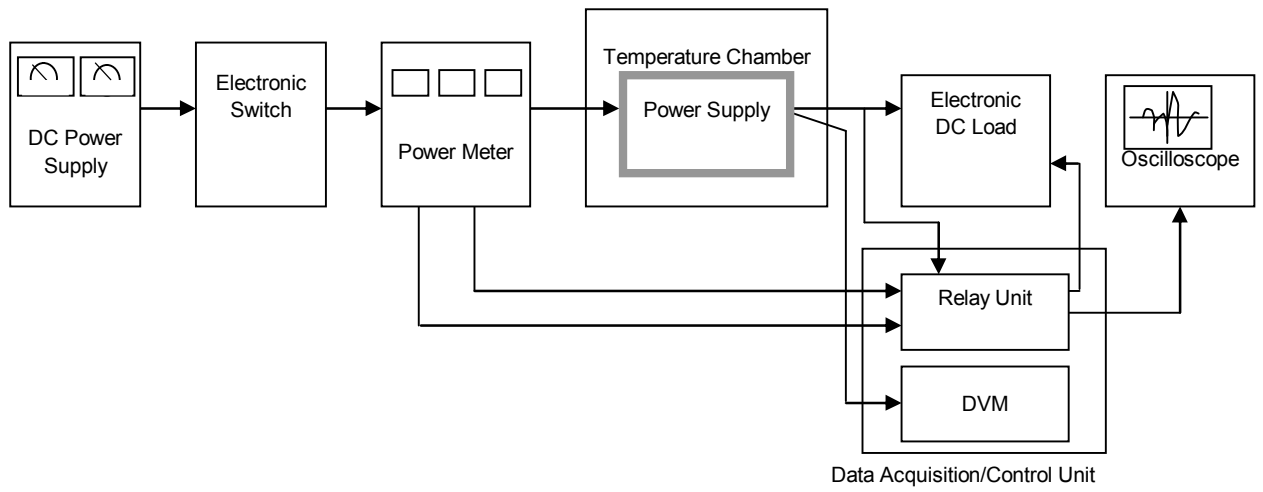


Figure A

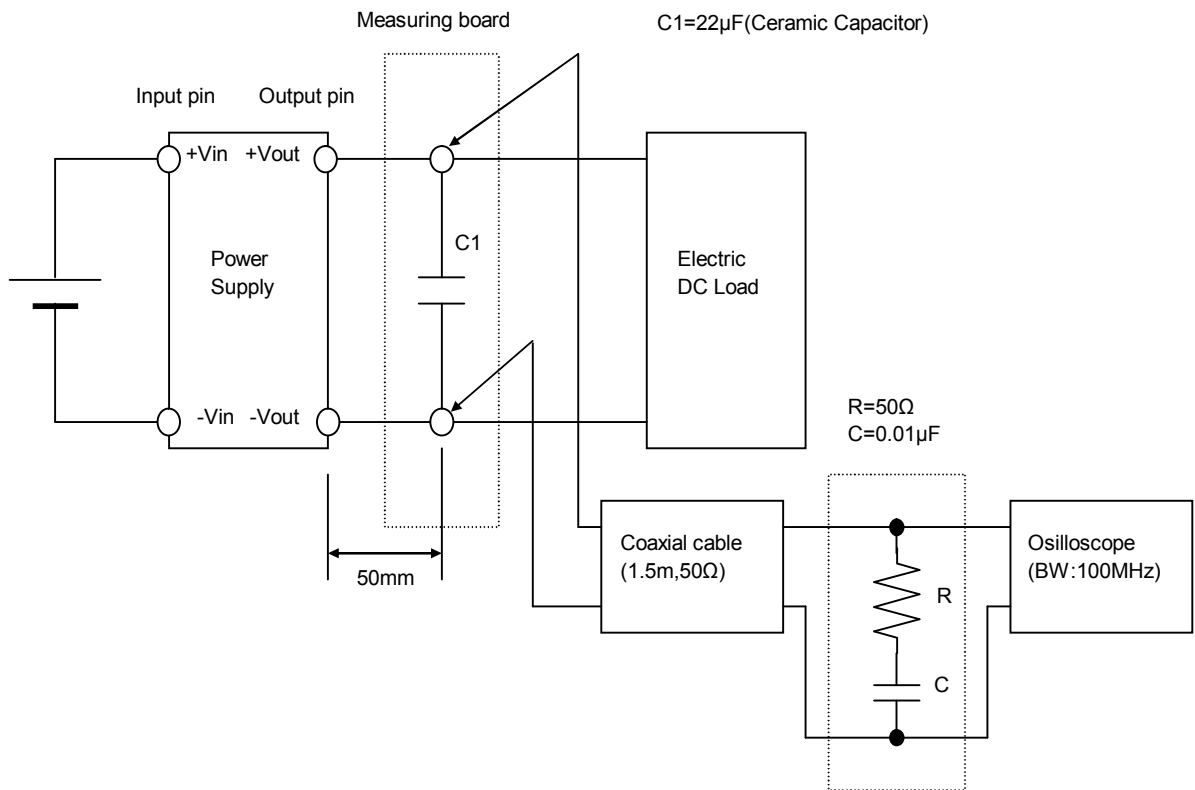


Figure B (Ripple and Ripple noise Characteristic)