



TEST DATA OF SUW101215 SUCW101215

Regulated DC Power Supply
Mar 24, 2005

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COSEL CO.,LTD.

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|--------|----------------------------------|
| Model | SUW101215/SUCW101215 |
| Item | Input Current (by Input Voltage) |
| Object | _____ |

1.Graph

—△—

Load 100%

---□---

Load 50%

-·-○-·-

Load 0%

The graph plots Input Current [A] on the y-axis (0.0 to 5.0) against Input Voltage [V] on the x-axis (0 to 20). Three data series are shown: Load 100% (solid line with triangles), Load 50% (dashed line with squares), and Load 0% (dash-dot line with circles). The 100% load curve starts at 0A, rises to a peak of ~2.0A at 6V, and then gradually declines to ~0.6A at 20V. The 50% and 0% load curves remain near 0A until ~6V, then rise to ~0.4A and ~0.1A respectively at 20V. Two vertical slanted lines are drawn at approximately 10V and 18V, indicating the rated input voltage range.

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

Temperature

25°C

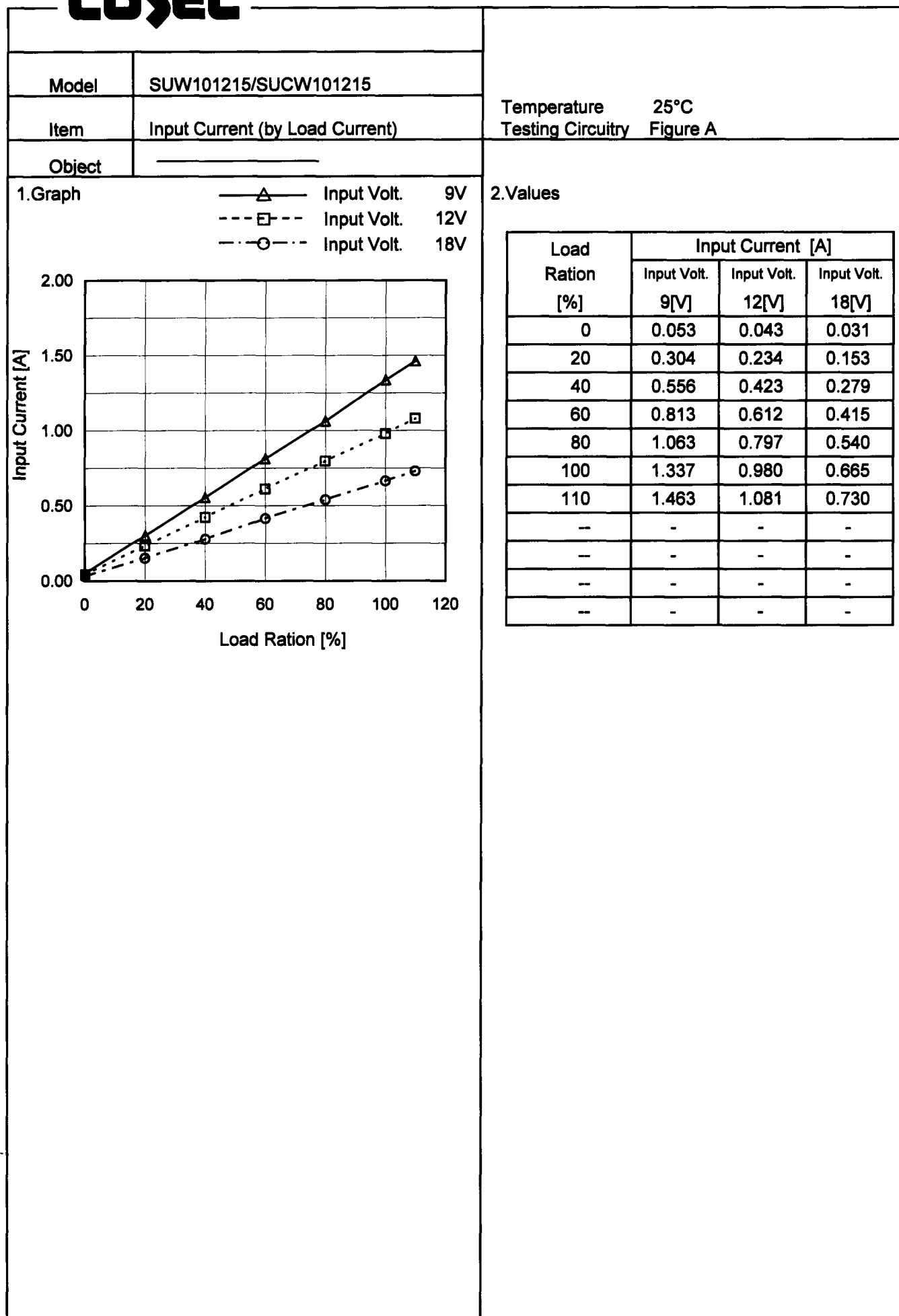
Testing Circuitry

Figure A

2.Values

| Input Voltage [V] | Input Current [A] | | |
|-------------------|-------------------|----------|-----------|
| | Load 0% | Load 50% | Load 100% |
| 0.0 | 0.000 | 0.000 | 0.000 |
| 2.0 | 0.000 | 0.000 | 0.000 |
| 4.0 | 0.000 | 0.000 | 0.000 |
| 4.2 | 0.000 | 0.000 | 0.000 |
| 4.8 | 0.000 | 0.000 | 0.001 |
| 5.4 | 0.072 | 1.122 | 1.480 |
| 6.0 | 0.068 | 1.003 | 1.977 |
| 6.2 | 0.067 | 0.986 | 1.989 |
| 8.0 | 0.058 | 0.781 | 1.506 |
| 9.0 | 0.053 | 0.690 | 1.347 |
| 10.0 | 0.049 | 0.615 | 1.203 |
| 12.0 | 0.043 | 0.514 | 0.997 |
| 14.0 | 0.038 | 0.445 | 0.870 |
| 16.0 | 0.034 | 0.390 | 0.756 |
| 18.0 | 0.031 | 0.346 | 0.675 |
| 20.0 | 0.029 | 0.311 | 0.607 |
| -- | - | - | - |
| -- | - | - | - |

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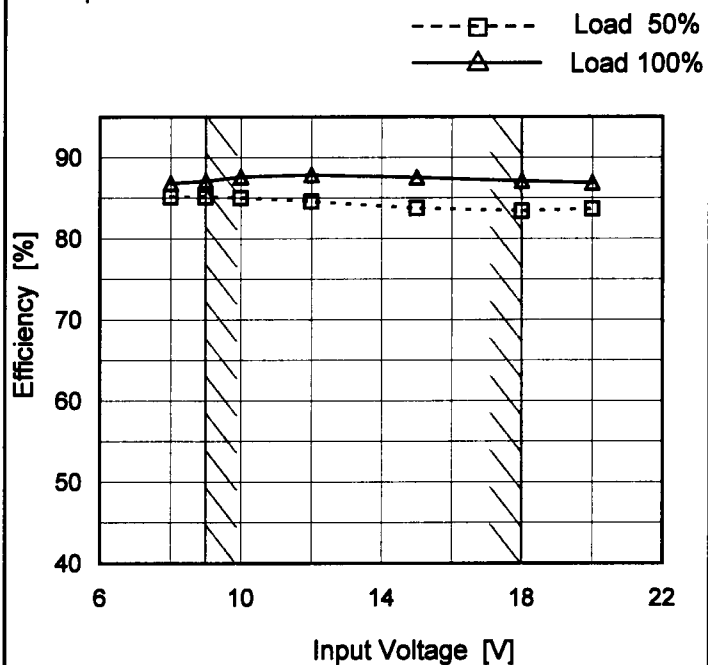
Model SUW101215/SUCW101215

Item Efficiency (by Input Voltage)

