

TEST DATA OF WDA30F-5

Regulated DC Power Supply
August 17, 2022

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Design Manager

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Design Engineer

COSEL CO.,LTD.

CONTENTS

| | |
|---|----|
| 1.Input Current (by Load Current) | 1 |
| 2.Efficiency (by Load Current) | 2 |
| 3.Power Factor (by Load Current) | 3 |
| 4.Inrush Current | 4 |
| 5.Leakage Current | 5 |
| 6.Line Regulation | 6 |
| 7.Load Regulation | 7 |
| 8.Ripple-Noise | 7 |
| 9.Dynamic Load Response | 8 |
| 10.Rise and Fall Time | 9 |
| 11.Hold-Up Time | 10 |
| 12.Instantaneous Interruption Compensation | 11 |
| 13.Overcurrent Protection | 12 |
| 14.Ambient Temperature Drift | 13 |
| 15.Minimum Input Voltage for Regulated Output Voltage | 13 |
| 16.Overvoltage Protection | 13 |
| 17.Figure of Testing Circuitry | 14 |

(Final Page 15)

Model

WDA30F-5

Item

Input Current (by Load Current)

Object

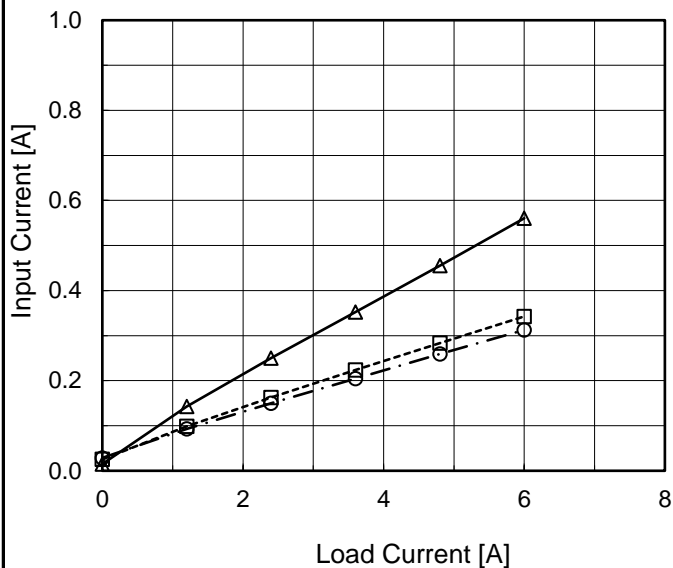
+5V6A

Temperature
Testing Circuitry

25°C
Figure A

1. Graph

—△— Input Volt. 115V
 ---□--- Input Volt. 230V
 -·-○-·- Input Volt. 264V



2. Values

| Load Current [A] | Input Current [A] | | |
|------------------|--------------------|--------------------|--------------------|
| | Input Volt. 115[V] | Input Volt. 230[V] | Input Volt. 264[V] |
| 0.0 | 0.015 | 0.025 | 0.029 |
| 1.2 | 0.143 | 0.099 | 0.093 |
| 2.4 | 0.250 | 0.163 | 0.150 |
| 3.6 | 0.352 | 0.224 | 0.205 |
| 4.8 | 0.455 | 0.284 | 0.259 |
| 6.0 | 0.561 | 0.343 | 0.313 |
| -- | - | - | - |
| -- | - | - | - |
| -- | - | - | - |
| -- | - | - | - |
| -- | - | - | - |

