



TEST DATA OF FDA75F-24

Regulated DC Power Supply
May 21, 2026

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Design Manager

Prepared by : Ryoki Nakanishi
Design Engineer

COSEL CO.,LTD.



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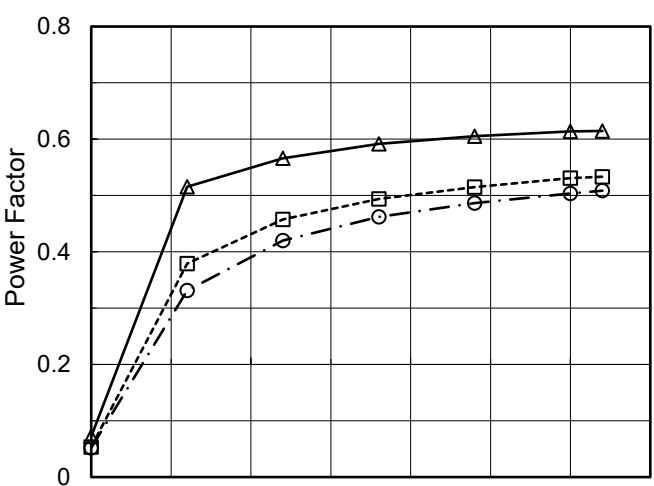
COSEL

| Model | | FDA75F-24 | Temperature | | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------|--|--------------------|--|------------------|-------------------|--|--|--------------------|--------------------|--------------------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|
| Item | | Input Current (by Load Current) | Testing Circuitry | | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | <div><div><div>—△—</div><div>Input Volt.</div><div>200V</div></div><div><div>---□---</div><div>Input Volt.</div><div>400V</div></div><div><div>-·-○-·-</div><div>Input Volt.</div><div>480V</div></div></div> | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div>Input Current [A]</div><div><div>Load Current [A]</div></div></div> | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Current [A]</th></tr><tr><th>Input Volt. 200[V]</th><th>Input Volt. 400[V]</th><th>Input Volt. 480[V]</th></tr><tr><td>0.0</td><td>0.032</td><td>0.064</td><td>0.076</td></tr><tr><td>0.6</td><td>0.163</td><td>0.118</td><td>0.117</td></tr><tr><td>1.2</td><td>0.292</td><td>0.186</td><td>0.172</td></tr><tr><td>1.8</td><td>0.416</td><td>0.256</td><td>0.230</td></tr><tr><td>2.4</td><td>0.546</td><td>0.321</td><td>0.287</td></tr><tr><td>3.0</td><td>0.675</td><td>0.392</td><td>0.344</td></tr><tr><td>3.2</td><td>0.719</td><td>0.410</td><td>0.366</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table> | | | Load Current [A] | Input Current [A] | | | Input Volt. 200[V] | Input Volt. 400[V] | Input Volt. 480[V] | 0.0 | 0.032 | 0.064 | 0.076 | 0.6 | 0.163 | 0.118 | 0.117 | 1.2 | 0.292 | 0.186 | 0.172 | 1.8 | 0.416 | 0.256 | 0.230 | 2.4 | 0.546 | 0.321 | 0.287 | 3.0 | 0.675 | 0.392 | 0.344 | 3.2 | 0.719 | 0.410 | 0.366 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Load Current [A] | Input Current [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 200[V] | Input Volt. 400[V] | Input Volt. 480[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 0.032 | 0.064 | 0.076 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.6 | 0.163 | 0.118 | 0.117 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | 0.292 | 0.186 | 0.172 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.8 | 0.416 | 0.256 | 0.230 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4 | 0.546 | 0.321 | 0.287 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 0.675 | 0.392 | 0.344 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.2 | 0.719 | 0.410 | 0.366 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