Object

Temperature 25°C
Testing Circuitry Figure A

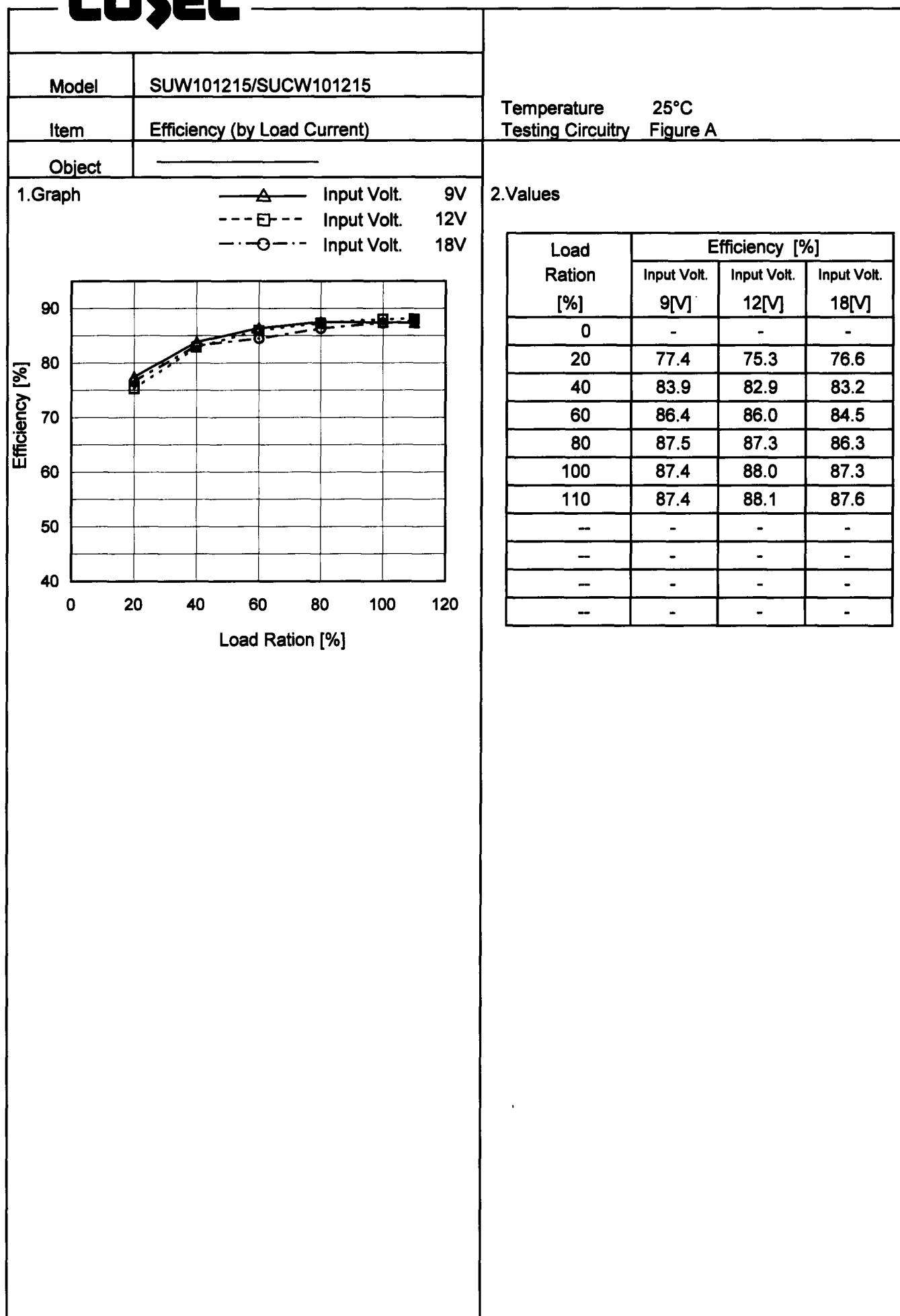
1. Graph



2. Values

| Input Voltage [V] | Efficiency [%] | |
|-------------------|----------------|-----------|
| | Load 50% | Load 100% |
| 8 | 85.1 | 86.8 |
| 9 | 85.1 | 87.1 |
| 10 | 85.0 | 87.6 |
| 12 | 84.6 | 87.8 |
| 15 | 83.8 | 87.5 |
| 18 | 83.4 | 87.1 |
| 20 | 83.7 | 86.9 |
| — | — | — |
| — | — | — |

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| Model | | SUW101215/SUCW101215 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------|----------------------|--------------------|--|----------|-----------|---|---------|---------|---|---------|---------|----|---------|---------|----|---------|---------|----|---------|---------|----|---------|---------|----|---------|---------|----|---|---|----|---|---|--|--|
| Item | | Line Regulation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | +15V0.35A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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> <table><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>8</td><td>15.003</td><td>14.891</td></tr><tr><td>9</td><td>14.997</td><td>14.890</td></tr><tr><td>10</td><td>14.992</td><td>14.890</td></tr><tr><td>12</td><td>14.985</td><td>14.890</td></tr><tr><td>15</td><td>14.979</td><td>14.890</td></tr><tr><td>18</td><td>14.975</td><td>14.891</td></tr><tr><td>20</td><td>14.973</td><td>14.890</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table> | | Input Voltage [V] | Output Voltage [V] | | Load 50% | Load 100% | 8 | 15.003 | 14.891 | 9 | 14.997 | 14.890 | 10 | 14.992 | 14.890 | 12 | 14.985 | 14.890 | 15 | 14.979 | 14.890 | 18 | 14.975 | 14.891 | 20 | 14.973 | 14.890 | -- | - | - | -- | - | - | | |
| Input Voltage [V] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 15.003 | 14.891 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 14.997 | 14.890 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 14.992 | 14.890 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 14.985 | 14.890 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 14.979 | 14.890 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 14.975 | 14.891 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 14.973 | 14.890 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | -15V0.35A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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> <table><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>8</td><td>-15.006</td><td>-14.893</td></tr><tr><td>9</td><td>-15.000</td><td>-14.893</td></tr><tr><td>10</td><td>-14.995</td><td>-14.893</td></tr><tr><td>12</td><td>-14.988</td><td>-14.893</td></tr><tr><td>15</td><td>-14.982</td><td>-14.892</td></tr><tr><td>18</td><td>-14.978</td><td>-14.893</td></tr><tr><td>20</td><td>-14.976</td><td>-14.893</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table> | | Input Voltage [V] | Output Voltage [V] | | Load 50% | Load 100% | 8 | -15.006 | -14.893 | 9 | -15.000 | -14.893 | 10 | -14.995 | -14.893 | 12 | -14.988 | -14.893 | 15 | -14.982 | -14.892 | 18 | -14.978 | -14.893 | 20 | -14.976 | -14.893 | -- | - | - | -- | - | - | | |
| Input Voltage [V] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | -15.006 | -14.893 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | -15.000 | -14.893 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | -14.995 | -14.893 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | -14.988 | -14.893 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | -14.982 | -14.892 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | -14.978 | -14.893 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | -14.976 | -14.893 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note: Slanted line shows the range of the rated input voltage. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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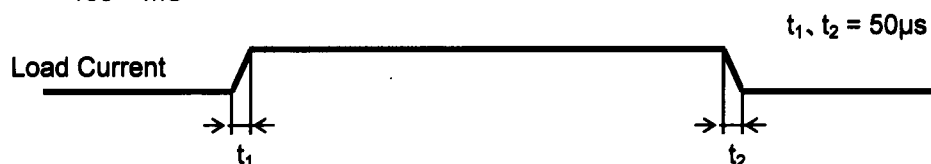
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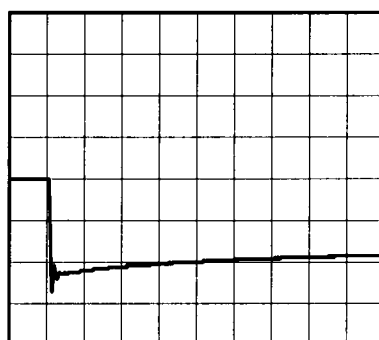
| | | | |
|--------|-----------------------|-------------------|----------|
| Model | SUW101215/SUCW101215 | Temperature | 25°C |
| Item | Dynamic Load Response | Testing Circuitry | Figure A |
| Object | +15V0.35A | | |

Input Volt. 12 V
Cycle 100 mS



Min. Load (0A) \longleftrightarrow
Load 100% (0.35A)