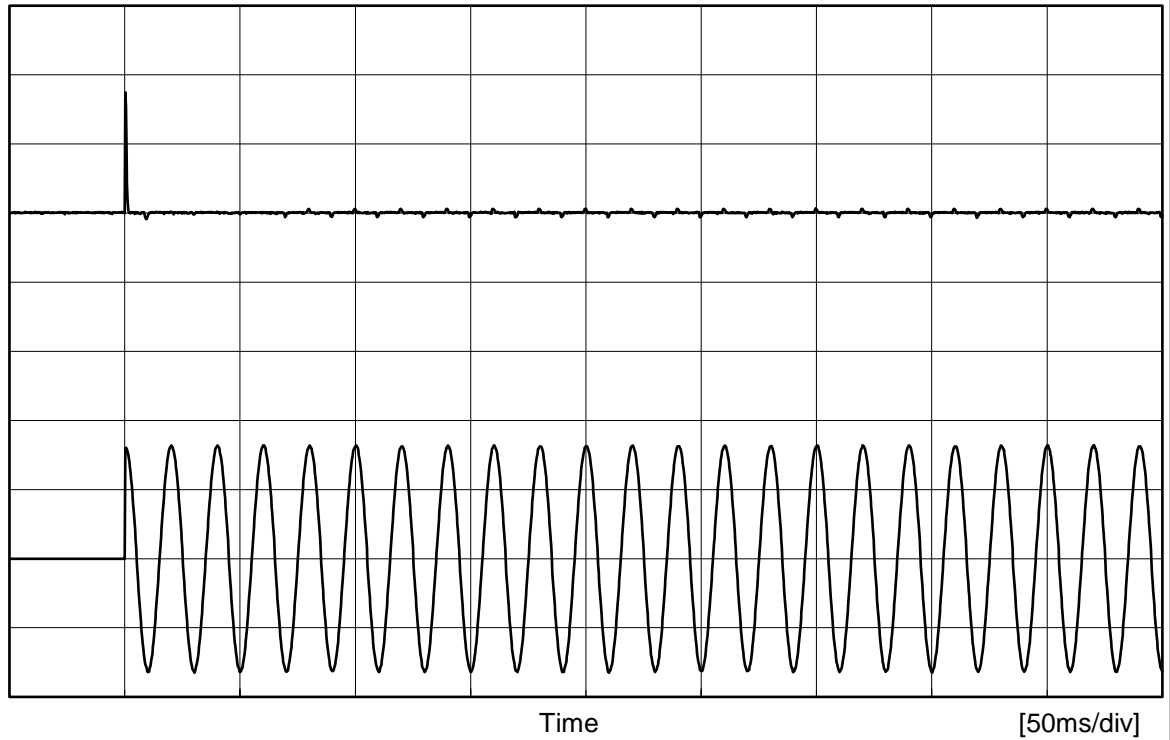
| | | | | |
|---|--|--|--|--|
| Model | | WDA30F-5 | | Temperature 25°C Testing Circuitry Figure A |
| Item | | Efficiency (by Load Current) | | |
| Object | | +5V6A | | |
| 1.Graph | | <div><div><div><div></div></div><div></div><div>Input Volt. 115V</div></div><div><div><div></div></div><div></div><div>Input Volt. 230V</div></div><div><div><div></div></div><div></div><div>Input Volt. 264V</div></div></div> | | |
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| Model | | WDA30F-5 | Temperature 25°C Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------|--------------------------------|--|--------------|--|--|--------------------|--------------------|--------------------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|--|--|
| Item | | Power Factor (by Load Current) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | +5V6A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>Input Volt. 115V</div><div>Input Volt. 230V</div><div>Input Volt. 264V</div></div></div><table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Power Factor</th></tr><tr><th>Input Volt. 115[V]</th><th>Input Volt. 230[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>0.0</td><td>0.153</td><td>0.085</td><td>0.078</td></tr><tr><td>1.2</td><td>0.450</td><td>0.358</td><td>0.346</td></tr><tr><td>2.4</td><td>0.509</td><td>0.404</td><td>0.391</td></tr><tr><td>3.6</td><td>0.545</td><td>0.433</td><td>0.418</td></tr><tr><td>4.8</td><td>0.569</td><td>0.453</td><td>0.436</td></tr><tr><td>6.0</td><td>0.587</td><td>0.468</td><td>0.450</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><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table></div> | | | Load Current [A] | Power Factor | | | Input Volt. 115[V] | Input Volt. 230[V] | Input Volt. 264[V] | 0.0 | 0.153 | 0.085 | 0.078 | 1.2 | 0.450 | 0.358 | 0.346 | 2.4 | 0.509 | 0.404 | 0.391 | 3.6 | 0.545 | 0.433 | 0.418 | 4.8 | 0.569 | 0.453 | 0.436 | 6.0 | 0.587 | 0.468 | 0.450 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - | | |
| Load Current [A] | Power Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 115[V] | Input Volt. 230[V] | Input Volt. 264[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 0.153 | 0.085 | 0.078 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | 0.450 | 0.358 | 0.346 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4 | 0.509 | 0.404 | 0.391 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.6 | 0.545 | 0.433 | 0.418 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.8 | 0.569 | 0.453 | 0.436 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.0 | 0.587 | 0.468 | 0.450 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | |
|--------|----------------|--|
| Model | WDA30F-5 | Temperature 25°C Testing Circuitry Figure A |
| Item | Inrush Current | |
| Object | +5V6A | |