| Model | | FDA75F-24 | Temperature | | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---------------------|---|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|--------------------|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|----|---|---|----|----|---|---|----|----|---|---|----|----------|---|---|--|--|
| Item | | Efficiency (by Load Current) | Testing Circuitry | | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | <div><div><div>—△—</div><div>Input Volt.</div><div>200V</div></div><div><div>---□---</div><div>Input Volt.</div><div>400V</div></div><div><div>-·-○-·-</div><div>Input Volt.</div><div>480V</div></div></div> <div><table><thead><tr><th>Load Current [A]</th><th>200V Efficiency [%]</th><th>400V Efficiency [%]</th><th>480V Efficiency [%]</th></tr></thead><tbody><tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.6</td><td>86.8</td><td>81.6</td><td>78.2</td></tr><tr><td>1.2</td><td>87.8</td><td>85.2</td><td>83.5</td></tr><tr><td>1.8</td><td>88.1</td><td>85.9</td><td>85.2</td></tr><tr><td>2.4</td><td>87.5</td><td>87.5</td><td>86.3</td></tr><tr><td>3.0</td><td>87.2</td><td>86.6</td><td>86.8</td></tr><tr><td>3.2</td><td>87.2</td><td>88.1</td><td>86.1</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></div> | Load Current [A] | 200V Efficiency [%] | 400V Efficiency [%] | 480V Efficiency [%] | 0.0 | - | - | - | 0.6 | 86.8 | 81.6 | 78.2 | 1.2 | 87.8 | 85.2 | 83.5 | 1.8 | 88.1 | 85.9 | 85.2 | 2.4 | 87.5 | 87.5 | 86.3 | 3.0 | 87.2 | 86.6 | 86.8 | 3.2 | 87.2 | 88.1 | 86.1 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - | 2.Values | | | | |
| Load Current [A] | 200V Efficiency [%] | 400V Efficiency [%] | 480V Efficiency [%] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.6 | 86.8 | 81.6 | 78.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | 87.8 | 85.2 | 83.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.8 | 88.1 | 85.9 | 85.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4 | 87.5 | 87.5 | 86.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 87.2 | 86.6 | 86.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.2 | 87.2 | 88.1 | 86.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table><thead><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Efficiency [%]</th></tr><tr><th>Input Volt. 200[V]</th><th>Input Volt. 400[V]</th><th>Input Volt. 480[V]</th></tr></thead><tbody><tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.6</td><td>86.8</td><td>81.6</td><td>78.2</td></tr><tr><td>1.2</td><td>87.8</td><td>85.2</td><td>83.5</td></tr><tr><td>1.8</td><td>88.1</td><td>85.9</td><td>85.2</td></tr><tr><td>2.4</td><td>87.5</td><td>87.5</td><td>86.3</td></tr><tr><td>3.0</td><td>87.2</td><td>86.6</td><td>86.8</td></tr><tr><td>3.2</td><td>87.2</td><td>88.1</td><td>86.1</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] | Efficiency [%] | | | Input Volt. 200[V] | Input Volt. 400[V] | Input Volt. 480[V] | 0.0 | - | - | - | 0.6 | 86.8 | 81.6 | 78.2 | 1.2 | 87.8 | 85.2 | 83.5 | 1.8 | 88.1 | 85.9 | 85.2 | 2.4 | 87.5 | 87.5 | 86.3 | 3.0 | 87.2 | 86.6 | 86.8 | 3.2 | 87.2 | 88.1 | 86.1 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - | | |
| Load Current [A] | Efficiency [%] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 200[V] | Input Volt. 400[V] | Input Volt. 480[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.6 | 86.8 | 81.6 | 78.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | 87.8 | 85.2 | 83.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.8 | 88.1 | 85.9 | 85.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4 | 87.5 | 87.5 | 86.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 87.2 | 86.6 | 86.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.2 | 87.2 | 88.1 | 86.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COSEL

