

TEST DATA OF DHS250B07

Regulated DC Power Supply
November 19, 2009

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Noriaki Nakase Design Engineer

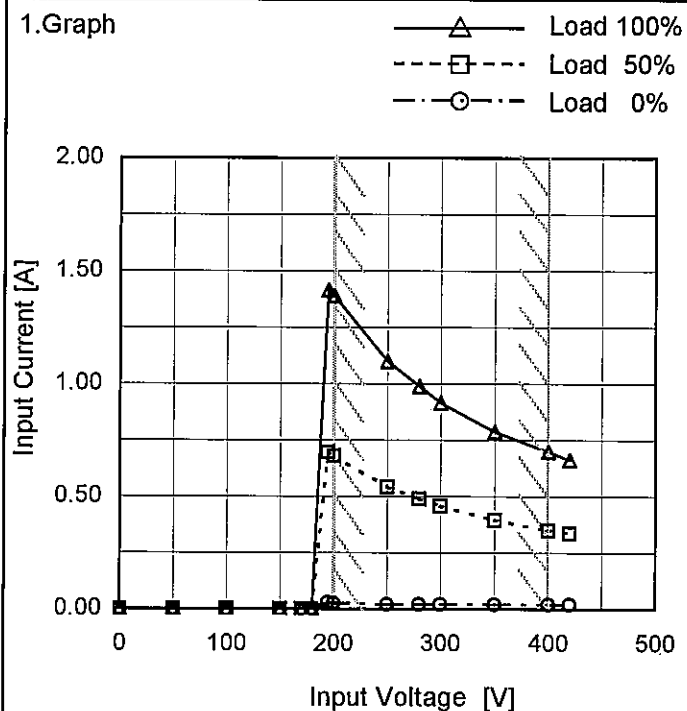
COSEL CO.,LTD.

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| | |
|--------|----------------------------------|
| Model | DHS250B07 |
| Item | Input Current (by Input Voltage) |
| Object | |



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 | 0.000 | 0.000 | 0.000 |
| 50 | 0.000 | 0.000 | 0.000 |
| 100 | 0.000 | 0.000 | 0.000 |
| 150 | 0.000 | 0.000 | 0.000 |
| 170 | 0.000 | 0.000 | 0.000 |
| 180 | 0.000 | 0.000 | 0.000 |
| 195 | 0.027 | 0.696 | 1.414 |
| 200 | 0.026 | 0.678 | 1.390 |
| 250 | 0.020 | 0.543 | 1.099 |
| 280 | 0.019 | 0.490 | 0.990 |
| 300 | 0.019 | 0.456 | 0.916 |
| 350 | 0.020 | 0.395 | 0.788 |
| 400 | 0.021 | 0.349 | 0.698 |
| 420 | 0.021 | 0.334 | 0.662 |
| -- | - | - | - |
| -- | - | - | - |
| -- | - | - | - |
| -- | - | - | - |

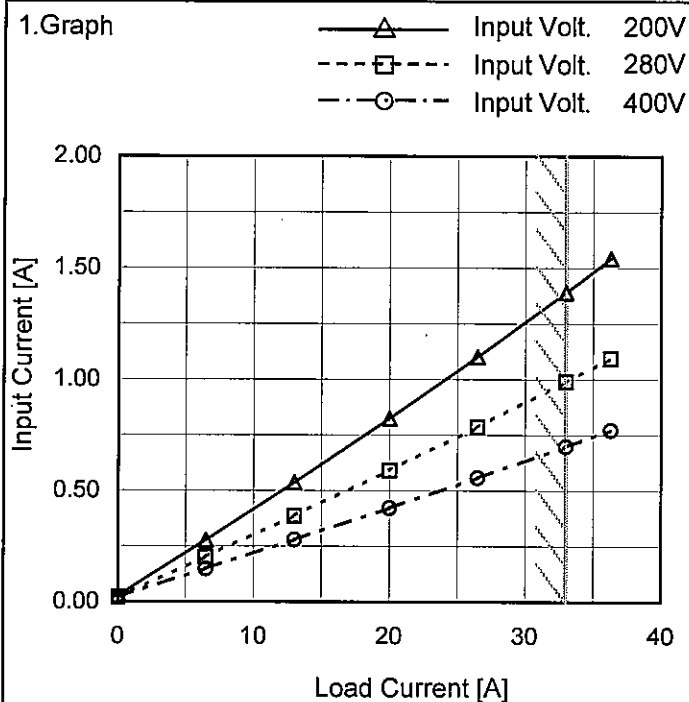
Model DHS250B07

Item Input Current (by Load Current)

Object

Temperature 25°C
Testing Circuitry Figure A

1. Graph



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

2. Values

| Load Current [A] | Input Current [A] | | |
|------------------|--------------------|--------------------|--------------------|
| | Input Volt. 200[V] | Input Volt. 280[V] | Input Volt. 400[V] |
| 0.0 | 0.026 | 0.019 | 0.021 |
| 6.5 | 0.278 | 0.201 | 0.148 |
| 13.0 | 0.536 | 0.386 | 0.278 |
| 20.0 | 0.823 | 0.590 | 0.421 |
| 26.5 | 1.101 | 0.786 | 0.557 |
| 33.0 | 1.390 | 0.990 | 0.698 |
| 36.3 | 1.541 | 1.094 | 0.771 |
| -- | - | - | - |
| -- | - | - | - |
| -- | - | - | - |
| -- | - | - | - |