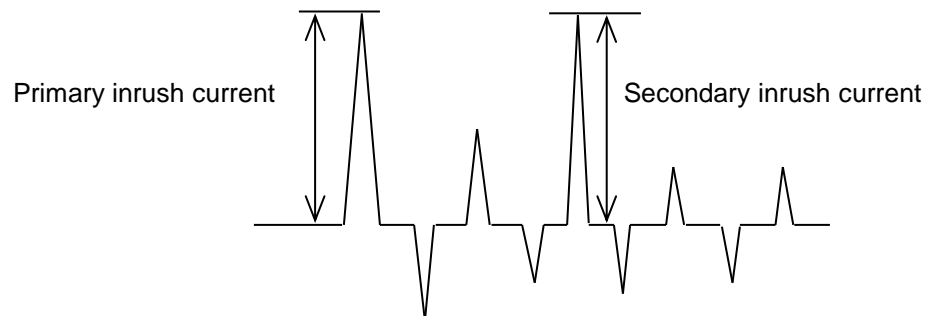
Input
Current
[20A/div]

Input
Voltage
[200V/div]



Input Voltage 230 V
Frequency 50 Hz
Load 100 %

Primary inrush current 34.7 A
Secondary inrush current 0.0 A



| | | | |
|--------|--|-----------------|--|
| Model | | WDA30F-5 | Temperature 25°C Testing Circuitry Figure C |
| Item | | Leakage Current | |
| Object | | +5V6A | |

1.Results

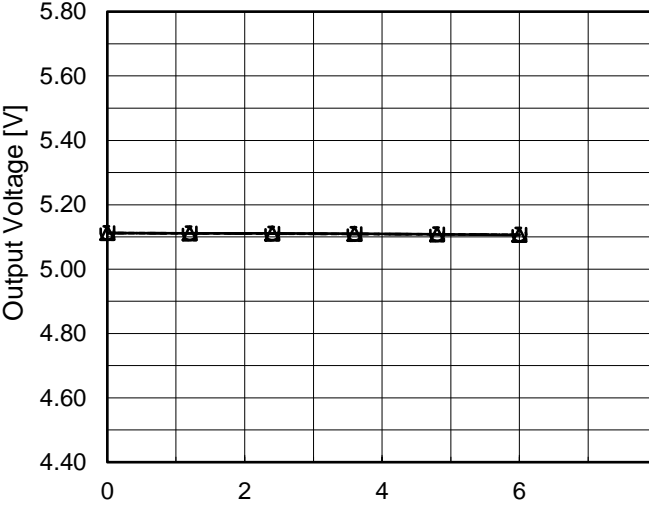
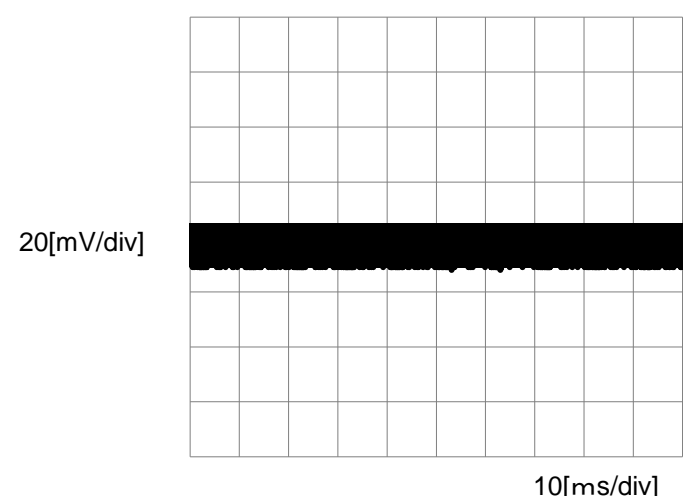
| Standards | Testing Circuitry | Measuring Method | Input Volt. | | | Note |
|------------|-------------------|------------------|-------------|---------|---------|-----------|
| | | | 115 [V] | 240 [V] | 264 [V] | |
| DEN-AN | Figure C-1 | Both phases | 0.14 | 0.33 | 0.37 | Operation |
| | | One of phases | 0.27 | 0.62 | 0.69 | Stand by |
| IEC62368-1 | Figure C-2 | Both phases | 0.14 | 0.32 | 0.35 | Operation |
| | | One of phases | 0.27 | 0.60 | 0.67 | Stand by |
| | Figure C-3 | Both phases | 0.14 | 0.35 | 0.35 | Operation |
| | | One of phases | 0.26 | 0.67 | 0.66 | 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 | | WDA30F-5 | Temperature Testing Circuitry | 25°C Figure A |
| Item | | Line Regulation | | |
| Object | | +5V6A | | |
| 1.Graph | | | 2.Values | |
| <div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></d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| | | | |