200mV/div



500µs/div



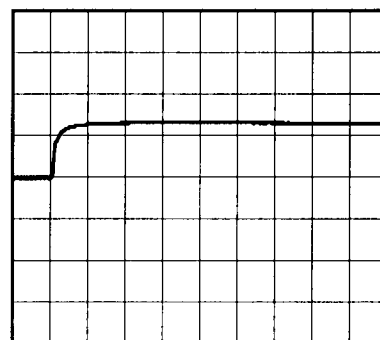
500µs/div

Min. Load (0A) \longleftrightarrow
Load 50% (0.175A)

200mV/div



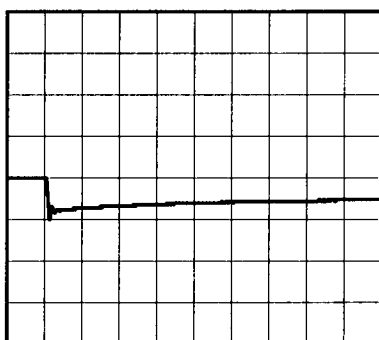
500µs/div



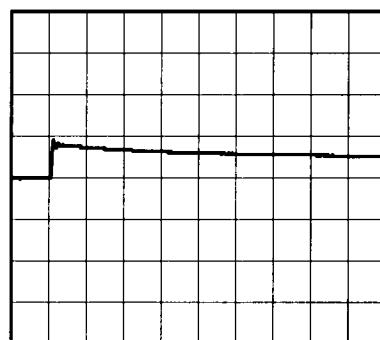
500µs/div

Load 50% (0.175A) \longleftrightarrow
Load 100% (0.35A)

200mV/div



500µs/div



500µs/div

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| | | | |
|--------|-----------------------|-------------------|----------|
| Model | SUW101215/SUCW101215 | Temperature | 25°C |
| Item | Dynamic Load Response | Testing Circuitry | Figure A |
| Object | -15V0.35A | | |

Input Volt. 12 V
Cycle 100 mS

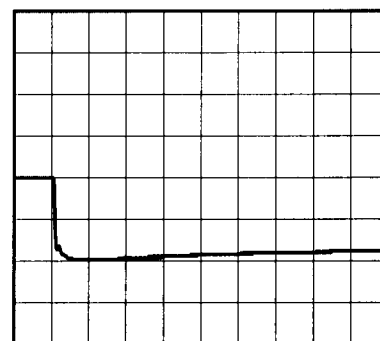


Min. Load (0A) \longleftrightarrow
Load 100% (0.35A)

200mV/div



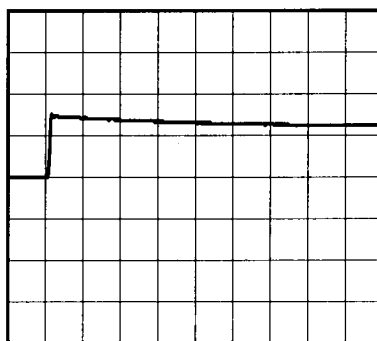
500µs/div



500µs/div

Min. Load (0A) \longleftrightarrow
Load 50% (0.175A)

200mV/div



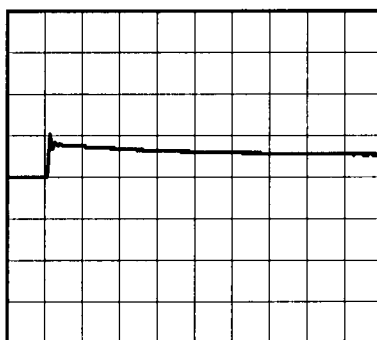
500µs/div



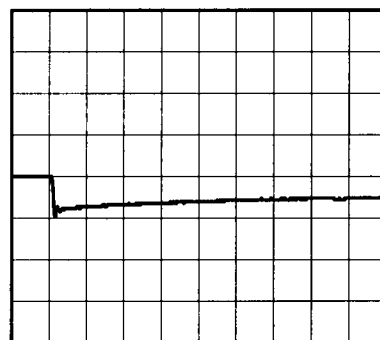
500µs/div

Load 50% (0.175A) \longleftrightarrow
Load 100% (0.35A)

200mV/div



500µs/div



500µs/div

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| Model | SUW101215/SUCW101215 | Temperature 25°C Testing Circuitry Figure B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------------------------|--|--|------------------|---------------------|--|-------------------|--------------------|-------|---|---|-------|---|---|-------|---|---|-------|---|---|-------|---|---|-------|---|---|-------|---|---|----|---|---|----|---|---|----|---|---|----|---|---|
| Item | Ripple Voltage (by Load Current) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +15V0.35A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div><div></div><div>—△—</div><div>Input Volt.</div><div>9V</div></div><div><div></div><div>- - -○- - -</div><div>Input Volt.</div><div>18V</div></div></div><div><p>Ripple Voltage [mV]</p><p>Load Current [A]</p></div></div> | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 9 [V]</th><th>Input Volt. 18 [V]</th></tr><tr><td>0.000</td><td>2</td><td>2</td></tr><tr><td>0.070</td><td>2</td><td>2</td></tr><tr><td>0.140</td><td>2</td><td>2</td></tr><tr><td>0.210</td><td>3</td><td>3</td></tr><tr><td>0.280</td><td>4</td><td>3</td></tr><tr><td>0.350</td><td>5</td><td>3</td></tr><tr><td>0.385</td><td>5</td><td>4</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table> | | Load Current [A] | Ripple Voltage [mV] | | Input Volt. 9 [V] | Input Volt. 18 [V] | 0.000 | 2 | 2 | 0.070 | 2 | 2 | 0.140 | 2 | 2 | 0.210 | 3 | 3 | 0.280 | 4 | 3 | 0.350 | 5 | 3 | 0.385 | 5 | 4 | -- | - | - | -- | - | - | -- | - | - | -- | - | - |
| Load Current [A] | Ripple Voltage [mV] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 9 [V] | Input Volt. 18 [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.000 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.070 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.140 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.210 | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.280 | 4 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.350 | 5 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.385 | 5 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Measured by 100 MHz Oscilloscope.</p> <p>Ripple Voltage is shown as p-p in the figure below.</p> <p>Note: Slanted line shows the range of the rated load current.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><p>Ripple [mVp-p]</p><p>Fig.Complex Ripple Wave Form</p></div></div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|--|----------------------------------|--|----------------------------|--|
| Model | | SUW101215/SUCW101215 | | Temperature 25°C | |
| Item | | Ripple Voltage (by Load Current) | | Testing Circuitry Figure B | |
| Object | | -15V0.35A | | | |
| 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><div><div></div><div></div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <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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COSEL