| Model | | DHS250B07 | | Temperature | | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------|-------------------------------|--------------------|--|--|----------|--|------------------|-----------------|--|--|--------------------|--------------------|--------------------|-----|-----|-----|-----|-----|------|------|------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|
| Item | | Input Power (by Load Current) | | Testing Circuitry | | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div>—△—</div><div>---□---</div><div>---○---</div></div><div>Input Volt. 200V</div><div>Input Volt. 280V</div><div>Input Volt. 400V</div></div> <p>Input Power [W]</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p> | | | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Power [W]</th></tr><tr><th>Input Volt. 200[V]</th><th>Input Volt. 280[V]</th><th>Input Volt. 400[V]</th></tr><tr><td>0.0</td><td>5.2</td><td>5.5</td><td>8.4</td></tr><tr><td>6.5</td><td>55.6</td><td>56.3</td><td>59.2</td></tr><tr><td>13.0</td><td>107.2</td><td>108.1</td><td>111.2</td></tr><tr><td>20.0</td><td>164.6</td><td>165.2</td><td>168.4</td></tr><tr><td>26.5</td><td>220.2</td><td>220.1</td><td>222.8</td></tr><tr><td>33.0</td><td>278.0</td><td>277.2</td><td>279.2</td></tr><tr><td>36.3</td><td>308.2</td><td>306.3</td><td>308.4</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table> | | | | Load Current [A] | Input Power [W] | | | Input Volt. 200[V] | Input Volt. 280[V] | Input Volt. 400[V] | 0.0 | 5.2 | 5.5 | 8.4 | 6.5 | 55.6 | 56.3 | 59.2 | 13.0 | 107.2 | 108.1 | 111.2 | 20.0 | 164.6 | 165.2 | 168.4 | 26.5 | 220.2 | 220.1 | 222.8 | 33.0 | 278.0 | 277.2 | 279.2 | 36.3 | 308.2 | 306.3 | 308.4 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Load Current [A] | Input Power [W] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 200[V] | Input Volt. 280[V] | Input Volt. 400[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 5.2 | 5.5 | 8.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.5 | 55.6 | 56.3 | 59.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13.0 | 107.2 | 108.1 | 111.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20.0 | 164.6 | 165.2 | 168.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26.5 | 220.2 | 220.1 | 222.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33.0 | 278.0 | 277.2 | 279.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36.3 | 308.2 | 306.3 | 308.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Model | | DHS250B07 | |
| Item | | Efficiency (by Input Voltage) | |
| Object | | | |
| 1.Graph | | 2.Values | |

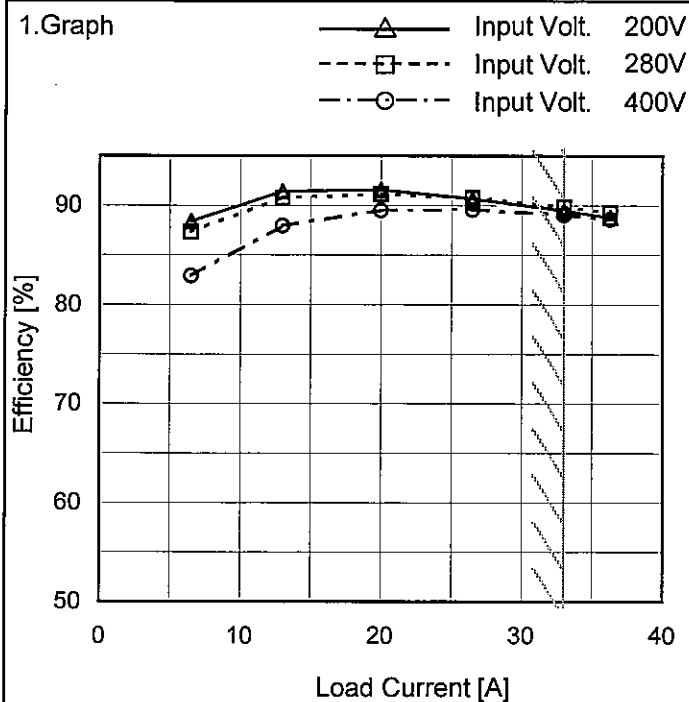
Model DHS250B07

Item Efficiency (by Load Current)