| Model | WDA30F-5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------|--|--------------------|------------------|--------------------|--|--|--------------------|--------------------|--------------------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Item | Load Regulation | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +5V6A | Testing Circuitry | Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div>—△—</div><div>Input Volt.</div><div>115V</div></div><div><div>---□---</div><div>Input Volt.</div><div>230V</div></div><div><div>---○---</div><div>Input Volt.</div><div>264V</div></div></div>  | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 115[V]</th><th>Input Volt. 230[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>0.0</td><td>5.112</td><td>5.112</td><td>5.112</td></tr><tr><td>1.2</td><td>5.111</td><td>5.111</td><td>5.111</td></tr><tr><td>2.4</td><td>5.111</td><td>5.111</td><td>5.111</td></tr><tr><td>3.6</td><td>5.110</td><td>5.109</td><td>5.109</td></tr><tr><td>4.8</td><td>5.108</td><td>5.108</td><td>5.108</td></tr><tr><td>6.0</td><td>5.106</td><td>5.107</td><td>5.107</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><tr><td>--</td><td>--</td><td>--</td><td>--</td></tr></table> | | Load Current [A] | Output Voltage [V] | | | Input Volt. 115[V] | Input Volt. 230[V] | Input Volt. 264[V] | 0.0 | 5.112 | 5.112 | 5.112 | 1.2 | 5.111 | 5.111 | 5.111 | 2.4 | 5.111 | 5.111 | 5.111 | 3.6 | 5.110 | 5.109 | 5.109 | 4.8 | 5.108 | 5.108 | 5.108 | 6.0 | 5.106 | 5.107 | 5.107 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Load Current [A] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 115[V] | Input Volt. 230[V] | Input Volt. 264[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 5.112 | 5.112 | 5.112 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | 5.111 | 5.111 | 5.111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4 | 5.111 | 5.111 | 5.111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.6 | 5.110 | 5.109 | 5.109 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.8 | 5.108 | 5.108 | 5.108 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.0 | 5.106 | 5.107 | 5.107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Item | Ripple-Noise | Temperature | 25°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | +5V6A | Testing Circuitry | Figure B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div>Input Voltage</div><div>230V</div></div><div><div>Load</div><div>100%</div></div></div>  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

- 7 -

BC-11896

| | | | |
|--------|-----------------------|-------------------|----------|
| Model | WDA30F-5 | Temperature | 25°C |
| Item | Dynamic Load Response | Testing Circuitry | Figure A |
| Object | +5V6A | | |

Input Volt. 230 V
Cycle 1000 ms

$t_1, t_2 = 50 \mu s$

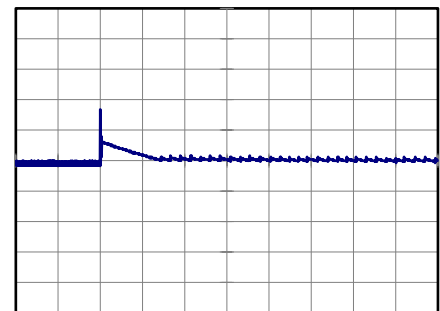
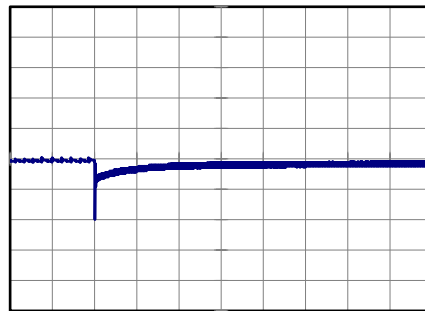
Load Current



Min.Load (0A) \longleftrightarrow
Load 100% (6A)