| Model | SUW101215/SUCW101215 | Temperature 25°C Testing Circuitry Figure B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------------|--|--|------------------|-------------------|--|-------------------|--------------------|-------|---|---|-------|---|---|-------|---|---|-------|---|---|-------|---|---|-------|---|---|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | Ripple-Noise | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +15V0.35A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div>—△—</div><div>Input Volt. 9V</div></div><div><div>- - -○- - -</div><div>Input Volt. 18V</div></div></div> <p>Ripple-Noise [mV]</p> <p>Load Current [A]</p> | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple-Noise [mV]</th></tr><tr><th>Input Volt. 9 [V]</th><th>Input Volt. 18 [V]</th></tr><tr><td>0.000</td><td>4</td><td>4</td></tr><tr><td>0.070</td><td>4</td><td>4</td></tr><tr><td>0.140</td><td>5</td><td>4</td></tr><tr><td>0.210</td><td>6</td><td>5</td></tr><tr><td>0.280</td><td>6</td><td>6</td></tr><tr><td>0.350</td><td>7</td><td>6</td></tr><tr><td>0.385</td><td>8</td><td>7</td></tr><tr><td>—</td><td>-</td><td>-</td></tr><tr><td>—</td><td>-</td><td>-</td></tr><tr><td>—</td><td>-</td><td>-</td></tr><tr><td>—</td><td>-</td><td>-</td></tr></table> | | Load Current [A] | Ripple-Noise [mV] | | Input Volt. 9 [V] | Input Volt. 18 [V] | 0.000 | 4 | 4 | 0.070 | 4 | 4 | 0.140 | 5 | 4 | 0.210 | 6 | 5 | 0.280 | 6 | 6 | 0.350 | 7 | 6 | 0.385 | 8 | 7 | — | - | - | — | - | - | — | - | - | — | - | - |
| Load Current [A] | Ripple-Noise [mV] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 9 [V] | Input Volt. 18 [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.000 | 4 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.070 | 4 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.140 | 5 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.210 | 6 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.280 | 6 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.350 | 7 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.385 | 8 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>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.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Ripple Noise[mVp-p]</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fig.Complex Ripple Noise Wave Form | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|--|--|----------------------|--|
| Model | | SUW101215/SUCW101215 | |
| Item | | Ripple-Noise | |
| Object | | -15V0.35A | |
| 1.Graph | | 2.Values | |
| <div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>Input Volt.</div><div>9V</div></div><div><div>Input Volt.</div><div>18V</div></div></div> <div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <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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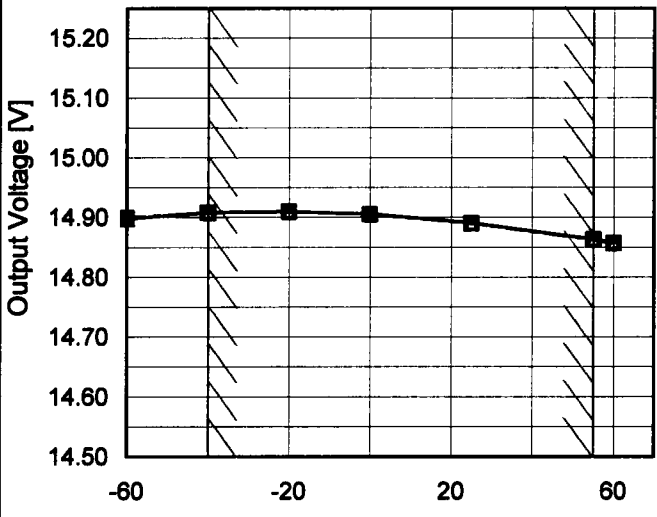
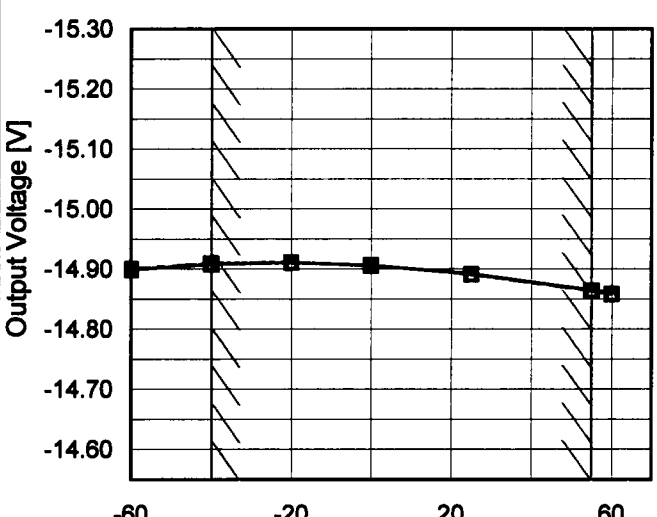
COSEL

| Model | | SUW101215/SUCW101215 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------|-----------------------------------|-----------|--------------------------|---------------|----------------|-----|---|----|-----|---|----|-----|---|----|---|---|---|----|---|---|----|---|---|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | | Ripple Voltage (by Ambient Temp.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | +15V0.35A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div>Load 50%</div><div>Load 100%</div></div></div><div><table><thead><tr><th>Ambient Temperature [°C]</th><th>Load 50% [mV]</th><th>Load 100% [mV]</th></tr></thead><tbody><tr><td>-60</td><td>4</td><td>7</td></tr><tr><td>-40</td><td>4</td><td>7</td></tr><tr><td>-20</td><td>4</td><td>6</td></tr><tr><td>0</td><td>3</td><td>6</td></tr><tr><td>25</td><td>3</td><td>5</td></tr><tr><td>55</td><td>2</td><td>3</td></tr><tr><td>60</td><td>2</td><td>3</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></div></div> | | | | Ambient Temperature [°C] | Load 50% [mV] | Load 100% [mV] | -60 | 4 | 7 | -40 | 4 | 7 | -20 | 4 | 6 | 0 | 3 | 6 | 25 | 3 | 5 | 55 | 2 | 3 | 60 | 2 | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| Ambient Temperature [°C] | Load 50% [mV] | Load 100% [mV] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -60 | 4 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -40 | 4 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -20 | 4 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 3 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 3 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Input Volt. 12V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | -15V0.35A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div>Load 50%</div><div>Load 100%</div></div></div><div><table><thead><tr><th>Ambient Temperature [°C]</th><th>Load 50% [mV]</th><th>Load 100% [mV]</th></tr></thead><tbody><tr><td>-60</td><td>9</td><td>11</td></tr><tr><td>-40</td><td>9</td><td>11</td></tr><tr><td>-20</td><td>9</td><td>11</td></tr><tr><td>0</td><td>8</td><td>9</td></tr><tr><td>25</td><td>6</td><td>7</td></tr><tr><td>55</td><td>4</td><td>5</td></tr><tr><td>60</td><td>4</td><td>5</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></div></div> | | | | Ambient Temperature [°C] | Load 50% [mV] | Load 100% [mV] | -60 | 9 | 11 | -40 | 9 | 11 | -20 | 9 | 11 | 0 | 8 | 9 | 25 | 6 | 7 | 55 | 4 | 5 | 60 | 4 | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| Ambient Temperature [°C] | Load 50% [mV] | Load 100% [mV] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -60 | 9 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -40 | 9 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -20 | 9 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 8 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 6 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Input Volt. 12V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measured by 100 MHz Oscilloscope. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note: Slanted line shows the range of the rated ambient temperature. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testing Circuitry | | Figure B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ambient Temperature [°C] | | Ripple Voltage [mV] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -60 | | 4 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -40 | | 4 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -20 | | 4 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | | 3 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | 3 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | |
|--------------------------|--|---------------------|-----------|
| Ambient Temperature [°C] | | Ripple Voltage [mV] | |
| | | Load 50% | Load 100% |
| -60 | | 9 | 11 |
| -40 | | 9 | 11 |
| -20 | | 9 | 11 |
| 0 | | 8 | 9 |
| 25 | | 6 | 7 |
| 55 | | 4 | 5 |
| 60 | | 4 | 5 |
| - | | - | - |
| - | | - | - |
| - | | - | - |
| - | | - | - |

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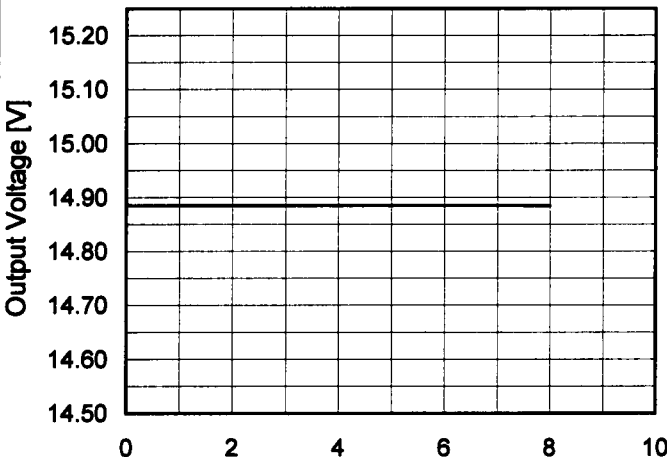
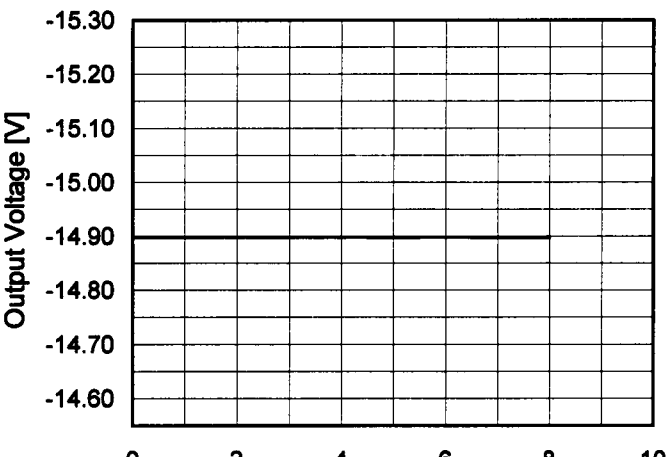
COSEL