Object

Temperature 25°C
Testing Circuitry Figure A

1. Graph



2. Values

| Load Current [A] | Efficiency [%] | | |
|------------------|--------------------|--------------------|--------------------|
| | Input Volt. 200[V] | Input Volt. 280[V] | Input Volt. 400[V] |
| 0.0 | - | - | - |
| 6.5 | 88.4 | 87.3 | 82.9 |
| 13.0 | 91.4 | 90.8 | 87.9 |
| 20.0 | 91.6 | 91.2 | 89.5 |
| 26.5 | 90.7 | 90.8 | 89.6 |
| 33.0 | 89.5 | 89.8 | 89.1 |
| 36.3 | 88.8 | 89.3 | 88.6 |
| -- | - | - | - |
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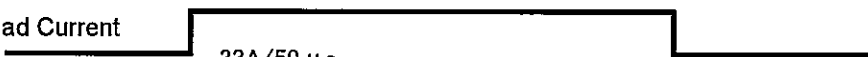
| Model | DHS250B07 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------------|------------------------------|-----------------------------|------------------------------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|----|---|---|--|--|
| Item | Line Regulation | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +7.5V33A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div>---□---</div><div>Load 50%</div></div><div><div>---△---</div><div>Load 100%</div></div></div> <table><thead><tr><th>Input Voltage [V]</th><th>Output Voltage [V] Load 50%</th><th>Output Voltage [V] Load 100%</th></tr></thead><tbody><tr><td>195</td><td>7.557</td><td>7.555</td></tr><tr><td>200</td><td>7.557</td><td>7.555</td></tr><tr><td>240</td><td>7.558</td><td>7.555</td></tr><tr><td>280</td><td>7.558</td><td>7.556</td></tr><tr><td>320</td><td>7.559</td><td>7.556</td></tr><tr><td>360</td><td>7.559</td><td>7.557</td></tr><tr><td>400</td><td>7.559</td><td>7.557</td></tr><tr><td>420</td><td>7.560</td><td>7.557</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></tbody></table> <p>Note: Slanted line shows the range of the rated input voltage.</p> | | Input Voltage [V] | Output Voltage [V] Load 50% | Output Voltage [V] Load 100% | 195 | 7.557 | 7.555 | 200 | 7.557 | 7.555 | 240 | 7.558 | 7.555 | 280 | 7.558 | 7.556 | 320 | 7.559 | 7.556 | 360 | 7.559 | 7.557 | 400 | 7.559 | 7.557 | 420 | 7.560 | 7.557 | -- | - | - | | |
| Input Voltage [V] | Output Voltage [V] Load 50% | Output Voltage [V] Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 195 | 7.557 | 7.555 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 7.557 | 7.555 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 240 | 7.558 | 7.555 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 280 | 7.558 | 7.556 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 320 | 7.559 | 7.556 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 360 | 7.559 | 7.557 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 | 7.559 | 7.557 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 420 | 7.560 | 7.557 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Model | DHS250B07 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|-----|-------|-------|-------|-----|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|--|--|
| Item | Load Regulation | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +7.5V33A | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div>—△—</div><div>---□---</div><div>-·-○-·-</div></div><div>Input Volt. 200V</div><div>Input Volt. 280V</div><div>Input Volt. 400V</div></div> <table><thead><tr><th>Load Current [A]</th><th>Input Volt. 200[V]</th><th>Input Volt. 280[V]</th><th>Input Volt. 400[V]</th></tr></thead><tbody><tr><td>0.0</td><td>7.560</td><td>7.561</td><td>7.562</td></tr><tr><td>6.5</td><td>7.559</td><td>7.560</td><td>7.561</td></tr><tr><td>13.0</td><td>7.558</td><td>7.559</td><td>7.560</td></tr><tr><td>20.0</td><td>7.557</td><td>7.558</td><td>7.559</td></tr><tr><td>26.5</td><td>7.556</td><td>7.557</td><td>7.558</td></tr><tr><td>33.0</td><td>7.555</td><td>7.556</td><td>7.557</td></tr><tr><td>36.3</td><td>7.554</td><td>7.556</td><td>7.557</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> | | Load Current [A] | Input Volt. 200[V] | Input Volt. 280[V] | Input Volt. 400[V] | 0.0 | 7.560 | 7.561 | 7.562 | 6.5 | 7.559 | 7.560 | 7.561 | 13.0 | 7.558 | 7.559 | 7.560 | 20.0 | 7.557 | 7.558 | 7.559 | 26.5 | 7.556 | 7.557 | 7.558 | 33.0 | 7.555 | 7.556 | 7.557 | 36.3 | 7.554 | 7.556 | 7.557 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - | | |
| Load Current [A] | Input Volt. 200[V] | Input Volt. 280[V] | Input Volt. 400[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 7.560 | 7.561 | 7.562 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.5 | 7.559 | 7.560 | 7.561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13.0 | 7.558 | 7.559 | 7.560 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20.0 | 7.557 | 7.558 | 7.559 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26.5 | 7.556 | 7.557 | 7.558 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33.0 | 7.555 | 7.556 | 7.557 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36.3 | 7.554 | 7.556 | 7.557 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <p>Note: Slanted line shows the range of the rated load current.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



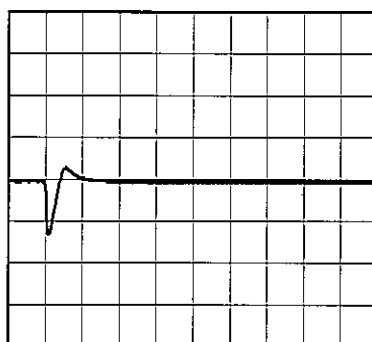
| | | |
|--------|-----------------------|--|
| Model | DHS250B07 | Temperature 25°C Testing Circuitry Figure A |
| Item | Dynamic Load Response | |
| Object | +7.5V33A | |

Input Volt. 280 V
Cycle 1000 mS

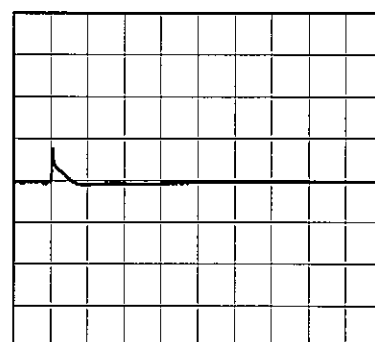
Load Current  33A/50 μ s

Min. Load (0A) \longleftrightarrow
Load 100% (33A)

500mV/div



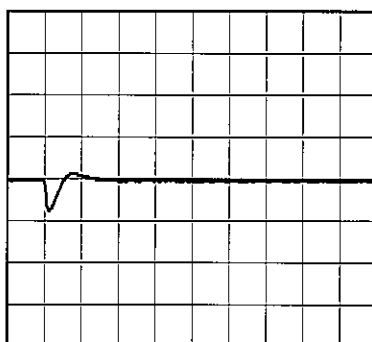
500 μ s/div



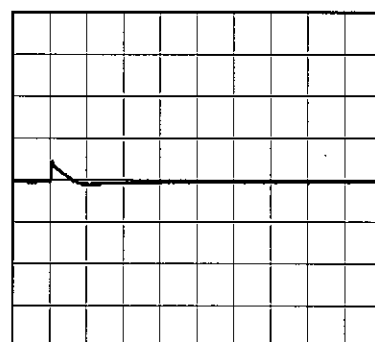
500 μ s/div

Min. Load (0A) \longleftrightarrow
Load 50% (16.5A)

500mV/div



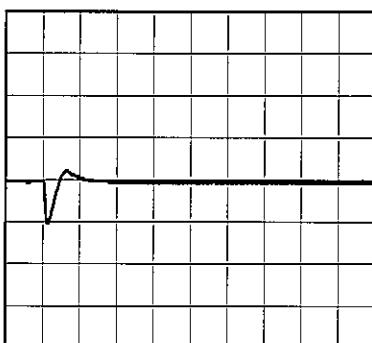
500 μ s/div



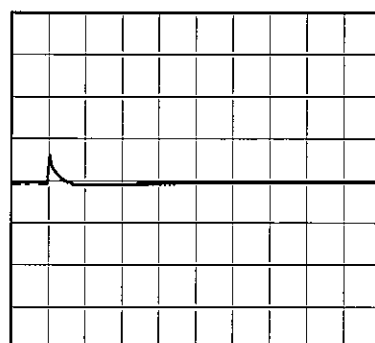
500 μ s/div

Load 10% (3.3A) \longleftrightarrow
Load 100% (33A)