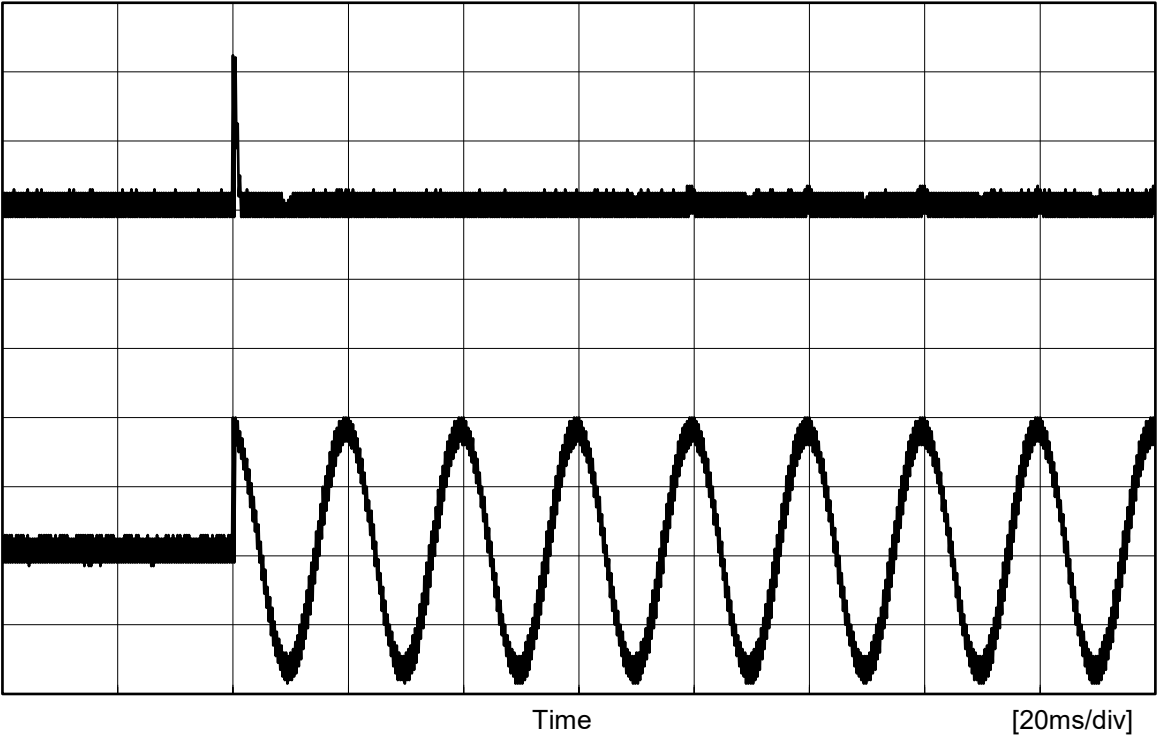
| Model | | FDA75F-24 | Temperature | | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|--------------------|--|--------------------|--|---|------------------|--------------|--|--|--------------------|--------------------|--------------------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|
| Item | | Power Factor (by Load Current) | Testing Circuitry | | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | <div><div><div>—△—</div><div>Input Volt.</div><div>200V</div></div><div><div>---□---</div><div>Input Volt.</div><div>400V</div></div><div><div>-·-○-·-</div><div>Input Volt.</div><div>480V</div></div></div>  <div>Power Factor</div> <div>Load Current [A]</div> | 2.Values | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Power Factor</th></tr><tr><th>Input Volt. 200[V]</th><th>Input Volt. 400[V]</th><th>Input Volt. 480[V]</th></tr><tr><td>0.0</td><td>0.072</td><td>0.054</td><td>0.052</td></tr><tr><td>0.6</td><td>0.515</td><td>0.379</td><td>0.331</td></tr><tr><td>1.2</td><td>0.566</td><td>0.457</td><td>0.420</td></tr><tr><td>1.8</td><td>0.591</td><td>0.494</td><td>0.462</td></tr><tr><td>2.4</td><td>0.606</td><td>0.515</td><td>0.487</td></tr><tr><td>3.0</td><td>0.614</td><td>0.531</td><td>0.504</td></tr><tr><td>3.2</td><td>0.615</td><td>0.533</td><td>0.509</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. 200[V] | Input Volt. 400[V] | Input Volt. 480[V] | 0.0 | 0.072 | 0.054 | 0.052 | 0.6 | 0.515 | 0.379 | 0.331 | 1.2 | 0.566 | 0.457 | 0.420 | 1.8 | 0.591 | 0.494 | 0.462 | 2.4 | 0.606 | 0.515 | 0.487 | 3.0 | 0.614 | 0.531 | 0.504 | 3.2 | 0.615 | 0.533 | 0.509 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Load Current [A] | Power Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 200[V] | Input Volt. 400[V] | Input Volt. 480[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 0.072 | 0.054 | 0.052 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.6 | 0.515 | 0.379 | 0.331 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | 0.566 | 0.457 | 0.420 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.8 | 0.591 | 0.494 | 0.462 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4 | 0.606 | 0.515 | 0.487 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 0.614 | 0.531 | 0.504 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.2 | 0.615 | 0.533 | 0.509 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| | | | |
|--------|--|----------------|--|
| Model | | FDA75F-24 | Temperature 25°C Testing Circuitry Figure A |
| Item | | Inrush Current | |
| Object | | _____ | |

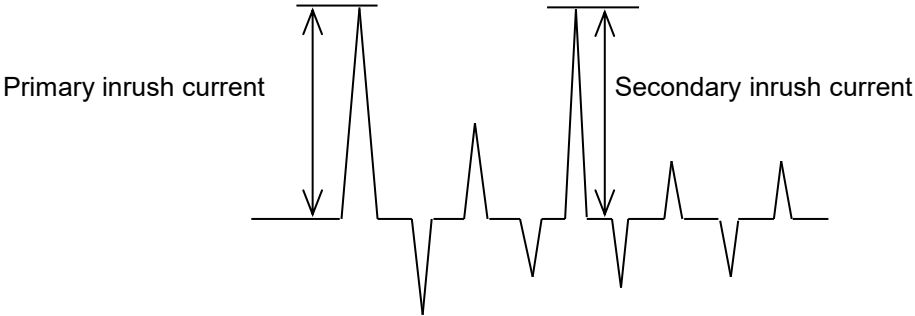
Input
Current
[20A/div]