| Model | SUW101215/SUCW101215 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------------------|--|-------------------|--|--------------------------|--------------------|--|--|------------------|-------------------|-------------------|-----|---------|---------|---------|-----|---------|---------|---------|-----|---------|---------|---------|---|---------|---------|---------|----|---------|---------|---------|----|---------|---------|---------|----|---------|---------|---------|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|
| Item | Ambient Temperature Drift | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +15V0.35A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | —△— Input Volt. 9V ---□--- Input Volt. 12V ---○--- Input Volt. 18V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 9[V]</th><th>Input Volt. 12[V]</th><th>Input Volt. 18[V]</th></tr><tr><td>-60</td><td>14.898</td><td>14.899</td><td>14.899</td></tr><tr><td>-40</td><td>14.908</td><td>14.908</td><td>14.908</td></tr><tr><td>-20</td><td>14.910</td><td>14.910</td><td>14.910</td></tr><tr><td>0</td><td>14.906</td><td>14.905</td><td>14.905</td></tr><tr><td>25</td><td>14.891</td><td>14.890</td><td>14.890</td></tr><tr><td>55</td><td>14.864</td><td>14.863</td><td>14.862</td></tr><tr><td>60</td><td>14.858</td><td>14.857</td><td>14.857</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> | | | Ambient Temperature [°C] | Output Voltage [V] | | | Input Volt. 9[V] | Input Volt. 12[V] | Input Volt. 18[V] | -60 | 14.898 | 14.899 | 14.899 | -40 | 14.908 | 14.908 | 14.908 | -20 | 14.910 | 14.910 | 14.910 | 0 | 14.906 | 14.905 | 14.905 | 25 | 14.891 | 14.890 | 14.890 | 55 | 14.864 | 14.863 | 14.862 | 60 | 14.858 | 14.857 | 14.857 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Ambient Temperature [°C] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 9[V] | Input Volt. 12[V] | Input Volt. 18[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -60 | 14.898 | 14.899 | 14.899 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -40 | 14.908 | 14.908 | 14.908 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -20 | 14.910 | 14.910 | 14.910 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 14.906 | 14.905 | 14.905 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 14.891 | 14.890 | 14.890 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 14.864 | 14.863 | 14.862 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | 14.858 | 14.857 | 14.857 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | -15V0.35A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | —△— Input Volt. 9V ---□--- Input Volt. 12V ---○--- Input Volt. 18V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 9[V]</th><th>Input Volt. 12[V]</th><th>Input Volt. 18[V]</th></tr><tr><td>-60</td><td>-14.899</td><td>-14.900</td><td>-14.900</td></tr><tr><td>-40</td><td>-14.908</td><td>-14.909</td><td>-14.909</td></tr><tr><td>-20</td><td>-14.911</td><td>-14.911</td><td>-14.911</td></tr><tr><td>0</td><td>-14.906</td><td>-14.906</td><td>-14.906</td></tr><tr><td>25</td><td>-14.892</td><td>-14.891</td><td>-14.891</td></tr><tr><td>55</td><td>-14.865</td><td>-14.864</td><td>-14.863</td></tr><tr><td>60</td><td>-14.860</td><td>-14.858</td><td>-14.858</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> | | | Ambient Temperature [°C] | Output Voltage [V] | | | Input Volt. 9[V] | Input Volt. 12[V] | Input Volt. 18[V] | -60 | -14.899 | -14.900 | -14.900 | -40 | -14.908 | -14.909 | -14.909 | -20 | -14.911 | -14.911 | -14.911 | 0 | -14.906 | -14.906 | -14.906 | 25 | -14.892 | -14.891 | -14.891 | 55 | -14.865 | -14.864 | -14.863 | 60 | -14.860 | -14.858 | -14.858 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Ambient Temperature [°C] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 9[V] | Input Volt. 12[V] | Input Volt. 18[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -60 | -14.899 | -14.900 | -14.900 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -40 | -14.908 | -14.909 | -14.909 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -20 | -14.911 | -14.911 | -14.911 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | -14.906 | -14.906 | -14.906 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | -14.892 | -14.891 | -14.891 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | -14.865 | -14.864 | -14.863 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | -14.860 | -14.858 | -14.858 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note: Slanted line shows the range of the rated ambient temperature. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

- 15 -

BC-3803

COSEL

| Model | SUW101215/SUCW101215 | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------|--|--|----------------------|--------------------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|
| Item | Time Lapse Drift | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +15V0.35A | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | |
| <div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 12V</p><p>Load 100%</p></div> | | <table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>14.894</td></tr><tr><td>0.5</td><td>14.885</td></tr><tr><td>1.0</td><td>14.885</td></tr><tr><td>2.0</td><td>14.885</td></tr><tr><td>3.0</td><td>14.885</td></tr><tr><td>4.0</td><td>14.885</td></tr><tr><td>5.0</td><td>14.885</td></tr><tr><td>6.0</td><td>14.885</td></tr><tr><td>7.0</td><td>14.885</td></tr><tr><td>8.0</td><td>14.885</td></tr></table> | | Time since start [H] | Output Voltage [V] | 0.0 | 14.894 | 0.5 | 14.885 | 1.0 | 14.885 | 2.0 | 14.885 | 3.0 | 14.885 | 4.0 | 14.885 | 5.0 | 14.885 | 6.0 | 14.885 | 7.0 | 14.885 | 8.0 | 14.885 |
| Time since start [H] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 14.894 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 | 14.885 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0 | 14.885 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.0 | 14.885 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 14.885 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.0 | 14.885 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.0 | 14.885 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.0 | 14.885 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0 | 14.885 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.0 | 14.885 | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | -15V0.35A | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | |
| <div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 12V</p><p>Load 100%</p></div> | | <table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>-14.904</td></tr><tr><td>0.5</td><td>-14.898</td></tr><tr><td>1.0</td><td>-14.898</td></tr><tr><td>2.0</td><td>-14.898</td></tr><tr><td>3.0</td><td>-14.898</td></tr><tr><td>4.0</td><td>-14.898</td></tr><tr><td>5.0</td><td>-14.898</td></tr><tr><td>6.0</td><td>-14.898</td></tr><tr><td>7.0</td><td>-14.898</td></tr><tr><td>8.0</td><td>-14.898</td></tr></table> | | Time since start [H] | Output Voltage [V] | 0.0 | -14.904 | 0.5 | -14.898 | 1.0 | -14.898 | 2.0 | -14.898 | 3.0 | -14.898 | 4.0 | -14.898 | 5.0 | -14.898 | 6.0 | -14.898 | 7.0 | -14.898 | 8.0 | -14.898 |
| Time since start [H] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | -14.904 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 | -14.898 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0 | -14.898 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.0 | -14.898 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | -14.898 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.0 | -14.898 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.0 | -14.898 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.0 | -14.898 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0 | -14.898 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.0 | -14.898 | | | | | | | | | | | | | | | | | | | | | | | | |