100 mV/div

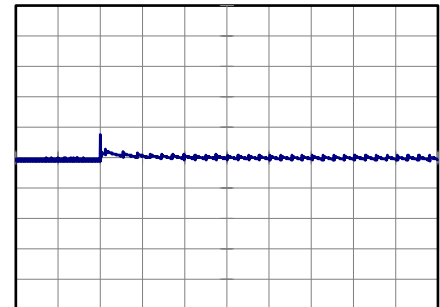
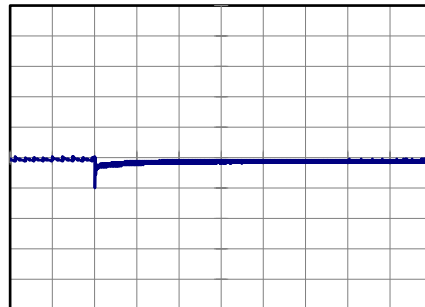
20 ms/div



Min.Load (0A) \longleftrightarrow
Load 50% (3A)

100 mV/div

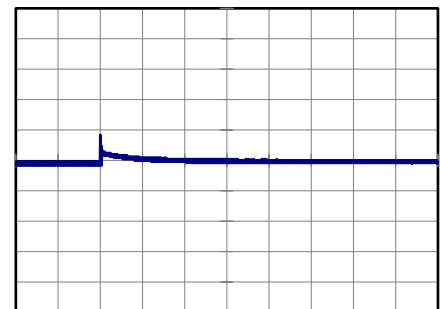
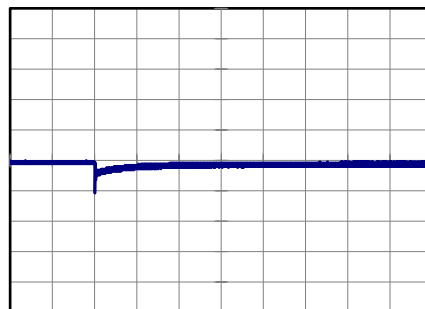
20 ms/div



Load 50% (3A) \longleftrightarrow
Load 100% (6A)