500mV/div



500 μ s/div



500 μ s/div

| Model | | DHS250B07 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------|--|--|------------------|---------------------|--|---------------------|---------------------|-----|----|----|-----|----|----|------|----|----|------|----|----|------|----|----|------|----|----|------|----|----|----|---|---|----|---|---|----|---|---|----|---|---|
| Item | | Ripple Voltage (by Load Current) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | +7.5V33A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div>—△— Input Volt. 200V</div><div>- - -○- - - Input Volt. 400V</div></div><div>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.</div></div> | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 200 [V]</th><th>Input Volt. 400 [V]</th></tr><tr><td>0.0</td><td>35</td><td>50</td></tr><tr><td>6.5</td><td>35</td><td>50</td></tr><tr><td>13.0</td><td>35</td><td>50</td></tr><tr><td>20.0</td><td>35</td><td>50</td></tr><tr><td>26.5</td><td>30</td><td>50</td></tr><tr><td>33.0</td><td>30</td><td>50</td></tr><tr><td>36.3</td><td>30</td><td>50</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. 200 [V] | Input Volt. 400 [V] | 0.0 | 35 | 50 | 6.5 | 35 | 50 | 13.0 | 35 | 50 | 20.0 | 35 | 50 | 26.5 | 30 | 50 | 33.0 | 30 | 50 | 36.3 | 30 | 50 | -- | - | - | -- | - | - | -- | - | - | -- | - | - |
| Load Current [A] | Ripple Voltage [mV] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 200 [V] | Input Volt. 400 [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 35 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.5 | 35 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13.0 | 35 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20.0 | 35 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26.5 | 30 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33.0 | 30 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36.3 | 30 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div>Ripple [mVp-p]</div><div>Fig.Complex Ripple Wave Form</div></div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

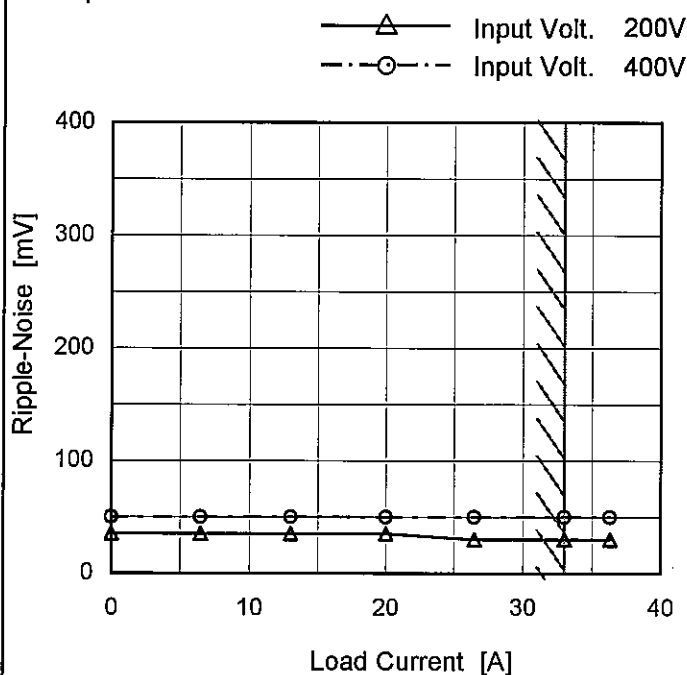
Model DHS250B07

Item Ripple-Noise

Object +7.5V33A

 Temperature 25°C
 Testing Circuitry Figure B

1. Graph



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.

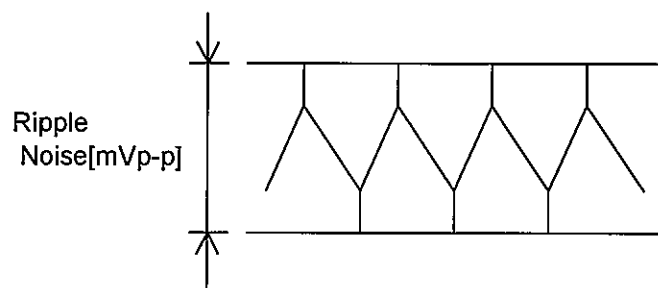


Fig. Complex Ripple Noise Wave Form

2. Values

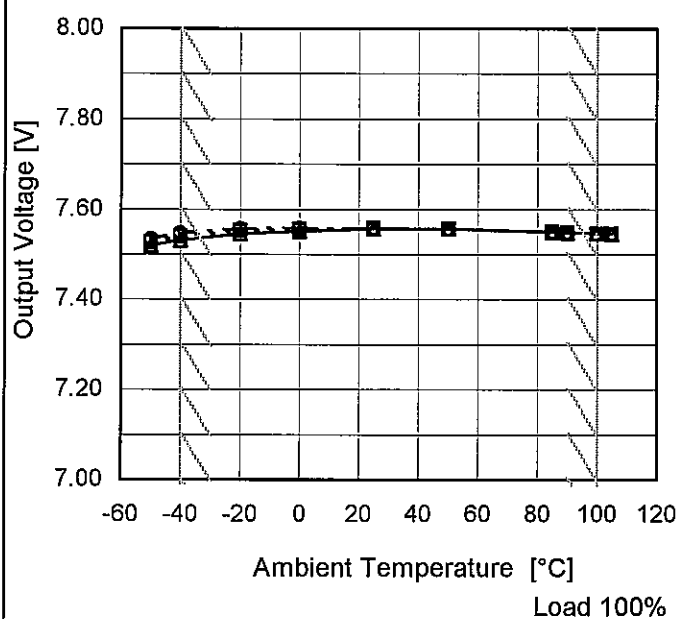
| Load Current [A] | Ripple-Noise [mV] | |
|------------------|---------------------|---------------------|
| | Input Volt. 200 [V] | Input Volt. 400 [V] |
| 0.0 | 35 | 50 |
| 6.5 | 35 | 50 |
| 13.0 | 35 | 50 |
| 20.0 | 35 | 50 |
| 26.5 | 30 | 50 |
| 33.0 | 30 | 50 |
| 36.3 | 30 | 50 |
| -- | - | - |
| -- | - | - |
| -- | - | - |
| -- | - | - |