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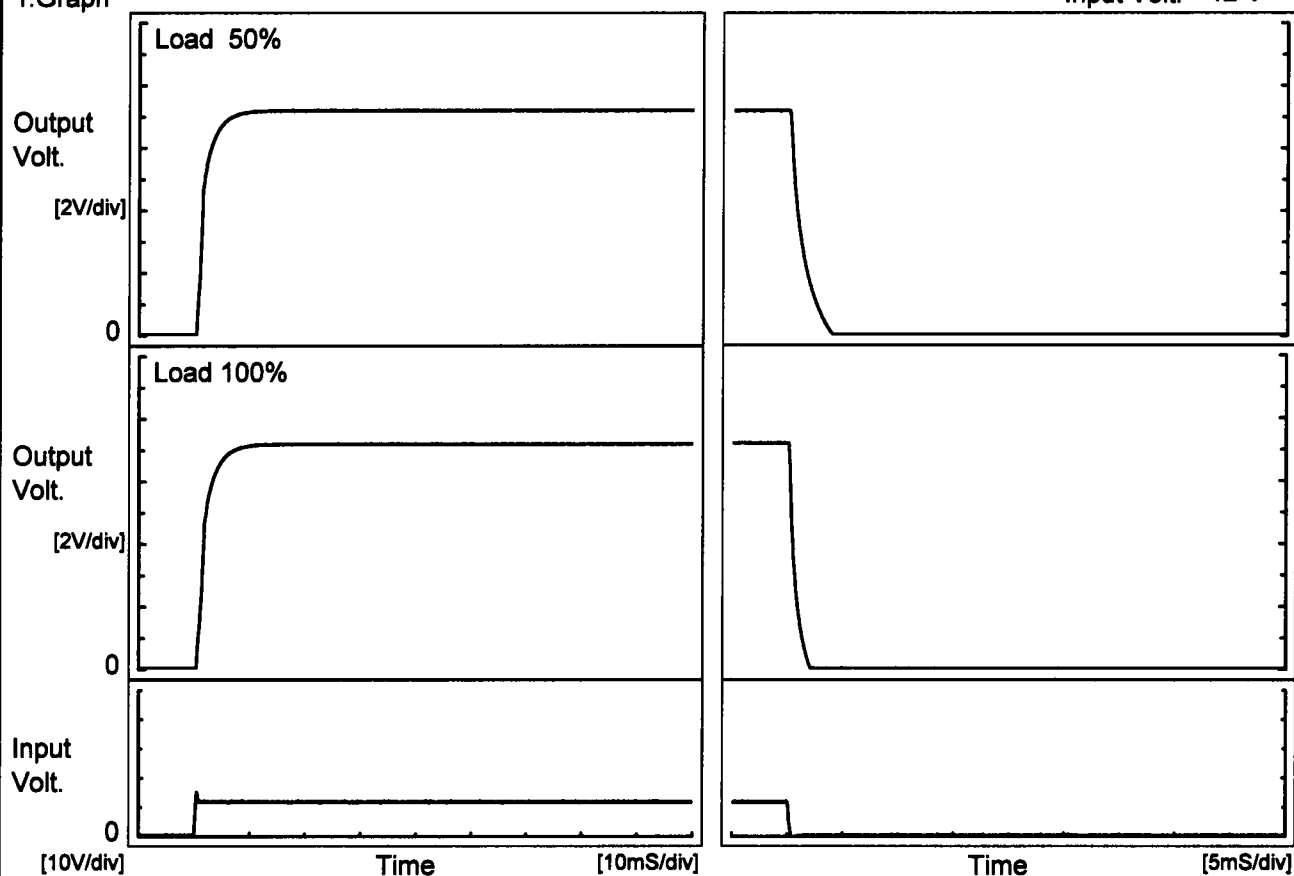
BC-3803

COSEL

| | | | |
|--------|----------------------|-------------------|----------|
| Model | SUW101215/SUCW101215 | Temperature | 25°C |
| Item | Rise and Fall Time | Testing Circuitry | Figure A |
| Object | +15V0.35A | | |

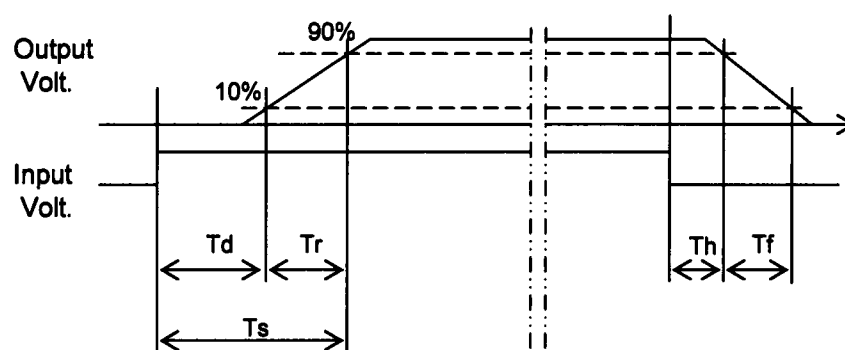
1. Graph

Input Volt. 12 V



2. Values

| | | [mS] | | | | |
|-------|------|------|-----|-----|-----|-----|
| Load | Time | Td | Tr | Ts | Th | Tf |
| 50 % | | 0.5 | 4.8 | 5.3 | 0.2 | 2.6 |
| 100 % | | 0.6 | 5.1 | 5.7 | 0.2 | 1.3 |

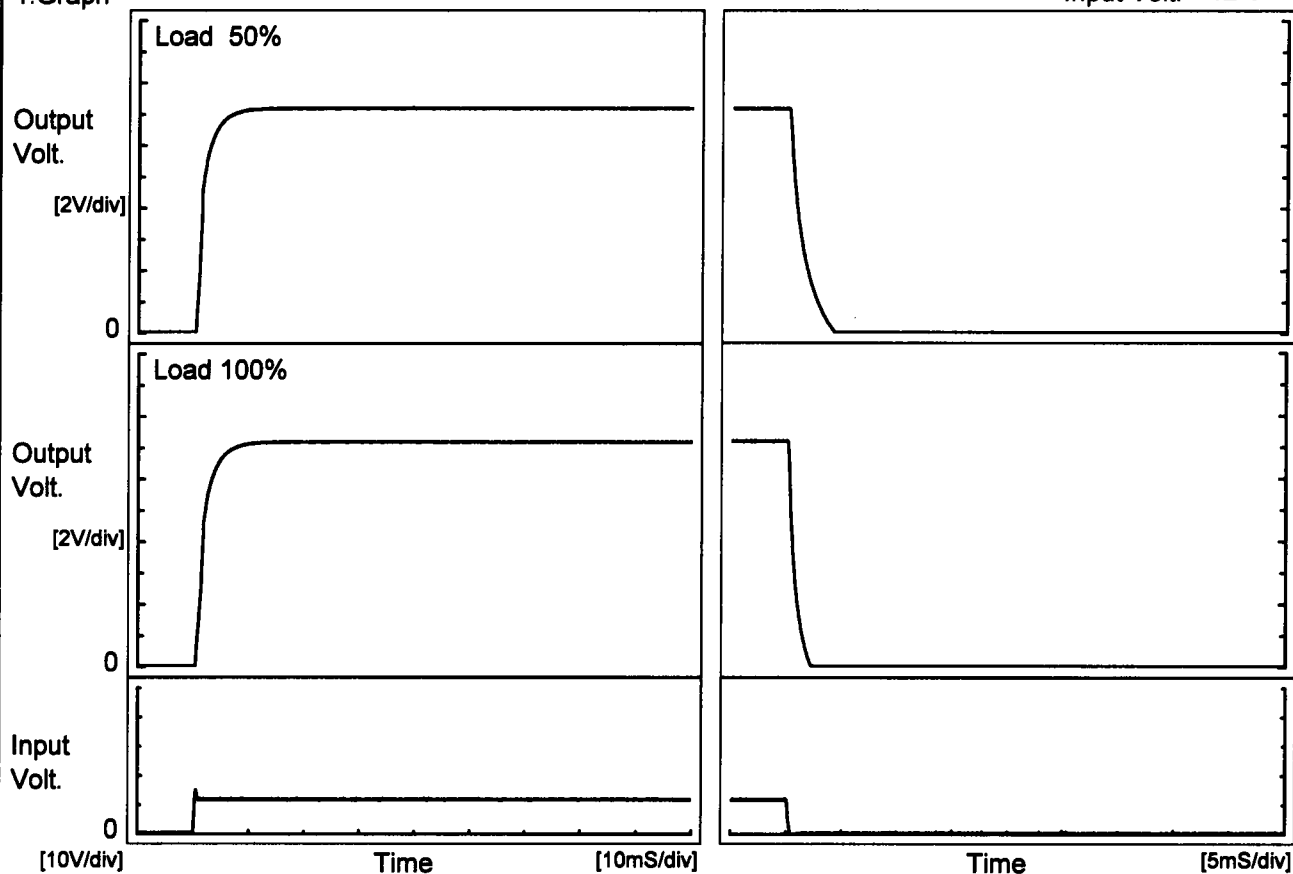


COSEL

| | | | |
|--------|----------------------|-------------------|----------|
| Model | SUW101215/SUCW101215 | Temperature | 25°C |
| Item | Rise and Fall Time | Testing Circuitry | Figure A |
| Object | -15V0.35A | | |