Input
Voltage
[300V/div]




Input Voltage 400 V
Frequency 50 Hz
Load 100 %

Primary inrush current 44.8 A
Secondary inrush current 3.6 A





| | | |
|---|-----------------|---|
|  | | <div> <div>Temperature</div> <div>25°C</div> </div> <div> <div>Testing Circuitry</div> <div>Figure C</div> </div> |
| Model | FDA75F-24 | |
| Item | Leakage Current | |
| Object | _____ | |

1. Results

| | | | | | | [mA] |
|------------|-------------------|------------------|-------------|---------|---------|-----------|
| Standards | Testing Circuitry | Measuring Method | Input Volt. | | | Note |
| | | | 200 [V] | 480 [V] | 528 [V] | |
| IEC62368-1 | Figure C-2 | Both phases | 0.16 | 0.40 | 0.44 | Operation |
| | | One of phases | 0.29 | 0.72 | 0.80 | Stand by |
| | Figure C-3 | Both phases | 0.16 | 0.40 | 0.44 | Operation |
| | | One of phases | 0.29 | 0.72 | 0.80 | Stand by |

The value for "One of phases" is the reference value only.

2. Condition

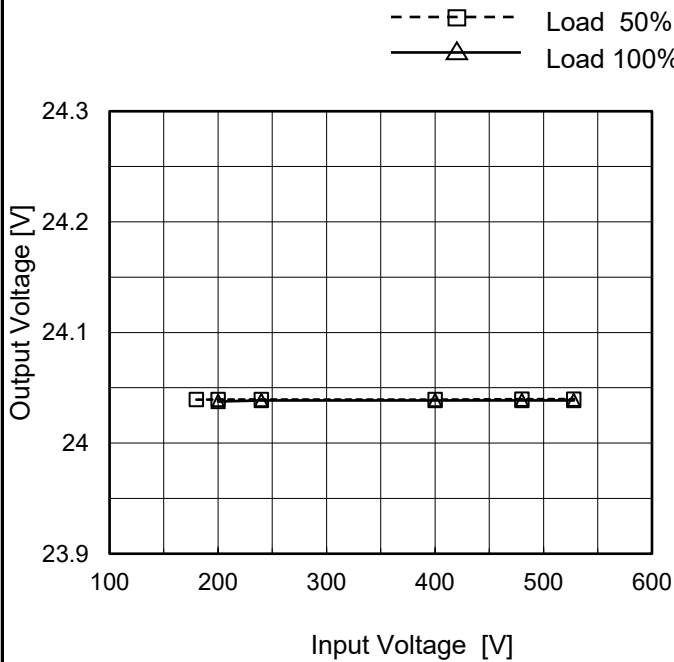
Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.



| | |
|--------|-----------------|
| Model | FDA75F-24 |
| Item | Line Regulation |
| Object | +24V3.2A |

Temperature 25°C
Testing Circuitry Figure A

1.Graph



2.Values

| Input Voltage [V] | Output Voltage [V] | |
|-------------------|--------------------|-----------|
| | Load 50% | Load 100% |
| 180 | 24.039 | - |
| 200 | 24.039 | 24.038 |
| 240 | 24.039 | 24.039 |
| 400 | 24.039 | 24.039 |
| 480 | 24.040 | 24.039 |
| 528 | 24.040 | 24.039 |
| -- | - | - |
| -- | - | - |
| -- | - | - |