| | | Testing Circuitry Figure B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------------------|---|--------------------------|---------------------|--|----------|-----------|-----|----|----|-----|----|----|-----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|-----|----|----|----|---|---|----|---|---|
| Model | DHS250B07 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Item | Ripple Voltage (by Ambient Temp.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +7.5V16.5A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div><div><div></div><div>---</div><div>□</div></div><div>Load 50%</div></div><div><div>---</div><div>△</div></div><div>Load 100%</div></div></div> <p>Ripple Voltage [mV]</p> <p>Ambient Temperature [°C]</p> <p>Input Volt. 280V</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Measured by 100 MHz Oscilloscope.</p> <p>Note: Slanted line shows the range of the rated ambient temperature.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>-50</td><td>95</td><td>90</td></tr><tr><td>-40</td><td>90</td><td>85</td></tr><tr><td>-20</td><td>85</td><td>80</td></tr><tr><td>0</td><td>85</td><td>80</td></tr><tr><td>25</td><td>70</td><td>65</td></tr><tr><td>50</td><td>65</td><td>60</td></tr><tr><td>90</td><td>60</td><td>50</td></tr><tr><td>100</td><td>55</td><td>45</td></tr><tr><td>105</td><td>55</td><td>45</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table> | Ambient Temperature [°C] | Ripple Voltage [mV] | | Load 50% | Load 100% | -50 | 95 | 90 | -40 | 90 | 85 | -20 | 85 | 80 | 0 | 85 | 80 | 25 | 70 | 65 | 50 | 65 | 60 | 90 | 60 | 50 | 100 | 55 | 45 | 105 | 55 | 45 | -- | - | - | -- | - | - |
| Ambient Temperature [°C] | Ripple Voltage [mV] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -50 | 95 | 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -40 | 90 | 85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -20 | 85 | 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 85 | 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 70 | 65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 65 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90 | 60 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 55 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 105 | 55 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|--------|---------------------------|
| Model | DHS250B07 |
| Item | Ambient Temperature Drift |
| Object | +7.5V33A |

1. Graph

—△— Input Volt. 200V
 ---□--- Input Volt. 280V
 ---○--- Input Volt. 400V



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

Testing Circuitry Figure A

2. Values

| Ambient Temperature [°C] | Output Voltage [V] | | |
|--------------------------|--------------------|--------------------|--------------------|
| | Input Volt. 200[V] | Input Volt. 280[V] | Input Volt. 400[V] |
| -50 | 7.521 | 7.528 | 7.534 |
| -40 | 7.531 | 7.540 | 7.547 |
| -20 | 7.545 | 7.552 | 7.558 |
| 0 | 7.551 | 7.555 | 7.558 |
| 25 | 7.556 | 7.558 | 7.559 |
| 50 | 7.557 | 7.557 | 7.557 |
| 85 | 7.550 | 7.549 | 7.549 |
| 90 | 7.548 | 7.548 | 7.548 |
| 100 | 7.546 | 7.546 | 7.546 |
| 105 | 7.545 | 7.545 | 7.546 |
| -- | - | - | - |

| | | | |
|--------|--|-------------------------|----------------------------|
| Model | | DHS250B07 | Testing Circuitry Figure A |
| Item | | Output Voltage Accuracy | |
| Object | | +7.5V33A | |

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 - 100°C

Input Voltage : 200 - 400V

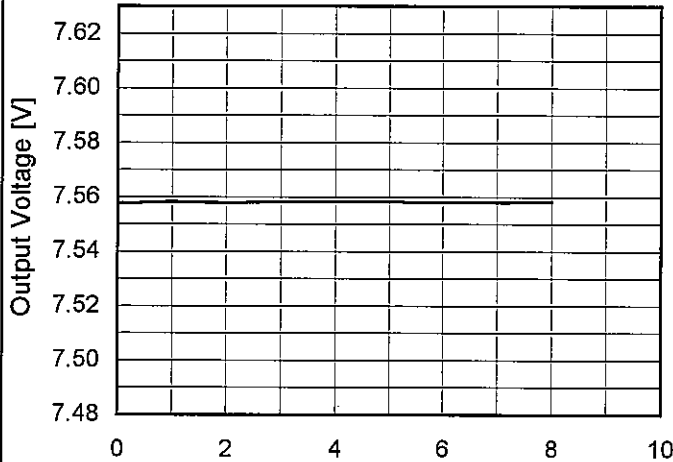
Load Current : 0 - 33A

* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

* Output Voltage Accuracy (Ration) = $\frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$

2. Values

| Item | Temperature [°C] | Input Voltage[V] | Output | | Output Voltage Accuracy | |
|-----------------|---------------------|---------------------|------------|------------|-------------------------|------------|
| | | | Current[A] | Voltage[V] | Value [mV] | Ration [%] |
| Maximum Voltage | -20 | 400 | 0 | 7.566 | ±18 | ±0.2 |
| Minimum Voltage | -40 | 200 | 33 | 7.531 | | |