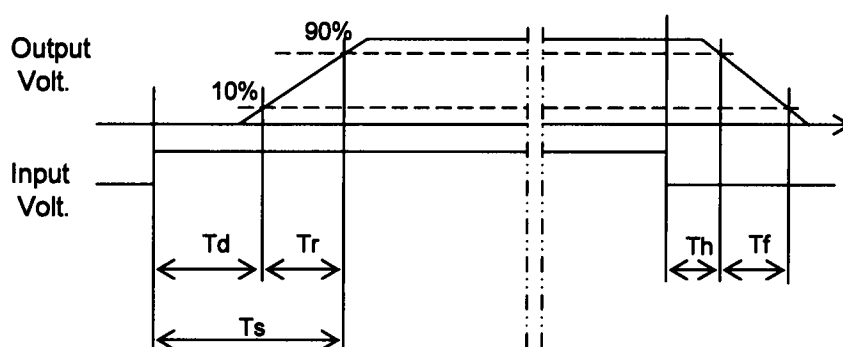
1. Graph

Input Volt. 12 V



2. Values

| | | [mS] | | | | |
|-------|------|------|-----|-----|-----|-----|
| Load | Time | Td | Tr | Ts | Th | Tf |
| 50 % | | 0.5 | 4.8 | 5.3 | 0.2 | 2.8 |
| 100 % | | 0.6 | 5.1 | 5.7 | 0.2 | 1.4 |

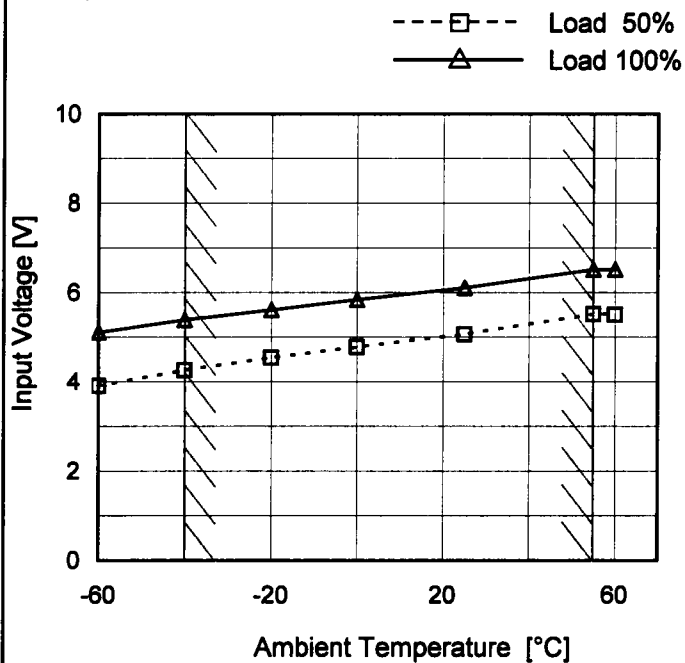


COSEL

Model SUW101215/SUCW101215
Item Minimum Input Voltage
for Regulated Output Voltage

Object +15V0.35A

1.Graph



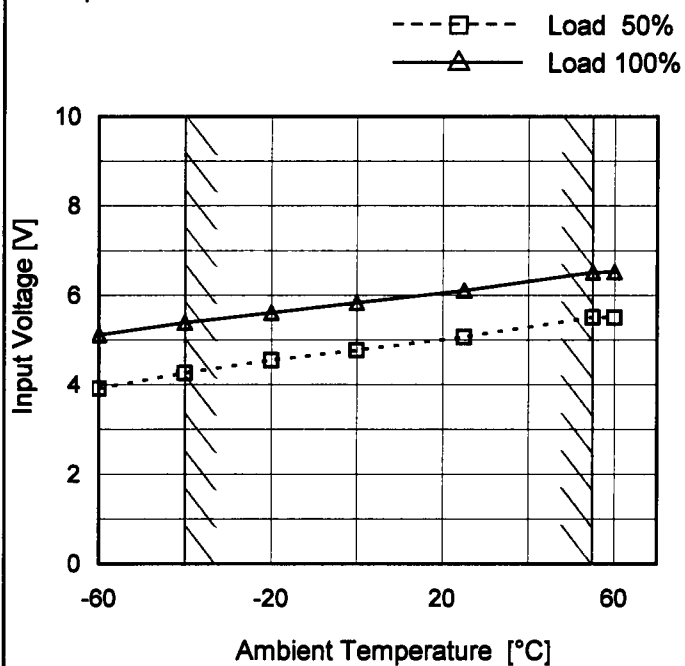
Testing Circuitry Figure A

2.Values

| Ambient Temperature [°C] | Input Voltage [V] | |
|--------------------------|-------------------|-----------|
| | Load 50% | Load 100% |
| -60 | 4.0 | 5.2 |
| -40 | 4.3 | 5.4 |
| -20 | 4.6 | 5.7 |
| 0 | 4.8 | 5.9 |
| 25 | 5.1 | 6.1 |
| 55 | 5.6 | 6.6 |
| 60 | 5.5 | 6.6 |
| 0 | - | - |
| -- | - | - |
| -- | - | - |
| -- | - | - |

Object -15V0.35A

1.Graph



2.Values

| Ambient Temperature [°C] | Input Voltage [V] | |
|--------------------------|-------------------|-----------|
| | Load 50% | Load 100% |
| -60 | 4.0 | 5.2 |
| -40 | 4.3 | 5.4 |
| -20 | 4.6 | 5.6 |
| 0 | 4.8 | 5.9 |
| 25 | 5.1 | 6.1 |
| 55 | 5.6 | 6.6 |
| 60 | 5.5 | 6.6 |
| 0 | - | - |
| -- | - | - |
| -- | - | - |
| -- | - | - |