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| Model | FDA75F-24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------|--|--------------------|--------------------|--|--|--------------------|--------------------|--------------------|-----|--------|--------|--------|-----|--------|--------|--------|-----|--------|--------|--------|-----|--------|--------|--------|-----|--------|--------|--------|-----|--------|--------|--------|-----|--------|--------|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Item | Load Regulation | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +24V3.2A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div><div>—△—</div><div>Input Volt. 200V</div></div><div><div>---□---</div><div>Input Volt. 400V</div></div><div><div>-·○-·-</div><div>Input Volt. 480V</div></div></div><div></div></div> | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 200[V]</th><th>Input Volt. 400[V]</th><th>Input Volt. 480[V]</th></tr><tr><td>0.0</td><td>24.046</td><td>24.045</td><td>24.046</td></tr><tr><td>0.6</td><td>24.044</td><td>24.044</td><td>24.044</td></tr><tr><td>1.2</td><td>24.043</td><td>24.043</td><td>24.043</td></tr><tr><td>1.8</td><td>24.042</td><td>24.042</td><td>24.042</td></tr><tr><td>2.4</td><td>24.041</td><td>24.041</td><td>24.041</td></tr><tr><td>3.0</td><td>24.040</td><td>24.040</td><td>24.039</td></tr><tr><td>3.2</td><td>24.039</td><td>24.039</td><td>24.039</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td></tr></table> | Load Current [A] | Output Voltage [V] | | | Input Volt. 200[V] | Input Volt. 400[V] | Input Volt. 480[V] | 0.0 | 24.046 | 24.045 | 24.046 | 0.6 | 24.044 | 24.044 | 24.044 | 1.2 | 24.043 | 24.043 | 24.043 | 1.8 | 24.042 | 24.042 | 24.042 | 2.4 | 24.041 | 24.041 | 24.041 | 3.0 | 24.040 | 24.040 | 24.039 | 3.2 | 24.039 | 24.039 | 24.039 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Load Current [A] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 200[V] | Input Volt. 400[V] | Input Volt. 480[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 24.046 | 24.045 | 24.046 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.6 | 24.044 | 24.044 | 24.044 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | 24.043 | 24.043 | 24.043 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.8 | 24.042 | 24.042 | 24.042 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4 | 24.041 | 24.041 | 24.041 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 24.040 | 24.040 | 24.039 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.2 | 24.039 | 24.039 | 24.039 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Item | Ripple-Noise | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Testing Circuitry | Figure B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +24V3.2A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div>Input Voltage 400V</div><div>Load 100%</div></div><div></div></div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

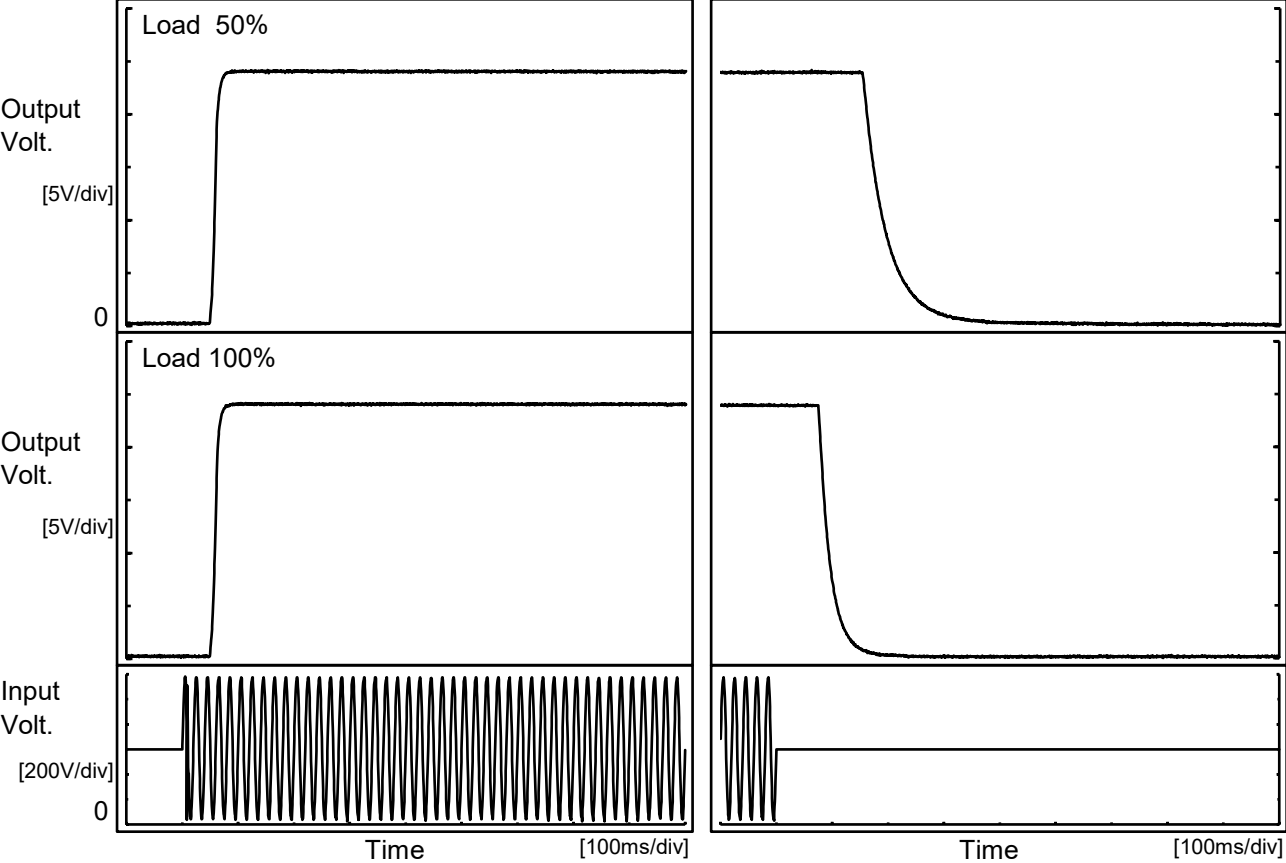
| | |
|--------|----------|
| Object | +24V3.2A |
|--------|----------|