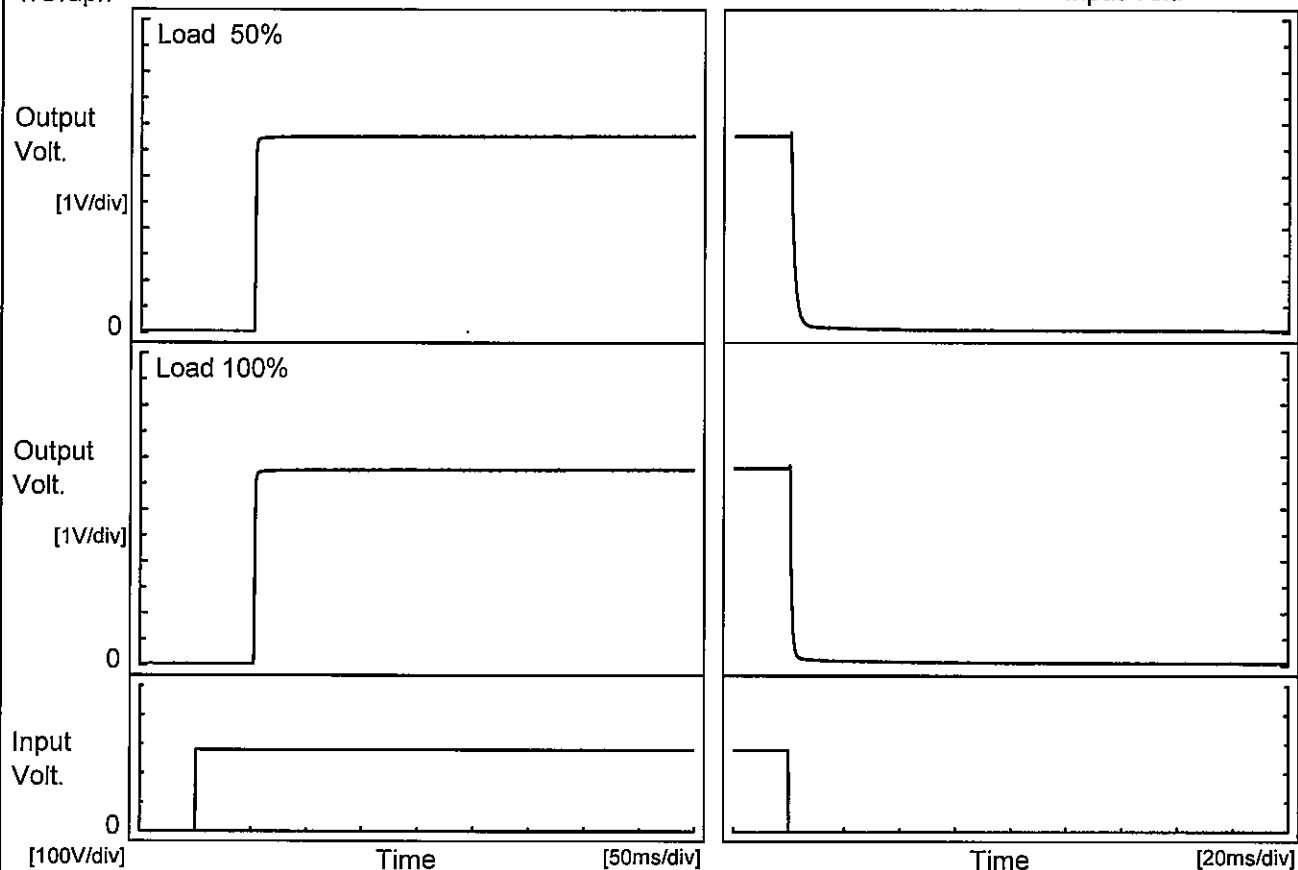
| Model | DHS250B07 | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------|--|----------|----------------------|--------------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| Item | Time Lapse Drift | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | |
| | | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | |
| Object | +7.5V33A | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | |
| <div><p>Output Voltage [V]</p><p>Time [H]</p><p>Input Volt. 280V</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>7.556</td></tr><tr><td>0.5</td><td>7.558</td></tr><tr><td>1.0</td><td>7.558</td></tr><tr><td>2.0</td><td>7.558</td></tr><tr><td>3.0</td><td>7.558</td></tr><tr><td>4.0</td><td>7.558</td></tr><tr><td>5.0</td><td>7.558</td></tr><tr><td>6.0</td><td>7.558</td></tr><tr><td>7.0</td><td>7.558</td></tr><tr><td>8.0</td><td>7.558</td></tr></table> | | Time since start [H] | Output Voltage [V] | 0.0 | 7.556 | 0.5 | 7.558 | 1.0 | 7.558 | 2.0 | 7.558 | 3.0 | 7.558 | 4.0 | 7.558 | 5.0 | 7.558 | 6.0 | 7.558 | 7.0 | 7.558 | 8.0 | 7.558 |
| Time since start [H] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 7.556 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 | 7.558 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0 | 7.558 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.0 | 7.558 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 7.558 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.0 | 7.558 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.0 | 7.558 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.0 | 7.558 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0 | 7.558 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.0 | 7.558 | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| | | | |
|--------|--------------------|-------------------|----------|
| Model | DHS250B07 | Temperature | 25°C |
| Item | Rise and Fall Time | Testing Circuitry | Figure A |
| Object | +7.5V33A | | |

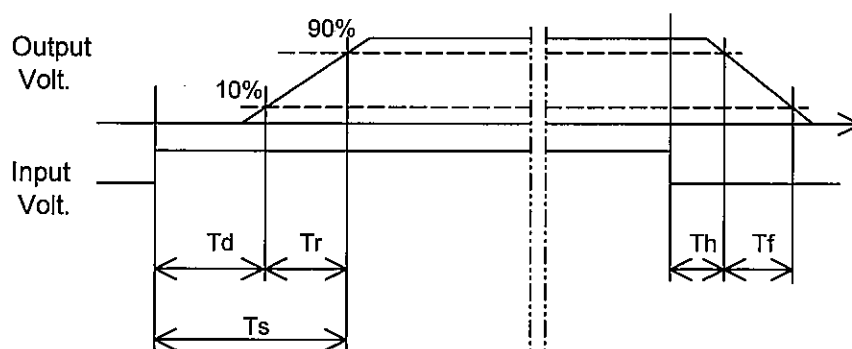
1. Graph

Input Volt. 280 V



2. Values

| | | [ms] | | | | |
|-------|------|------|-----|------|-----|-----|
| Load | Time | Td | Tr | Ts | Th | Tf |
| 50 % | | 53.0 | 1.3 | 54.3 | 0.5 | 3.0 |
| 100 % | | 53.0 | 1.3 | 54.3 | 0.4 | 1.5 |



