



TEST DATA OF VAF524

(200V INPUT)

Regulated DC Power Supply

Date : Aug. 6. 1999

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COSEL CO., LTD.

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(Final Page 19)

COSEL

| Model | | VAF524 | | Temperature | | 25℃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------|---------------------------|--|--|--|----------|--|----------------------|-----------------------|--|----------|-----------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|-----|--------|--------|
| Item | | Line Regulation 静の入力変動 | | Testing Circuitry | | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | +24.0V0.22A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | | | | 2. Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div>-----□----- Load 50%</div><div>-----△----- Load 100%</div></div> <div><p>[V]</p><p>Output Voltage</p><p>Input Voltage [V]</p><p>Note: Slanted line shows the range of the rated input voltage.</p><p>(注)斜線は定格入力電圧範囲を示す。</p></div> | | | | <table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Output Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>150</td><td>23.917</td><td>23.916</td></tr><tr><td>160</td><td>23.917</td><td>23.916</td></tr><tr><td>170</td><td>23.917</td><td>23.916</td></tr><tr><td>180</td><td>23.917</td><td>23.916</td></tr><tr><td>200</td><td>23.917</td><td>23.917</td></tr><tr><td>220</td><td>23.917</td><td>23.917</td></tr><tr><td>240</td><td>23.917</td><td>23.917</td></tr><tr><td>264</td><td>23.917</td><td>23.917</td></tr><tr><td>280</td><td>23.917</td><td>23.917</td></tr></table> | | | | Input Voltage [V] | Output Voltage [V] | | Load 50% | Load 100% | 150 | 23.917 | 23.916 | 160 | 23.917 | 23.916 | 170 | 23.917 | 23.916 | 180 | 23.917 | 23.916 | 200 | 23.917 | 23.917 | 220 | 23.917 | 23.917 | 240 | 23.917 | 23.917 | 264 | 23.917 | 23.917 | 280 | 23.917 | 23.917 |
| Input Voltage [V] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 150 | 23.917 | 23.916 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 160 | 23.917 | 23.916 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 170 | 23.917 | 23.916 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 180 | 23.917 | 23.916 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 23.917 | 23.917 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 220 | 23.917 | 23.917 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 240 | 23.917 | 23.917 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 264 | 23.917 | 23.917 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 280 | 23.917 | 23.917 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|--------|--|
| Model | VAF524 |
| Item | Input Current (by Load Current) 入力電流 (負荷特性) |
| Object | _____ |

| | |
|-------------------|----------|
| Temperature | 25℃ |
| Testing Circuitry | Figure A |

1. Graph

—△—

Input Volt. 170V

---□---

Input Volt. 200V

---○---

Input Volt. 264V

Input Current [A]

Load Current [A]

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

(注)斜線は定格負荷電流範囲を示す。

2. Values

| Load Current [A] | Input Current [A] | | |
|---------------------|-----------------------|-----------------------|-----------------------|
| | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] |
| 0.000 | 0.013 | 0.013 | 0.014 |
| 0.040 | 0.029 | 0.027 | 0.025 |
| 0.080 | 0.040 | 0.037 | 0.035 |
| 0.120 | 0.057 | 0.052 | 0.045 |
| 0.160 | 0.067 | 0.062 | 0.055 |
| 0.200 | 0.080 | 0.073 | 0.062 |
| 0.220 | 0.087 | 0.079 | 0.066 |
| 0.242 | 0.094 | 0.085 | 0.072 |
| — | — | — | — |
| — | — | — | — |
| — | — | — | — |
| — | — | — | — |

COSEL

| Model | | VAF524 | | Temperature | | 25℃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------|---|-----------------------|---|--|----------|--|---------------------|-----------------|--|--|-----------------------|-----------------------|-----------------------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | | Input Power (by Load Current) 入力電力（負荷特性） | | Testing Circuitry | | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | | | | 2. Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div>△</div><div>Input Volt. 170V</div></div><div><div>□</div><div>Input Volt. 200V</div></div><div><div>○</div><div>Input Volt. 264V</div></div></div> <div><div><div>[W]</div><div>10</div><div>8</div><div>6</div><div>4</div><div>2</div><div>0</div></div><div><div>0</div><div>0.05</div><div>0.1</div><div>0.15</div><div>0.2</div><div>0.25</div><div>0.3</div></div></div> <div><div>Input Power</div><div>Load Current</div></div> <div>[A]</div> <div>Note: Slanted line shows the range of the rated load current.</div> <div>(注)斜線は定格負荷電流範囲を示す。</div> | | | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Power [W]</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>0.000</td><td>0.60</td><td>0.70</td><td>0.90</td></tr><tr><td>0.040</td><td>1.70</td><td>1.70</td><td>1.90</td></tr><tr><td>0.080</td><td>2.50</td><td>2.60</td><td>2.90</td></tr><tr><td>0.120</td><td>3.80</td><td>3.90</td><td>4.00</td></tr><tr><td>0.160</td><td>4.70</td><td>4.80</td><td>5.10</td></tr><tr><td>0.200</td><td>5.80</td><td>5.80</td><td>5.90</td></tr><tr><td>0.220</td><td>6.40</td><td>6.40</td><td>6.40</td></tr><tr><td>0.242</td><td>7.00</td><td>7.10</td><td>7.20</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. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | 0.000 | 0.60 | 0.70 | 0.90 | 0.040 | 1.70 | 1.70 | 1.90 | 0.080 | 2.50 | 2.60 | 2.90 | 0.120 | 3.80 | 3.90 | 4.00 | 0.160 | 4.70 | 4.80 | 5.10 | 0.200 | 5.80 | 5.80 | 5.90 | 0.220 | 6.40 | 6.40 | 6.40 | 0.242 | 7.00 | 7.10 | 7.20 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Load Current [A] | Input Power [W] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.000 | 0.60 | 0.70 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.040 | 1.70 | 1.70 | 1.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.080 | 2.50 | 2.60 | 2.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.120 | 3.80 | 3.90 | 4.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.160 | 4.70 | 4.80 | 5.10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.200 | 5.80 | 5.80 | 5.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.220 | 6.40 | 6.40 | 6.40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.242 | 7.00 | 7.10 | 7.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