10 ms/div



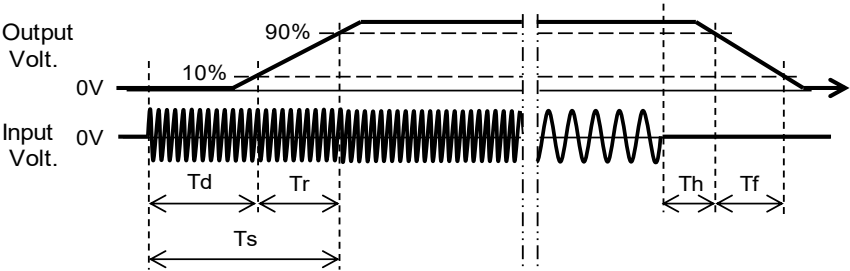
| | | | |
|--------|--|--------------------|--|
| Model | | FDA75F-24 | Temperature 25°C Testing Circuitry Figure A |
| Item | | Rise and Fall Time | |
| Object | | +24V3.2A | |

1.Graph



2.Values

| | | [ms] | | | | |
|-------|------|------|------|------|-------|------|
| Load | Time | Td | Tr | Ts | Th | Tf |
| 50 % | | 52.5 | 13.5 | 66.0 | 158.5 | 94.5 |
| 100 % | | 52.5 | 13.5 | 66.0 | 77.5 | 47.0 |



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| Model | | FDA75F-24 | Temperature | | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------|---|--|--|----------|------------------|-----------|--|--|--------------------|--------------------|--------------------|-----|---|---|---|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|----|-----|-----|----|----|-----|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|
| Item | | Instantaneous Interruption Compensation | Testing Circuitry | | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | +24V3.2A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div>—△—</div><div>Input Volt.</div><div>200V</div></div><div><div>---□---</div><div>Input Volt.</div><div>400V</div></div><div><div>-·-○-·-</div><div>Input Volt.</div><div>480V</div></div></div> <div><div><div>Instantaneous Compensation Time [ms]</div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div><div>0</div><div>1</div><div>2</div><div>3</div></div><div><div>Load Current [A]</div></div></div> | | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [ms]</th></tr><tr><th>Input Volt. 200[V]</th><th>Input Volt. 400[V]</th><th>Input Volt. 480[V]</th></tr><tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.6</td><td>90</td><td>412</td><td>598</td></tr><tr><td>1.2</td><td>44</td><td>208</td><td>305</td></tr><tr><td>1.8</td><td>28</td><td>138</td><td>205</td></tr><tr><td>2.4</td><td>18</td><td>101</td><td>151</td></tr><tr><td>3.0</td><td>13</td><td>78</td><td>119</td></tr><tr><td>3.2</td><td>12</td><td>74</td><td>112</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] | Time [ms] | | | Input Volt. 200[V] | Input Volt. 400[V] | Input Volt. 480[V] | 0.0 | - | - | - | 0.6 | 90 | 412 | 598 | 1.2 | 44 | 208 | 305 | 1.8 | 28 | 138 | 205 | 2.4 | 18 | 101 | 151 | 3.0 | 13 | 78 | 119 | 3.2 | 12 | 74 | 112 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Load Current [A] | Time [ms] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 200[V] | Input Volt. 400[V] | Input Volt. 480[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.6 | 90 | 412 | 598 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | 44 | 208 | 305 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.8 | 28 | 138 | 205 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4 | 18 | 101 | 151 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | 13 | 78 | 119 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.2 | 12 | 74 | 112 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| | | | |
|--------|--|------------------------|--|
| Model | | FDA75F-24 | |
| Item | | Overcurrent Protection | |
| Object | | +24V3.2A | |

1.Graph

△

Input Volt. 200V

□

Input Volt. 400V

○

Input Volt. 480V

Output Voltage [V]