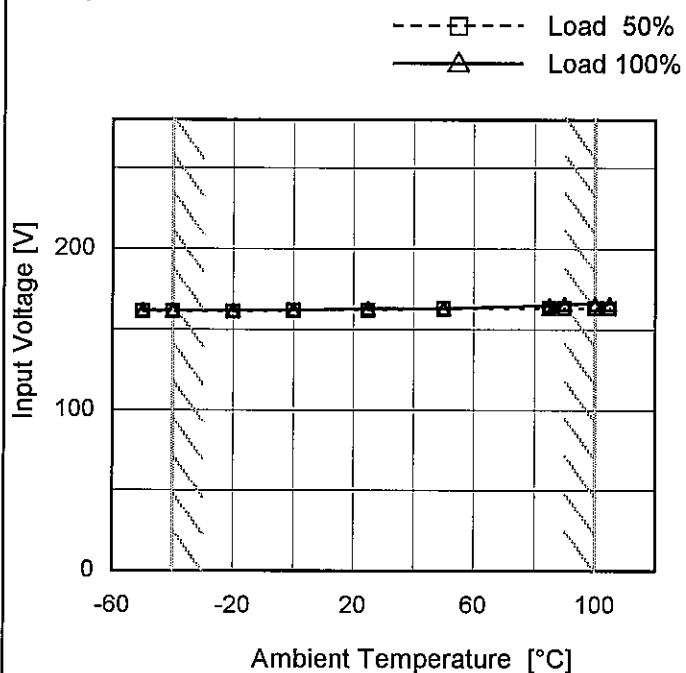
Model DHS250B07

Item Minimum Input Voltage
for Regulated Output Voltage

Object +7.5V33A

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% |
| -50 | 161 | 162 |
| -40 | 161 | 162 |
| -20 | 161 | 162 |
| 0 | 162 | 162 |
| 25 | 162 | 163 |
| 50 | 163 | 163 |
| 85 | 163 | 165 |
| 90 | 163 | 166 |
| 100 | 163 | 166 |
| 105 | 163 | 166 |
| -- | - | - |

Model DHS250B07

Item Overcurrent Protection

Object +7.5V33A

 Temperature 25°C
 Testing Circuitry Figure A

 1. Graph

Input Volt.

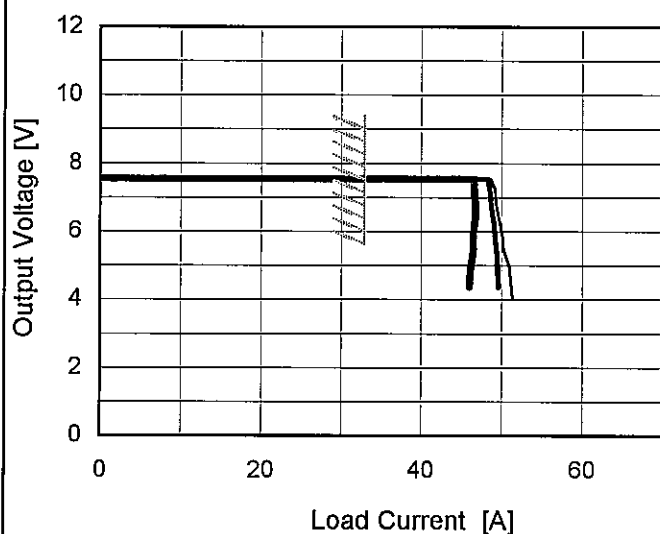
200V

Input Volt.

280V

Input Volt.

400V



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

Intermittent operation occurs when the output voltage is from 4V to 0V.

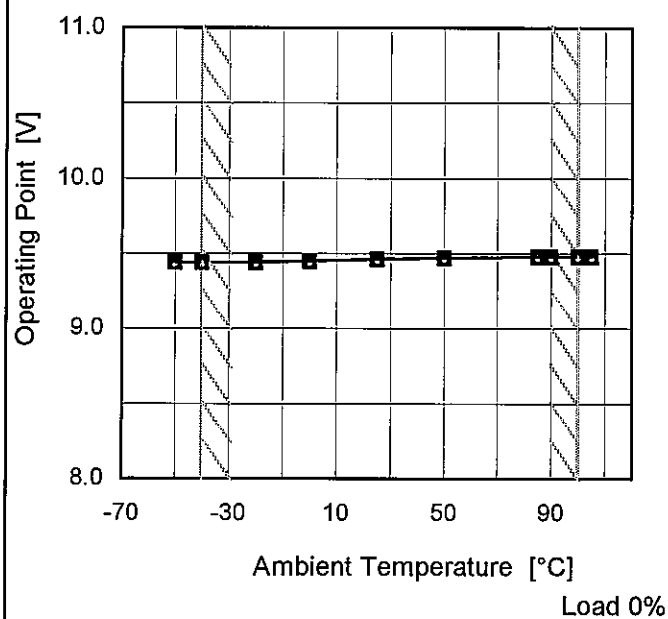
2. Values

| Output Voltage [V] | Load Current [A] | | |
|--------------------|--------------------|--------------------|--------------------|
| | Input Volt. 200[V] | Input Volt. 280[V] | Input Volt. 400[V] |
| 7.50 | 33.51 | 33.23 | 33.22 |
| 7.13 | 50.34 | 49.11 | 48.28 |
| 6.75 | 50.32 | 49.19 | 48.08 |
| 6.00 | 50.73 | 49.32 | 48.02 |
| 5.25 | 51.28 | 49.68 | 47.63 |
| 4.50 | 51.96 | 50.16 | 47.16 |
| -- | - | - | - |
| -- | - | - | - |
| -- | - | - | - |
| -- | - | - | - |
| -- | - | - | - |
| -- | - | - | - |

| | |
|--------|------------------------|
| Model | DHS250B07 |
| Item | Overvoltage Protection |
| Object | +7.5V33A |

1.Graph

—△— Input Volt. 200V
 ---□--- Input Volt. 280V
 -○- Input Volt. 400V



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

Testing Circuitry Figure A

2.Values

| Ambient Temperature [°C] | Operating Point [V] | | |
|--------------------------|---------------------|--------------------|--------------------|
| | Input Volt. 200[V] | Input Volt. 280[V] | Input Volt. 400[V] |
| -50 | 9.44 | 9.44 | 9.44 |
| -40 | 9.44 | 9.44 | 9.44 |
| -20 | 9.44 | 9.44 | 9.44 |
| 0 | 9.45 | 9.45 | 9.45 |
| 25 | 9.46 | 9.46 | 9.46 |
| 50 | 9.47 | 9.47 | 9.47 |
| 85 | 9.48 | 9.48 | 9.48 |
| 90 | 9.48 | 9.48 | 9.48 |
| 100 | 9.48 | 9.48 | 9.48 |
| 105 | 9.48 | 9.48 | 9.48 |
| -- | - | - | - |