(注) 斜線は定格負荷電流範囲を示す。

COSEL

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|--------|--|---|--|
| Model | | VAF524 | |
| Item | | Efficiency (by Input Voltage) 効率（入力電圧特性） | |
| Object | | | |

1. Graph

-----□-----

Load 50%

-----△-----

Load 100%

Efficiency

[%]

86

82

78

74

70

66

62

58

140

160

180

200

220

240

260

280

300

Input Voltage

[V]

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

(注)斜線は定格入力電圧範囲を示す。

2. Values

| Input Voltage [V] | Efficiency [%] | |
|----------------------|-------------------|-----------|
| | Load 50% | Load 100% |
| 150 | 75.0 | 81.8 |
| 160 | 74.9 | 81.9 |
| 170 | 75.6 | 81.9 |
| 180 | 75.2 | 81.8 |
| 200 | 74.9 | 81.7 |
| 220 | 75.1 | 82.0 |
| 240 | 73.1 | 81.8 |
| 264 | 72.9 | 82.2 |
| 280 | 72.7 | 81.6 |

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| Model | | VAF524 | | Temperature | | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------|---|--------------------|---|--|----------|--|------------------|----------------|--|--|--------------------|--------------------|--------------------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | | Efficiency (by Load Current) 効率 (負荷特性) | | Testing Circuitry | | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | | | | 2. Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div>—△—</div>Input Volt. 170V</div> <div><div>—□—</div>Input Volt. 200V</div> <div><div>—○—</div>Input Volt. 264V</div> <p>Efficiency [%]</p> <p>Load Current [A]</p> <p>Note: Slanted line shows the range of the rated load current.</p> <p>(注) 斜線は定格負荷電流範囲を示す。</p> | | | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Efficiency [%]</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>0.040</td><td>56.4</td><td>56.5</td><td>50.2</td></tr><tr><td>0.080</td><td>76.2</td><td>73.4</td><td>65.8</td></tr><tr><td>0.120</td><td>75.6</td><td>73.7</td><td>71.8</td></tr><tr><td>0.160</td><td>81.1</td><td>79.4</td><td>74.8</td></tr><tr><td>0.200</td><td>82.3</td><td>82.3</td><td>80.9</td></tr><tr><td>0.220</td><td>81.8</td><td>81.8</td><td>81.8</td></tr><tr><td>0.242</td><td>82.2</td><td>81.0</td><td>79.9</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table> | | | | Load Current [A] | Efficiency [%] | | | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | 0.040 | 56.4 | 56.5 | 50.2 | 0.080 | 76.2 | 73.4 | 65.8 | 0.120 | 75.6 | 73.7 | 71.8 | 0.160 | 81.1 | 79.4 | 74.8 | 0.200 | 82.3 | 82.3 | 80.9 | 0.220 | 81.8 | 81.8 | 81.8 | 0.242 | 82.2 | 81.0 | 79.9 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Load Current [A] | Efficiency [%] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.040 | 56.4 | 56.5 | 50.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.080 | 76.2 | 73.4 | 65.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.120 | 75.6 | 73.7 | 71.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.160 | 81.1 | 79.4 | 74.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.200 | 82.3 | 82.3 | 80.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.220 | 81.8 | 81.8 | 81.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.242 | 82.2 | 81.0 | 79.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| Model | | VAF524 | | Temperature | | 25℃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------|--|--|--|--|----------|--|-------------------|--------------|--|----------|-----------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|-----|------|------|
| Item | | Power Factor (by Input Voltage) 力率 (入力電圧特性) | | Testing Circuitry | | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | | | | 2. Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div>-----□-----</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div> <p>Power Factor</p> <p>Input Voltage [V]</p> <p>Note: Slanted line shows the range of the rated input voltage.</p> <p>(注)斜線は定格入力電圧範囲を示す。</p> | | | | <table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Power Factor</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>150</td><td>0.41</td><td>0.45</td></tr><tr><td>160</td><td>0.40</td><td>0.44</td></tr><tr><td>170</td><td>0.38</td><td>0.43</td></tr><tr><td>180</td><td>0.38</td><td>0.42</td></tr><tr><td>200</td><td>0.36</td><td>0.41</td></tr><tr><td>220</td><td>0.35</td><td>0.39</td></tr><tr><td>240</td><td>0.34</td><td>0.38</td></tr><tr><td>264</td><td>0.33</td><td>0.36</td></tr><tr><td>280</td><td>0.32</td><td>0.36</td></tr></table> | | | | Input Voltage [V] | Power Factor | | Load 50% | Load 100% | 150 | 0.41 | 0.45 | 160 | 0.40 | 0.44 | 170 | 0.38 | 0.43 | 180 | 0.38 | 0.42 | 200 | 0.36 | 0.41 | 220 | 0.35 | 0.39 | 240 | 0.34 | 0.38 | 264 | 0.33 | 0.36 | 280 | 0.32 | 0.36 |
| Input Voltage [V] | Power Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Load 50% | Load 100% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 150 | 0.41 | 0.45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 160 | 0.40 | 0.44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 170 | 0.38 | 0.43 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 180 | 0.38 | 0.42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 0.36 | 0.41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 220 | 0.35 | 0.39 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 240 | 0.34 | 0.38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 264 | 0.33 | 0.36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 280 | 0.32 | 0.36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| Model | | VAF524 | | Temperature | | 25℃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------|---|-----------------------|--|--|----------|--|---------------------|--------------|--|--|-----------------------|-----------------------|-----------------------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | | Power Factor (by Load Current) 力率 (負荷特性) | | Testing Circuitry | | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | | | | 2. Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div>—△—</div>Input Volt. 170V</div> <div><div>—□—</div>Input Volt. 200V</div> <div><div>—○—</div>Input Volt. 264V</div> <p>Note: Slanted line shows the range of the rated load current.</p> <p>(注)斜線は定格負荷電流範囲を示す。</p> | | | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Power Factor</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>0.000</td><td>0.27</td><td>0.27</td><td>0.24</td></tr><tr><td>0.040</td><td>0.35</td><td>0.31</td><td>0.29</td></tr><tr><td>0.080</td><td>0.36</td><td>0.35</td><td>0.32</td></tr><tr><td>0.120</td><td>0.39</td><td>0.38</td><td>0.34</td></tr><tr><td>0.160</td><td>0.41</td><td>0.38</td><td>0.35</td></tr><tr><td>0.200</td><td>0.42</td><td>0.40</td><td>0.36</td></tr><tr><td>0.220</td><td>0.43</td><td>0.41</td><td>0.36</td></tr><tr><td>0.242</td><td>0.44</td><td>0.42</td><td>0.38</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] | Power Factor | | | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | 0.000 | 0.27 | 0.27 | 0.24 | 0.040 | 0.35 | 0.31 | 0.29 | 0.080 | 0.36 | 0.35 | 0.32 | 0.120 | 0.39 | 0.38 | 0.34 | 0.160 | 0.41 | 0.38 | 0.35 | 0.200 | 0.42 | 0.40 | 0.36 | 0.220 | 0.43 | 0.41 | 0.36 | 0.242 | 0.44 | 0.42 | 0.38 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Load Current [A] | Power Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.000 | 0.27 | 0.27 | 0.24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.040 | 0.35 | 0.31 | 0.29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.080 | 0.36 | 0.35 | 0.32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.120 | 0.39 | 0.38 | 0.34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.160 | 0.41 | 0.38 | 0.35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.200 | 0.42 | 0.40 | 0.36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.220 | 0.43 | 0.41 | 0.36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.242 | 0.44 | 0.42 | 0.38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| | | | |
|----------|--|------------------------|--|
| Model | | VAF524 | |
| Item | | Hold-Up Time 出力保持時間 | |
| Object | | +24.0V0.22A | |
| 1. Graph | | 2. Values | |