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| | | | |
|---|--|-------------------------------|------------------|
| | | Testing Circuitry Figure A | |
| Model | FDA75F-24 | | |
| Item | Ambient Temperature Drift | | |
| Object | +24V3.2A | | |
| 1.Values Load 100% | | | |
| Ambient Temperature[°C] | Output Voltage [V] | | |
| | Input Volt. 200V | Input Volt. 400V | Input Volt. 480V |
| -20 | 23.968 | 23.971 | 23.972 |
| 25 | 24.033 | 24.033 | 24.033 |
| 50 | 24.065 | 24.066 | 24.065 |
| | | | |
| Item | Minimum Input Voltage for Regulated Output Voltage | Testing Circuitry Figure A | |
| Object | +24V3.2A | | |
| 1.Values | | | |
| Ambient Temperature[°C] | Input Voltage [V] | | |
| | Load 50% | Load 100% | |
| -20 | 125 | 144 | |
| 25 | 120 | 142 | |
| 50 | 119 | 136 | |
| | | | |
| Item | Overvoltage Protection | Testing Circuitry Figure A | |
| Object | +24V3.2A | | |
| 1.Values Load 0% | | | |
| Ambient Temperature[°C] | Operating Point [V] | | |
| | Input Volt. 200V | Input Volt. 480V | |
| -20 | 30.29 | 30.23 | |
| 25 | 31.41 | 31.35 | |
| 50 | 32.05 | 31.93 | |