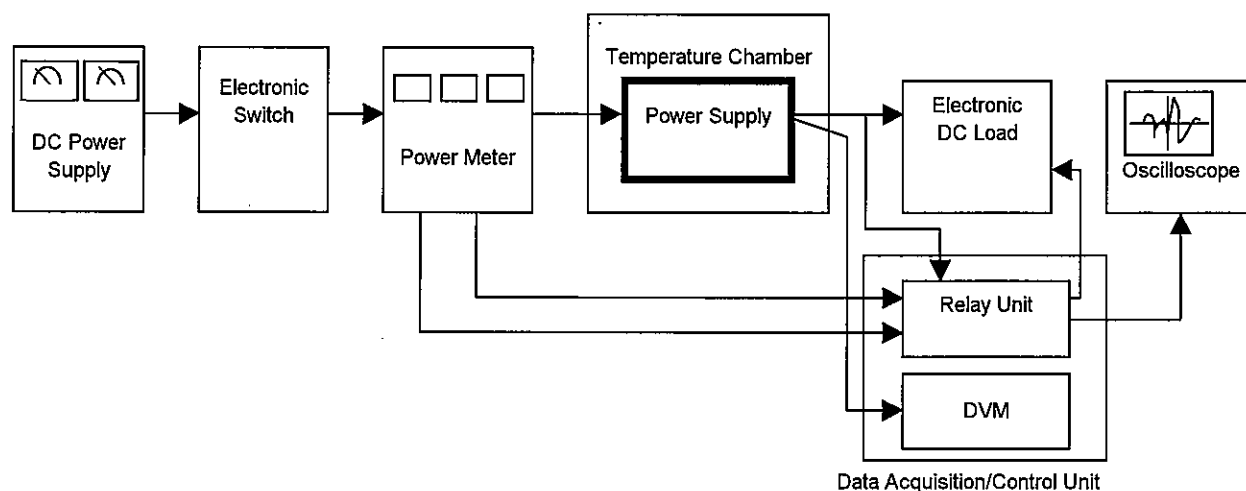


Figure A

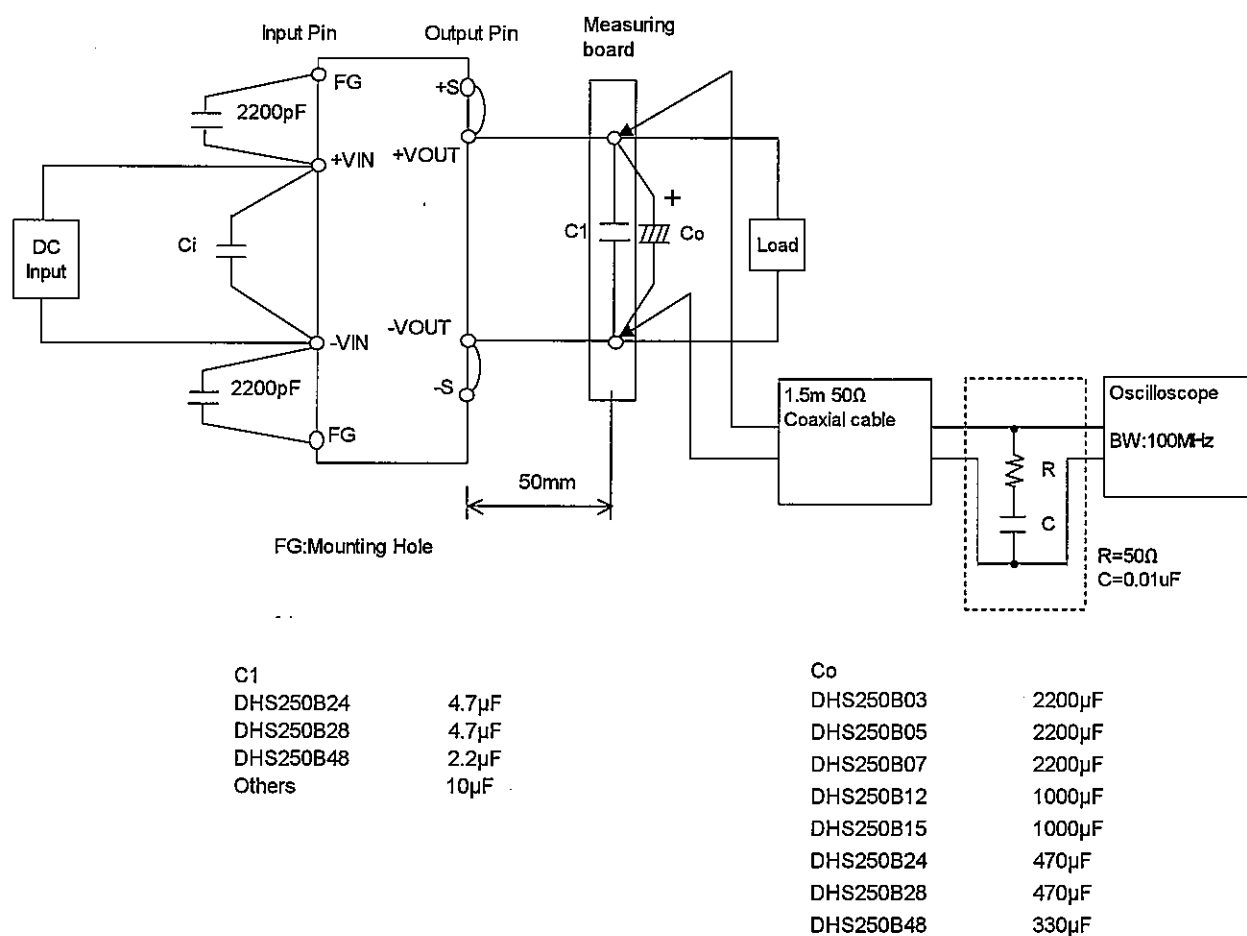


Figure B