-----□-----

Load 50%

-----△-----

Load 100%

Hold-Up Time [mS]

1000

100

10

1

140 160 180 200 220 240 260 280 300

Input Voltage [V]

This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.

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

出力保持時間とは、入力電圧断から出力電圧が、定電圧精度の規格範囲を保持しているところまでの時間。

(注)斜線は定格入力電圧範囲を示す。

| Input Voltage [V] | Hold-Up Time [mS] | |
|-------------------|-------------------|-----------|
| | Load 50% | Load 100% |
| 150 | 140 | 66 |
| 160 | 159 | 76 |
| 170 | 180 | 86 |
| 180 | 202 | 98 |
| 200 | 250 | 122 |
| 220 | 304 | 149 |
| 240 | 363 | 179 |
| 264 | 441 | 219 |
| 280 | 498 | 248 |

COSEL

| Model | | VAF524 | | Temperature | | 25℃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------|---|--------------------|--|--|----------|--|------------------|-----------|--|--|--------------------|--------------------|--------------------|-------|---|---|---|-------|-----|-----|-----|-------|-----|-----|-----|-------|-----|-----|-----|-------|-----|-----|-----|-------|-----|-----|-----|-------|----|-----|-----|-------|----|-----|-----|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | | Instantaneous Interruption Compensation 瞬時停電保障 | | Testing Circuitry | | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | +24.0V0.22A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | | | | 2. Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div>—△—</div><div>---□---</div><div>---○---</div></div> <div><div>Input Volt. 170 V</div><div>Input Volt. 200 V</div><div>Input Volt. 264 V</div></div> <p>[mS]</p> <p>Instantaneous Compensation Time</p> <p>Load Current [A]</p> | | | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [mS]</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>0.000</td><td>—</td><td>—</td><td>—</td></tr><tr><td>0.040</td><td>393</td><td>552</td><td>991</td></tr><tr><td>0.080</td><td>227</td><td>326</td><td>569</td></tr><tr><td>0.120</td><td>144</td><td>215</td><td>390</td></tr><tr><td>0.160</td><td>118</td><td>168</td><td>293</td></tr><tr><td>0.200</td><td>101</td><td>143</td><td>244</td></tr><tr><td>0.220</td><td>93</td><td>127</td><td>227</td></tr><tr><td>0.242</td><td>84</td><td>118</td><td>215</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] | Time [mS] | | | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | 0.000 | — | — | — | 0.040 | 393 | 552 | 991 | 0.080 | 227 | 326 | 569 | 0.120 | 144 | 215 | 390 | 0.160 | 118 | 168 | 293 | 0.200 | 101 | 143 | 244 | 0.220 | 93 | 127 | 227 | 0.242 | 84 | 118 | 215 | — | — | — | — | — | — | — | — | — | — | — | — |
| Load Current [A] | Time [mS] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.000 | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.040 | 393 | 552 | 991 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.080 | 227 | 326 | 569 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.120 | 144 | 215 | 390 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.160 | 118 | 168 | 293 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.200 | 101 | 143 | 244 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.220 | 93 | 127 | 227 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.242 | 84 | 118 | 215 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</p> <p>Note:Slanted line shows the range of the rated load current.</p> <p>瞬時停電保障時間とは、出力電圧が定電圧精度の規格範囲を保持している瞬時停電時間をいう。</p> <p>(注)斜線は定格負荷電流範囲を示す。</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| Model | | VAR524 | | Temperature | | 25℃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------|---------------------------|-----------------------|--|--|----------|--|------------------------|-----------------------|--|--|-----------------------|-----------------------|-----------------------|-------|--------|--------|--------|-------|--------|--------|--------|-------|--------|--------|--------|-------|--------|--------|--------|-------|--------|--------|--------|-------|--------|--------|--------|-------|--------|--------|--------|-------|--------|--------|--------|---|---|---|---|---|---|---|---|
| Item | | Load Regulation 静的負荷変動 | | Testing Circuitry | | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | +24.0V0.22A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | | | | 2. Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div>—△—</div><div>Input Volt. 170 V</div></div><div><div>---□---</div><div>Input Volt. 200 V</div></div><div><div>---○---</div><div>Input Volt. 264 V</div></div></div> <p>Note: Slanted line shows the range of the rated load current.</p> <p>(注)斜線は定格負荷電流範囲を示す。</p> | | | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>0.000</td><td>23.919</td><td>23.919</td><td>23.918</td></tr><tr><td>0.040</td><td>23.918</td><td>23.918</td><td>23.918</td></tr><tr><td>0.080</td><td>23.917</td><td>23.918</td><td>23.918</td></tr><tr><td>0.120</td><td>23.917</td><td>23.917</td><td>23.917</td></tr><tr><td>0.160</td><td>23.917</td><td>23.917</td><td>23.917</td></tr><tr><td>0.200</td><td>23.916</td><td>23.917</td><td>23.917</td></tr><tr><td>0.220</td><td>23.916</td><td>23.916</td><td>23.917</td></tr><tr><td>0.242</td><td>23.916</td><td>23.916</td><td>23.917</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table> | | | | Load Current [A] | Output Voltage [V] | | | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | 0.000 | 23.919 | 23.919 | 23.918 | 0.040 | 23.918 | 23.918 | 23.918 | 0.080 | 23.917 | 23.918 | 23.918 | 0.120 | 23.917 | 23.917 | 23.917 | 0.160 | 23.917 | 23.917 | 23.917 | 0.200 | 23.916 | 23.917 | 23.917 | 0.220 | 23.916 | 23.916 | 23.917 | 0.242 | 23.916 | 23.916 | 23.917 | — | — | — | — | — | — | — | — |