- 13 -

BC-12246

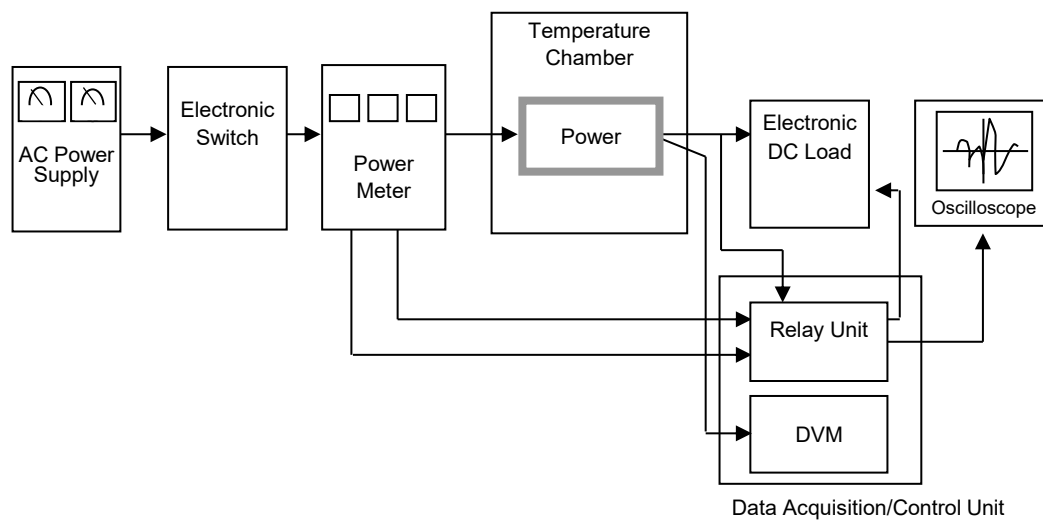


Figure A

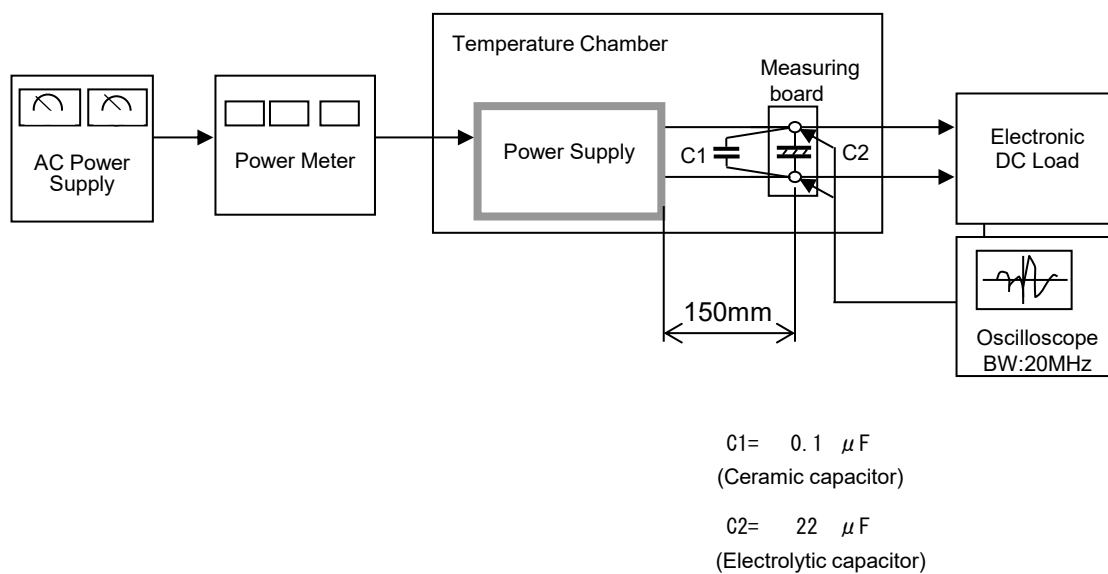


Figure B

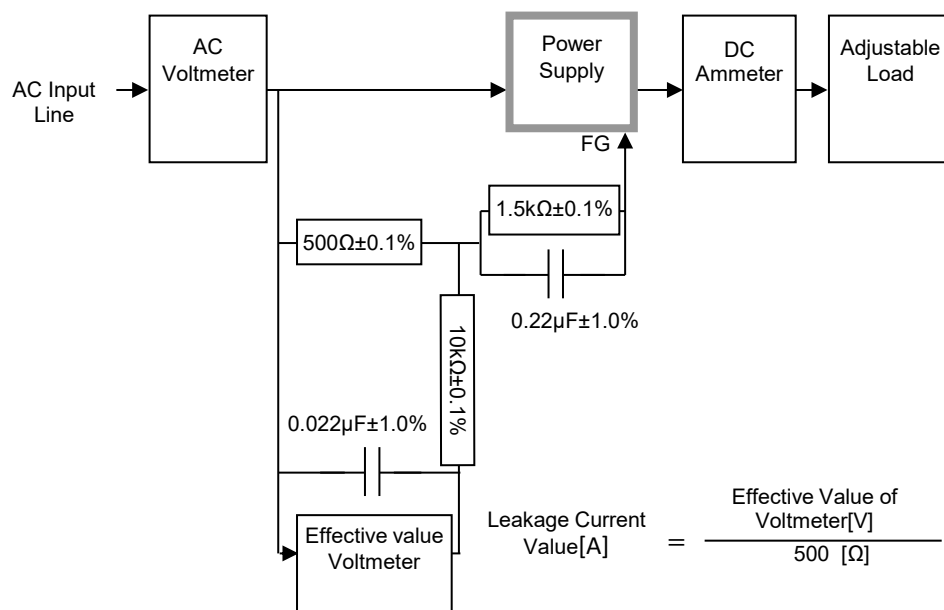


Figure C-2 (IEC62368-1 refer to IEC60990 Fig.4)

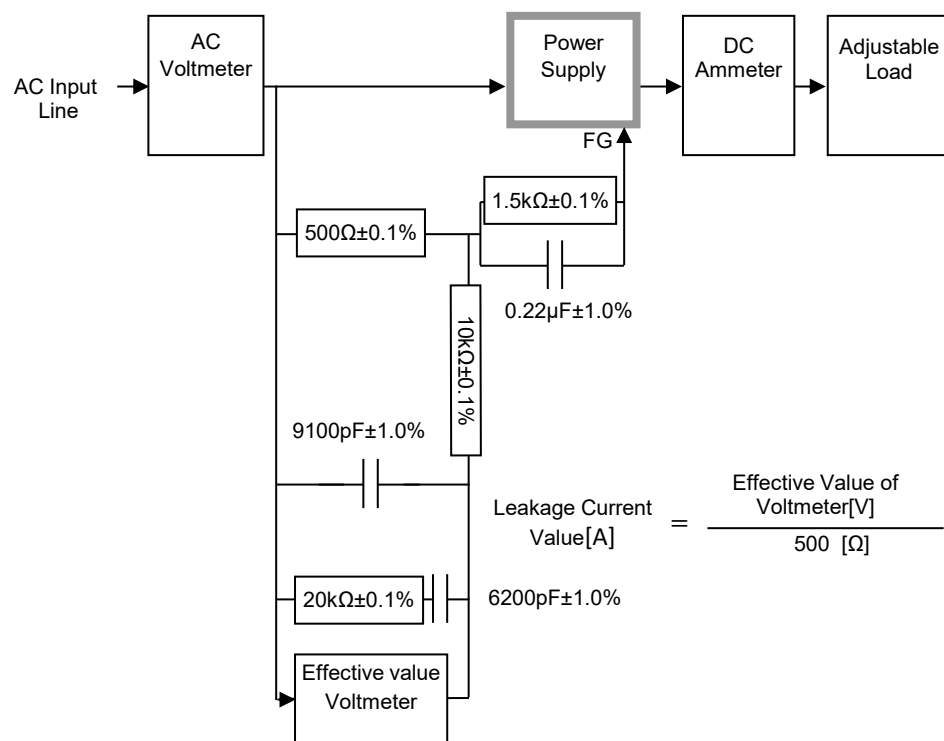


Figure C-3 (IEC62368-1 refer to IEC60990 Fig.5)