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

| Model | SUW101215/SUCW101215 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------|--|-------------------|--|--------------------|------------------|--|--|------------------|-------------------|-------------------|--------|------|------|------|--------|------|------|------|--------|------|------|------|--------|------|------|------|--------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|------|------|------|------|
| Item | Overcurrent Protection | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +15V0.35A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | <div><div></div>Input Volt. 9V</div> <div><div></div>Input Volt. 12V</div> <div><div></div>Input Volt. 18V</div> | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="3">Load Current [A]</th></tr><tr><th>Input Volt. 9[V]</th><th>Input Volt. 12[V]</th><th>Input Volt. 18[V]</th></tr><tr><td>15.0</td><td>0.46</td><td>0.49</td><td>0.52</td></tr><tr><td>14.3</td><td>0.71</td><td>0.80</td><td>0.86</td></tr><tr><td>13.5</td><td>0.75</td><td>0.84</td><td>0.90</td></tr><tr><td>12.0</td><td>0.78</td><td>0.86</td><td>0.91</td></tr><tr><td>10.5</td><td>0.81</td><td>0.87</td><td>0.90</td></tr><tr><td>9.0</td><td>0.83</td><td>0.88</td><td>0.90</td></tr><tr><td>7.5</td><td>0.85</td><td>0.89</td><td>0.89</td></tr><tr><td>6.0</td><td>0.88</td><td>0.91</td><td>0.89</td></tr><tr><td>4.5</td><td>0.92</td><td>0.94</td><td>0.86</td></tr><tr><td>3.0</td><td>0.97</td><td>0.96</td><td>0.82</td></tr><tr><td>1.5</td><td>0.99</td><td>0.94</td><td>0.82</td></tr><tr><td>0.0</td><td>1.18</td><td>1.17</td><td>1.10</td></tr></table> | | | Output Voltage [V] | Load Current [A] | | | Input Volt. 9[V] | Input Volt. 12[V] | Input Volt. 18[V] | 15.0 | 0.46 | 0.49 | 0.52 | 14.3 | 0.71 | 0.80 | 0.86 | 13.5 | 0.75 | 0.84 | 0.90 | 12.0 | 0.78 | 0.86 | 0.91 | 10.5 | 0.81 | 0.87 | 0.90 | 9.0 | 0.83 | 0.88 | 0.90 | 7.5 | 0.85 | 0.89 | 0.89 | 6.0 | 0.88 | 0.91 | 0.89 | 4.5 | 0.92 | 0.94 | 0.86 | 3.0 | 0.97 | 0.96 | 0.82 | 1.5 | 0.99 | 0.94 | 0.82 | 0.0 | 1.18 | 1.17 | 1.10 |
| Output Voltage [V] | Load Current [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 9[V] | Input Volt. 12[V] | Input Volt. 18[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15.0 | 0.46 | 0.49 | 0.52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14.3 | 0.71 | 0.80 | 0.86 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13.5 | 0.75 | 0.84 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12.0 | 0.78 | 0.86 | 0.91 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10.5 | 0.81 | 0.87 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.0 | 0.83 | 0.88 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.5 | 0.85 | 0.89 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.0 | 0.88 | 0.91 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.5 | 0.92 | 0.94 | 0.86 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 0.97 | 0.96 | 0.82 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.5 | 0.99 | 0.94 | 0.82 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 1.18 | 1.17 | 1.10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | -15V0.35A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | <div><div></div>Input Volt. 9V</div> <div><div></div>Input Volt. 12V</div> <div><div></div>Input Volt. 18V</div> | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="3">Load Current [A]</th></tr><tr><th>Input Volt. 9[V]</th><th>Input Volt. 12[V]</th><th>Input Volt. 18[V]</th></tr><tr><td>-15.00</td><td>0.51</td><td>0.55</td><td>0.57</td></tr><tr><td>-14.25</td><td>0.71</td><td>0.80</td><td>0.87</td></tr><tr><td>-13.50</td><td>0.75</td><td>0.84</td><td>0.91</td></tr><tr><td>-12.00</td><td>0.78</td><td>0.86</td><td>0.91</td></tr><tr><td>-10.50</td><td>0.81</td><td>0.87</td><td>0.91</td></tr><tr><td>-9.00</td><td>0.83</td><td>0.89</td><td>0.90</td></tr><tr><td>-7.50</td><td>0.86</td><td>0.90</td><td>0.89</td></tr><tr><td>-6.00</td><td>0.89</td><td>0.92</td><td>0.89</td></tr><tr><td>-4.50</td><td>0.93</td><td>0.94</td><td>0.86</td></tr><tr><td>-3.00</td><td>0.97</td><td>0.96</td><td>0.83</td></tr><tr><td>-1.50</td><td>1.00</td><td>0.94</td><td>0.82</td></tr><tr><td>0.00</td><td>1.19</td><td>1.18</td><td>1.11</td></tr></table> | | | Output Voltage [V] | Load Current [A] | | | Input Volt. 9[V] | Input Volt. 12[V] | Input Volt. 18[V] | -15.00 | 0.51 | 0.55 | 0.57 | -14.25 | 0.71 | 0.80 | 0.87 | -13.50 | 0.75 | 0.84 | 0.91 | -12.00 | 0.78 | 0.86 | 0.91 | -10.50 | 0.81 | 0.87 | 0.91 | -9.00 | 0.83 | 0.89 | 0.90 | -7.50 | 0.86 | 0.90 | 0.89 | -6.00 | 0.89 | 0.92 | 0.89 | -4.50 | 0.93 | 0.94 | 0.86 | -3.00 | 0.97 | 0.96 | 0.83 | -1.50 | 1.00 | 0.94 | 0.82 | 0.00 | 1.19 | 1.18 | 1.11 |
| Output Voltage [V] | Load Current [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 9[V] | Input Volt. 12[V] | Input Volt. 18[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -15.00 | 0.51 | 0.55 | 0.57 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -14.25 | 0.71 | 0.80 | 0.87 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -13.50 | 0.75 | 0.84 | 0.91 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -12.00 | 0.78 | 0.86 | 0.91 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -10.50 | 0.81 | 0.87 | 0.91 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -9.00 | 0.83 | 0.89 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -7.50 | 0.86 | 0.90 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -6.00 | 0.89 | 0.92 | 0.89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -4.50 | 0.93 | 0.94 | 0.86 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -3.00 | 0.97 | 0.96 | 0.83 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -1.50 | 1.00 | 0.94 | 0.82 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | 1.19 | 1.18 | 1.11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note: Slanted line shows the range of the rated load current. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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BC-3803

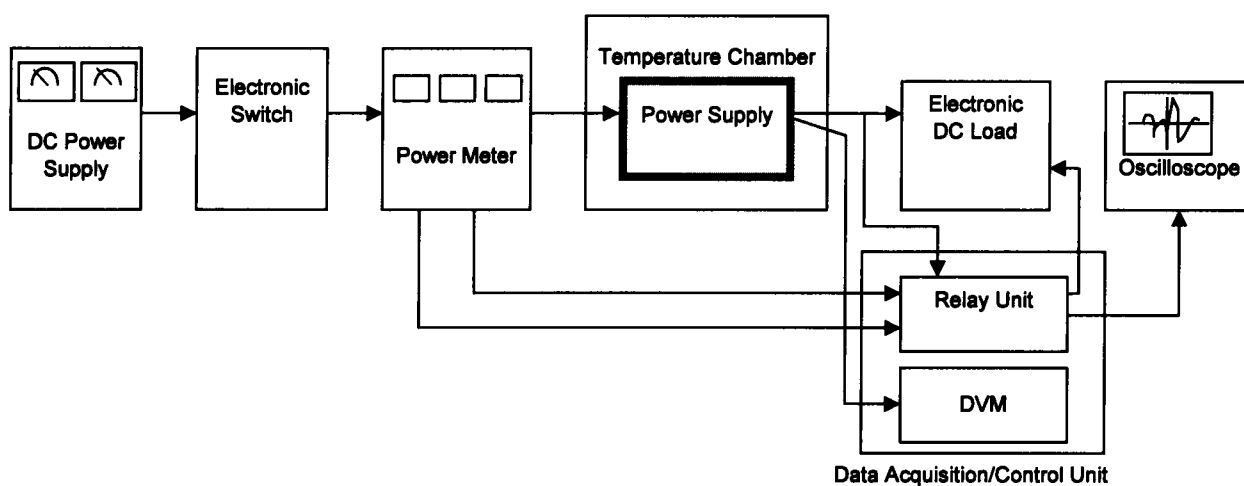


Figure A

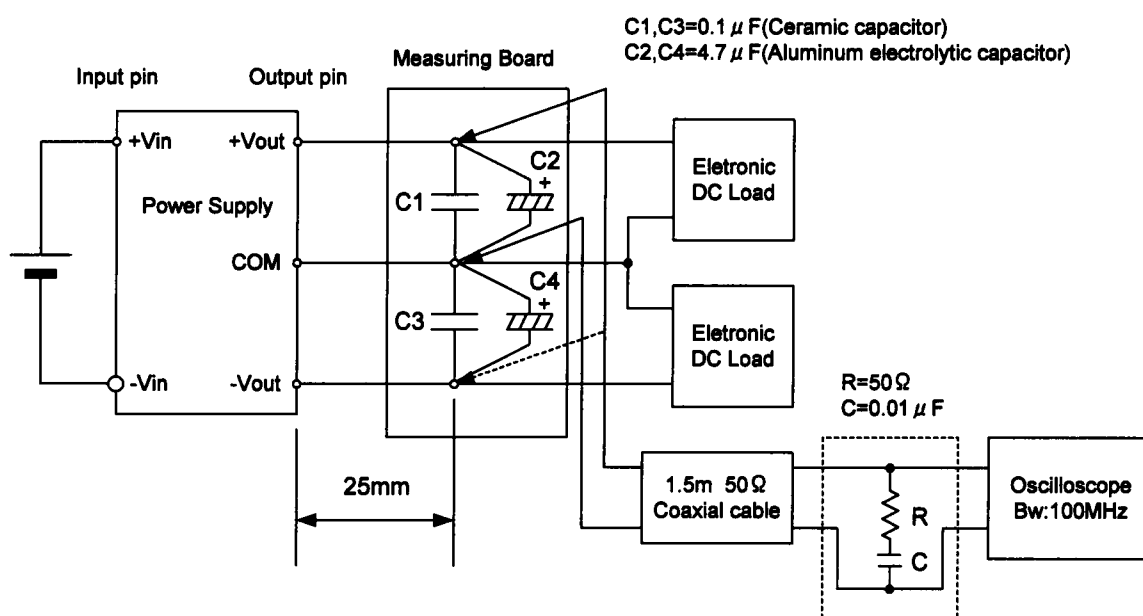


Figure B (Ripple and Ripple noise Characteristic)