| Load Current [A] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.000 | 23.919 | 23.919 | 23.918 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.040 | 23.918 | 23.918 | 23.918 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.080 | 23.917 | 23.918 | 23.918 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.120 | 23.917 | 23.917 | 23.917 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.160 | 23.917 | 23.917 | 23.917 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.200 | 23.916 | 23.917 | 23.917 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.220 | 23.916 | 23.916 | 23.917 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.242 | 23.916 | 23.916 | 23.917 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| — | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| Model | | VAF524 | | Temperature Testing Circuitry | 25℃ Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------|---------------------------------|-----------------------|---|-----------------|-----------------------|---------------------|--|--|-----------------------|-----------------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|------|---|---|---|------|---|---|---|------|---|---|---|
| Item | | Overcurrent Protection 過電流保護 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | +24.0V0.22A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | | | | 2. Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div></div><div></div><div></div></div><div><div>Input Volt.170 V</div><div>Input Volt.200 V</div><div>Input Volt.264 V</div></div></div> <div><div>[V]</div><div>40.0</div><div>30.0</div><div>20.0</div><div>10.0</div><div>0.0</div></div> <div><div>Output Voltage</div><div></div><div></div><div></div><div></div><div></div></div> <div><div>0</div><div>0.5</div><div>1</div><div>1.5</div></div> <div><div></div><div>Load Current</div><div>[A]</div></div> | | | | <table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="3">Load Current [A]</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>24.00</td><td>0.701</td><td>0.750</td><td>0.850</td></tr><tr><td>22.80</td><td>0.710</td><td>0.770</td><td>0.862</td></tr><tr><td>21.60</td><td>0.721</td><td>0.791</td><td>0.879</td></tr><tr><td>19.20</td><td>0.753</td><td>0.819</td><td>0.912</td></tr><tr><td>16.80</td><td>0.788</td><td>0.850</td><td>0.952</td></tr><tr><td>14.40</td><td>0.831</td><td>0.909</td><td>1.002</td></tr><tr><td>12.00</td><td>0.904</td><td>0.992</td><td>1.103</td></tr><tr><td>9.60</td><td>1.004</td><td>1.180</td><td>1.304</td></tr><tr><td>7.20</td><td>1.202</td><td>1.300</td><td>1.403</td></tr><tr><td>4.80</td><td>—</td><td>—</td><td>—</td></tr><tr><td>2.40</td><td>—</td><td>—</td><td>—</td></tr><tr><td>0.00</td><td>—</td><td>—</td><td>—</td></tr></table> | | Output Voltage [V] | Load Current [A] | | | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | 24.00 | 0.701 | 0.750 | 0.850 | 22.80 | 0.710 | 0.770 | 0.862 | 21.60 | 0.721 | 0.791 | 0.879 | 19.20 | 0.753 | 0.819 | 0.912 | 16.80 | 0.788 | 0.850 | 0.952 | 14.40 | 0.831 | 0.909 | 1.002 | 12.00 | 0.904 | 0.992 | 1.103 | 9.60 | 1.004 | 1.180 | 1.304 | 7.20 | 1.202 | 1.300 | 1.403 | 4.80 | — | — | — | 2.40 | — | — | — | 0.00 | — | — | — |
| Output Voltage [V] | Load Current [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24.00 | 0.701 | 0.750 | 0.850 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22.80 | 0.710 | 0.770 | 0.862 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21.60 | 0.721 | 0.791 | 0.879 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19.20 | 0.753 | 0.819 | 0.912 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16.80 | 0.788 | 0.850 | 0.952 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14.40 | 0.831 | 0.909 | 1.002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12.00 | 0.904 | 0.992 | 1.103 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.60 | 1.004 | 1.180 | 1.304 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.20 | 1.202 | 1.300 | 1.403 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.80 | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.40 | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | — | — | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Note1: Slanted line shows the range of the rated load current.</p> <p>Note2: The lines shows peak current of intermittent operation of power supply when output voltage drops less than rated voltage value at overcurrent.</p> <p>(注1)斜線は定格負荷電流範囲を示す。</p> <p>(注2)垂下部分は間欠モード時のピーク電流を示す。</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Note1: Slanted line shows the range of the rated load current.

Note2: The lines shows peak current of intermittent operation of power supply when output voltage drops less than rated voltage value at overcurrent.

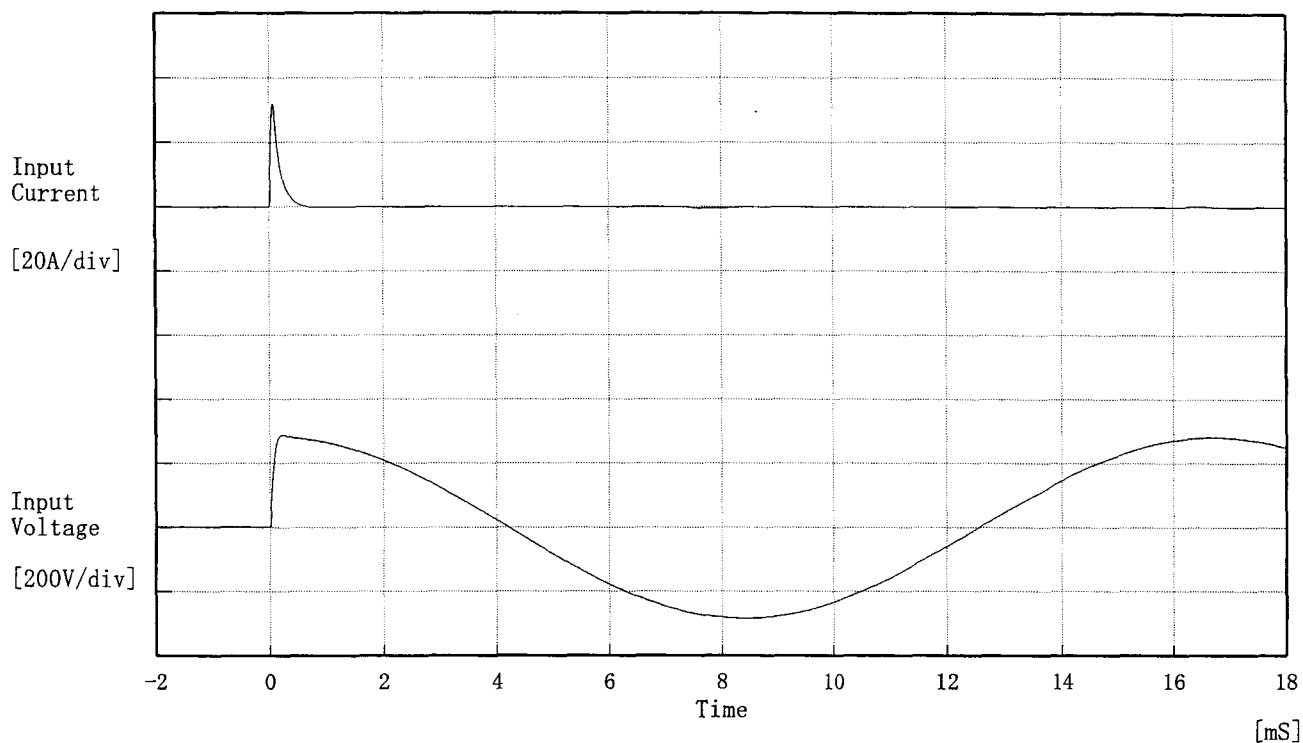
(注1) 斜線は定格負荷電流範囲を示す。

(注2) 垂下部分は間欠モード時のピーク電流を示す。

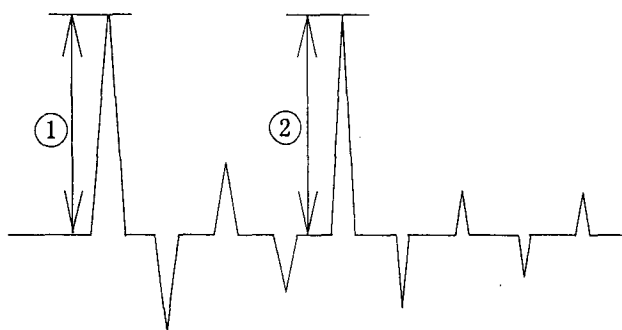
 | | Output Voltage [V] | Load Current [A] | | | |-----------------------|-----------------------|-----------------------|-----------------------| | | Input Volt. 170[V] | Input Volt. 200[V] | Input Volt. 264[V] | | 24.00 | 0.701 | 0.750 | 0.850 | | 22.80 | 0.710 | 0.770 | 0.862 | | 21.60 | 0.721 | 0.791 | 0.879 | | 19.20 | 0.753 | 0.819 | 0.912 | | 16.80 | 0.788 | 0.850 | 0.952 | | 14.40 | 0.831 | 0.909 | 1.002 | | 12.00 | 0.904 | 0.992 | 1.103 | | 9.60 | 1.004 | 1.180 | 1.304 | | 7.20 | 1.202 | 1.300 | 1.403 | | 4.80 | — | — | — | | 2.40 | — | — | — | | 0.00 | — | — | — | | |

COSEL

| | | |
|--------|------------------------|--|
| Model | VAF524 | Temperature 25°C Testing Circuitry Figure A |
| Item | Inrush Current 突入電流 | |
| Object | _____ | |



Input Voltage 200 V
Frequency 60 Hz
Load 100 %
Inrush Current
① 31.93 [A]
② 0.59 [A]

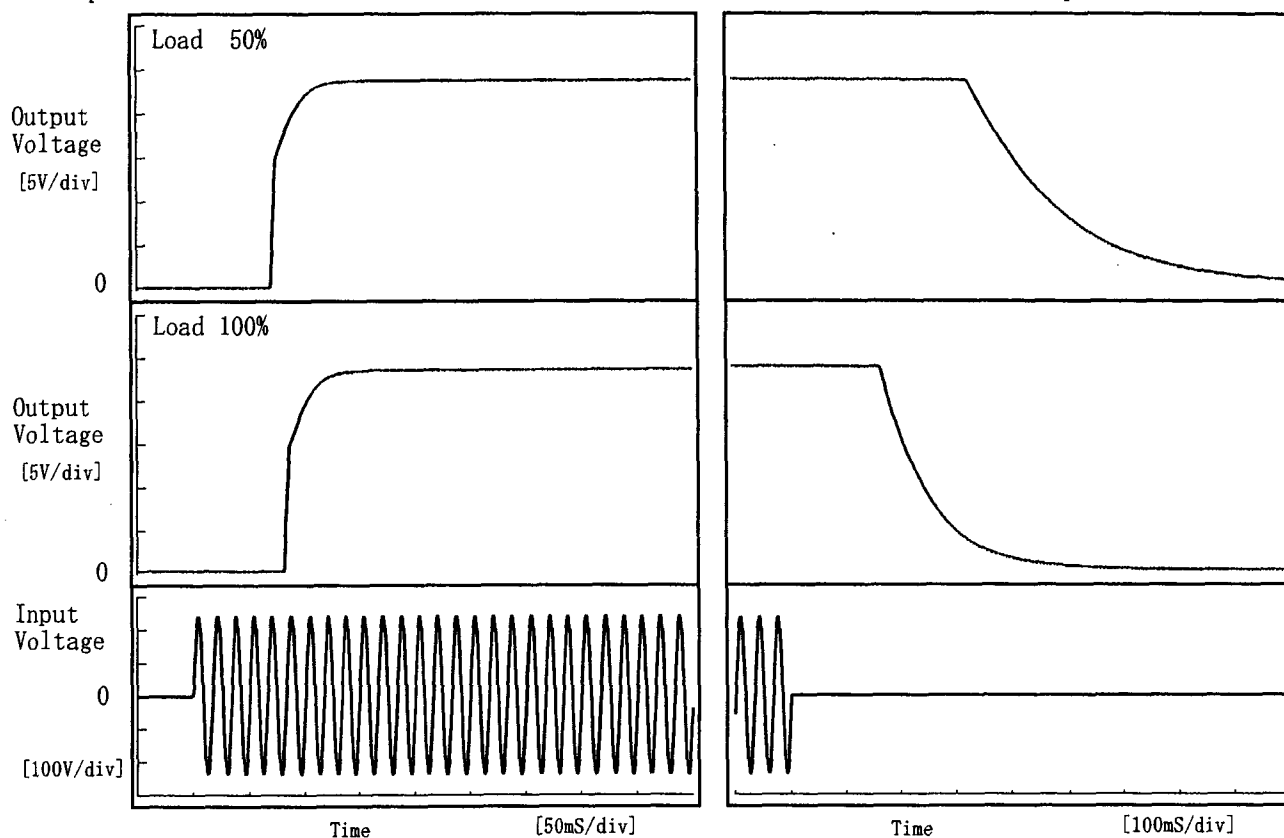


COSEL

| | | | |
|--------|---------------------------------|-------------------|----------|
| Model | VAF524 | Temperature | 25°C |
| Item | Rise and Fall Time 立上り、立下り時間 | Testing Circuitry | Figure A |
| Object | +24.0V0.22A | | |

1. Graph

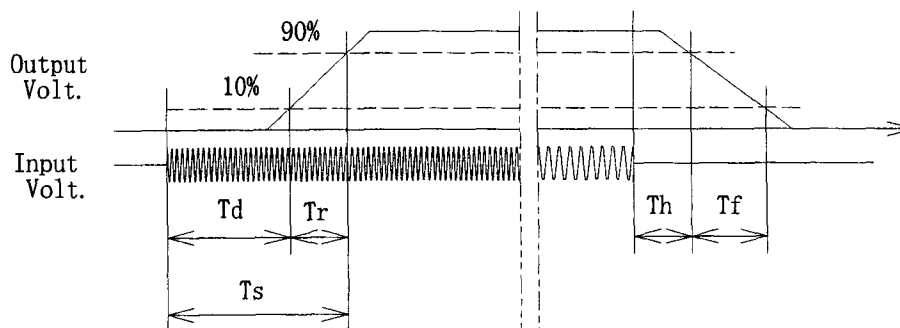
Input Volt. 170 V



2. Values

[mS]

| Load \ Time | T d | T r | T s | T h | T f |
|-------------|------|------|-------|-------|-------|
| 50 % | 71.3 | 28.5 | 99.8 | 171.0 | 184.5 |
| 100 % | 82.8 | 28.8 | 111.5 | 87.0 | 95.0 |



COSEL

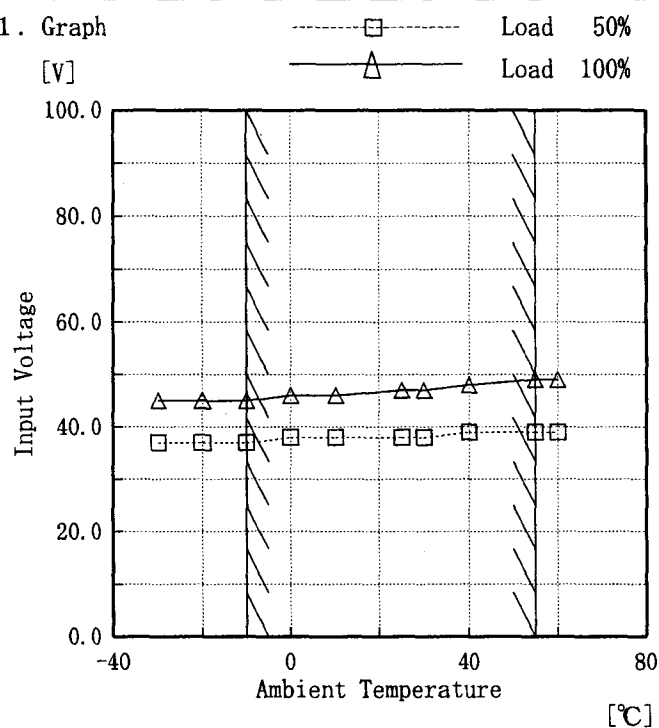
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----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| Model | | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model | Model |
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COSEL

| | |
|--------|--|
| Model | VAF524 |
| Item | Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧 |
| Object | +24.0V0.22A |

Testing Circuitry Figure A

1. Graph



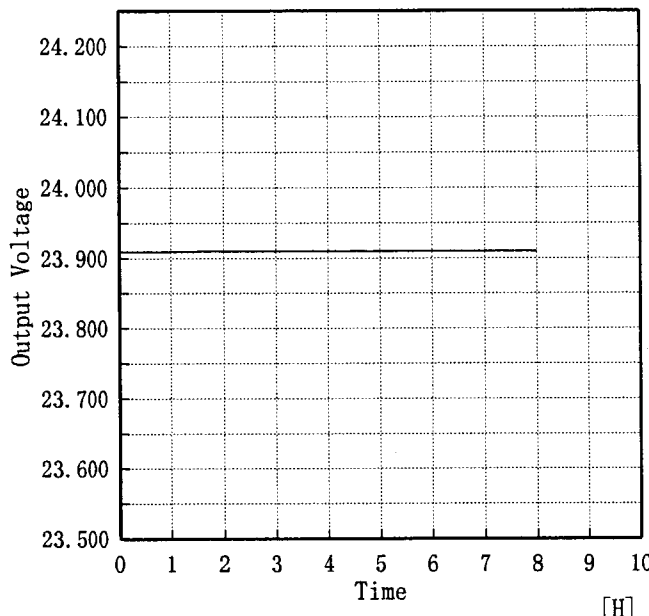
Note: Slanted line shows the range of the rated ambient temperature.

(注)斜線は定格周囲温度範囲を示す。

2. Values

| Ambient Temperature [°C] | Input Voltage [V] | |
|-----------------------------|----------------------|-----------|
| | Load 50% | Load 100% |
| -30 | 37 | 45 |
| -20 | 37 | 45 |
| -10 | 37 | 45 |
| 0 | 38 | 46 |
| 10 | 38 | 46 |
| 25 | 38 | 47 |
| 30 | 38 | 47 |
| 40 | 39 | 48 |
| 55 | 39 | 49 |
| 60 | 39 | 49 |
| — | — | — |

COSEL

| COSEL | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------------|--|----------|-------------------------|-----------------------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| Model | VAF524 | | | | | | | | | | | | | | | | | | | | | | | | |
| Item | Time Lapse Drift 経時ドリフト | Temperature | 25℃ | | | | | | | | | | | | | | | | | | | | | | |
| | | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | |
| Object | +24.0V0.22A | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | |
| <div>[V]</div> <div></div> <div>Output Voltage</div> <div>Time</div> <div>[H]</div> <div>Input Volt. 200V</div> <div>Load 100%</div> | | <table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>23.913</td></tr><tr><td>0.5</td><td>23.909</td></tr><tr><td>1.0</td><td>23.909</td></tr><tr><td>2.0</td><td>23.910</td></tr><tr><td>3.0</td><td>23.910</td></tr><tr><td>4.0</td><td>23.910</td></tr><tr><td>5.0</td><td>23.910</td></tr><tr><td>6.0</td><td>23.910</td></tr><tr><td>7.0</td><td>23.910</td></tr><tr><td>8.0</td><td>23.910</td></tr></table> | | Time since start [H] | Output Voltage [V] | 0.0 | 23.913 | 0.5 | 23.909 | 1.0 | 23.909 | 2.0 | 23.910 | 3.0 | 23.910 | 4.0 | 23.910 | 5.0 | 23.910 | 6.0 | 23.910 | 7.0 | 23.910 | 8.0 | 23.910 |
| Time since start [H] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 23.913 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 | 23.909 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0 | 23.909 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.0 | 23.910 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 23.910 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.0 | 23.910 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.0 | 23.910 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.0 | 23.910 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0 | 23.910 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.0 | 23.910 | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| | | | |
|--------|--|----------------------------------|-------------------------------|
| Model | | VAF524 | Testing Circuitry Figure A |
| Item | | Output Voltage Accuracy 定電圧精度 | |
| Object | | +24.0V 0.22A | |

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 : -10~55 °C

Input Voltage : 170~264 V

Load Current : 0~0.22 A

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

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

1. 定電圧精度

周囲温度、入力電圧、負荷電流を下記仕様内で、任意に変動させたときの出力電圧の変動をいう。

周囲温度 -10~55 °C

入力電圧 170~264 V

負荷電流 0~0.22 A

* 定電圧精度(変動値) = $\pm (\text{出力電圧の最高値} - \text{出力電圧の最低値}) / 2$

* 定電圧精度(変動率) = $\frac{\text{変動値}}{\text{定格出力電圧}} \times 100$

2. Values

| Item | Temperature [°C] | Input Voltage [V] | Output Current [A] | Output Voltage [V] | Output Voltage Accuracy [mV] | Output Voltage Accuracy(Ration) [%] |
|-----------------|---------------------|----------------------|-----------------------|-----------------------|---------------------------------|--|
| Maximum Voltage | -10 | 264 | 0.00 | 23.951 | ±42 | ±0.2 |
| Minimum Voltage | 55 | 264 | 0.22 | 23.868 | | |

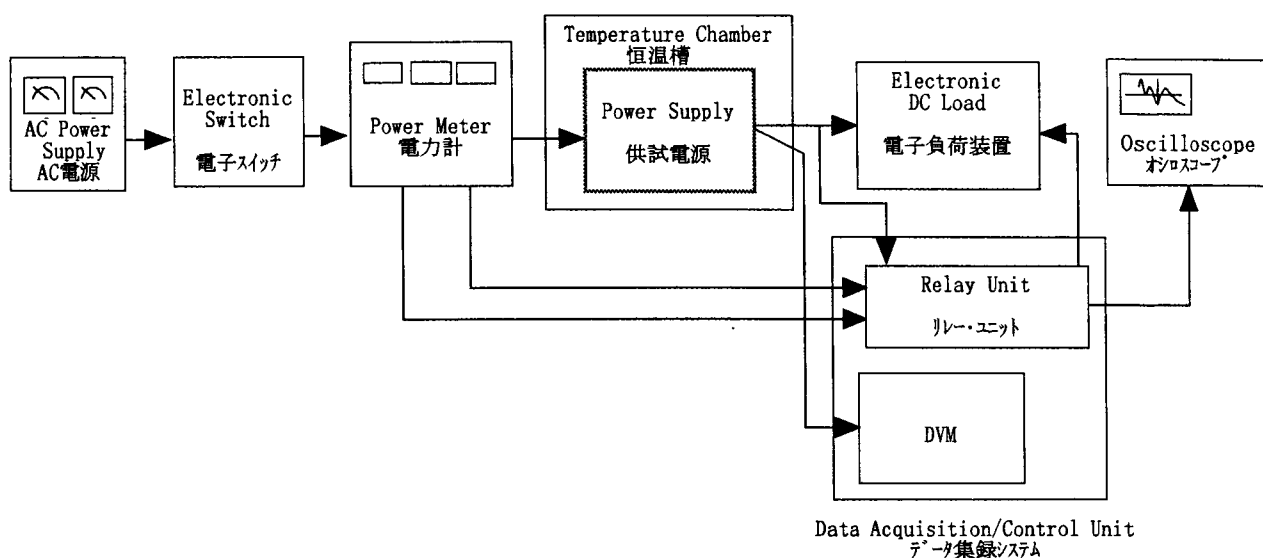


Figure A

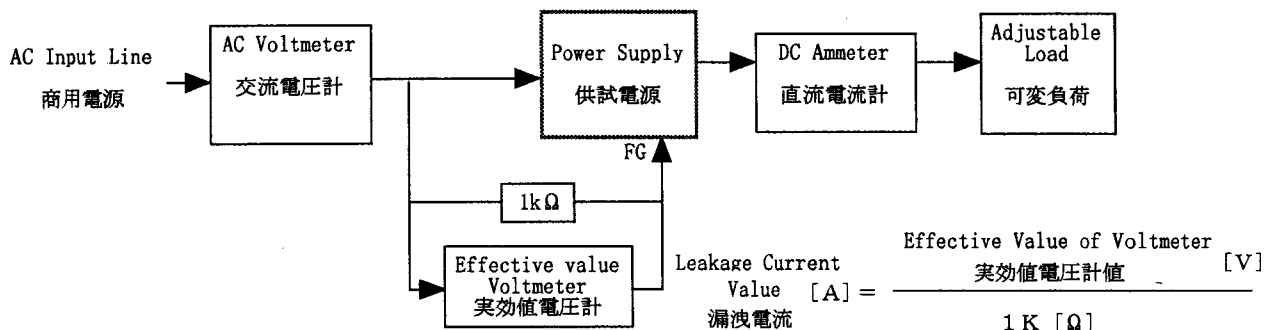


Figure B (DENTORI)

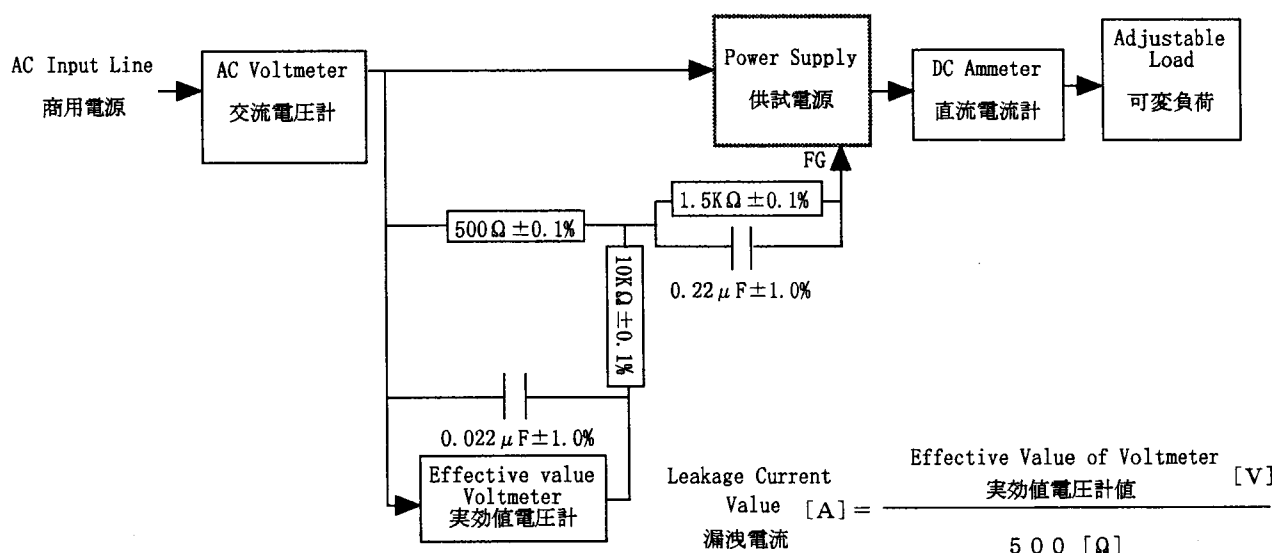


Figure B (IEC60950)

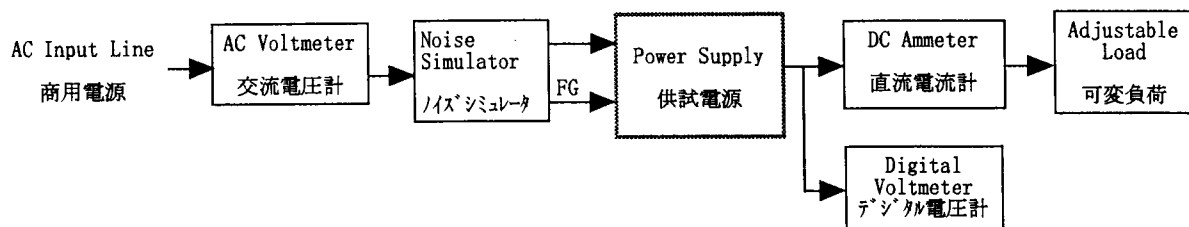


Figure C

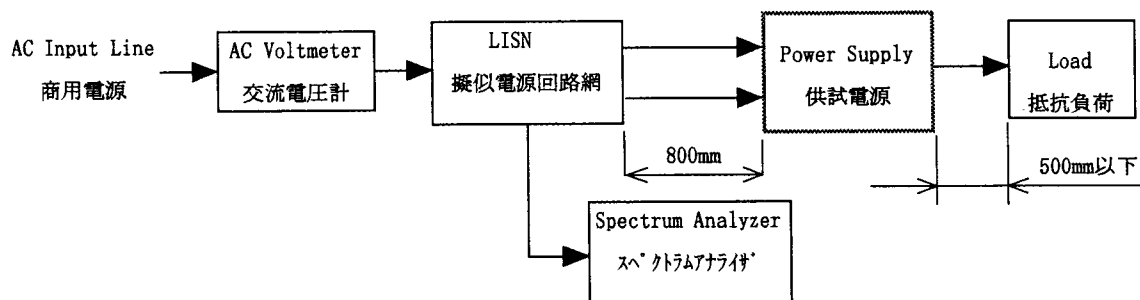


Figure D

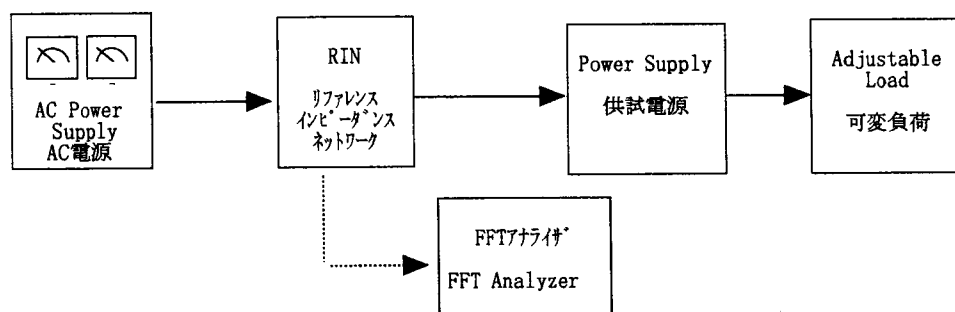


Figure E