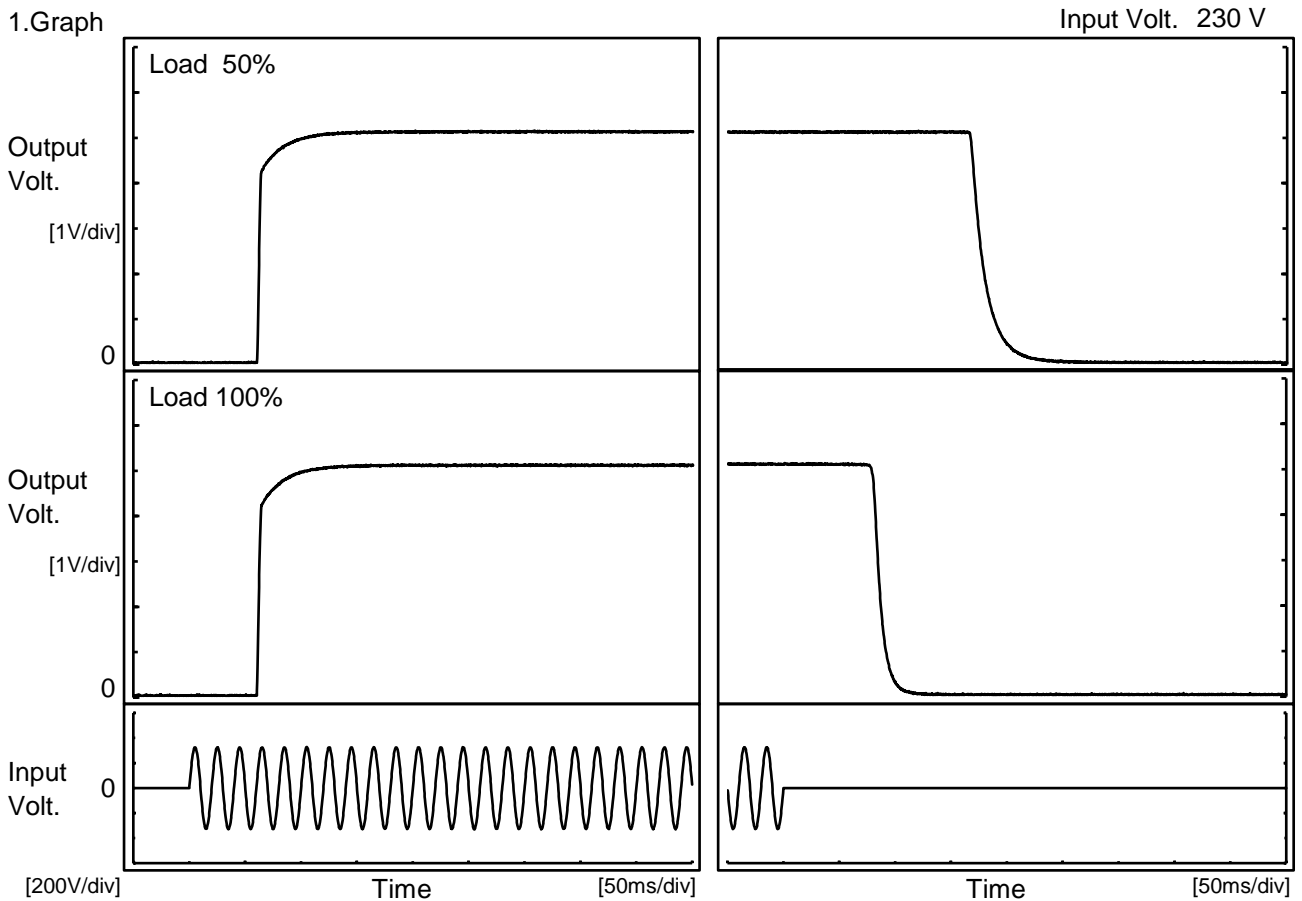
100 mV/div

20 ms/div



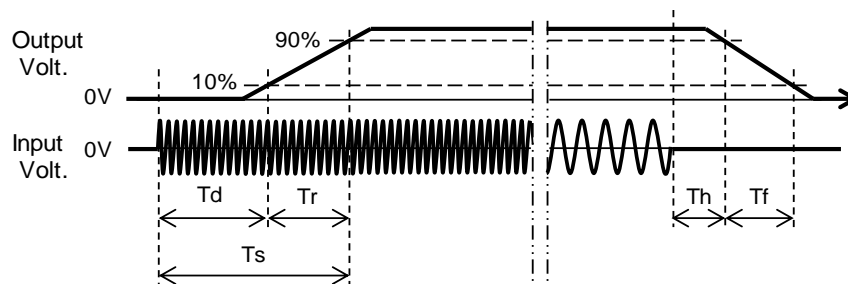
| | | | |
|--------|--------------------|-------------------|----------|
| Model | WDA30F-5 | Temperature | 25°C |
| Item | Rise and Fall Time | Testing Circuitry | Figure A |
| Object | +5V6A | | |

1.Graph



2.Values

| Load \ Time | Td | Tr | Ts | Th | [ms] |
|-------------|------|------|------|-------|------|
| 50 % | 61.3 | 11.0 | 72.3 | 169.0 | 28.3 |
| 100 % | 61.0 | 12.0 | 73.0 | 81.0 | 14.8 |



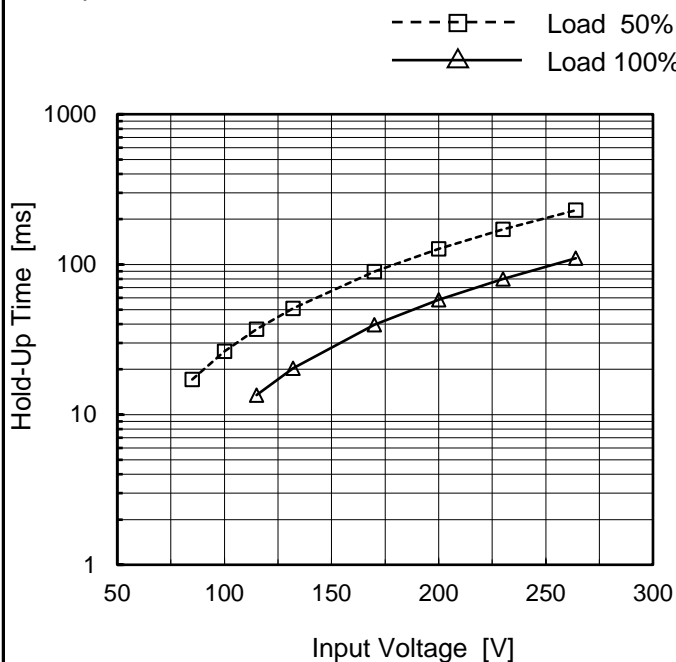
Model WDA30F-5

Item Hold-Up Time

Object +5V6A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



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

2. Values

| Input Voltage [V] | Hold-Up Time [ms] | |
|-------------------|-------------------|-----------|
| | Load 50% | Load 100% |
| 85 | 17 | - |
| 100 | 26 | - |
| 115 | 37 | 13 |
| 132 | 51 | 20 |
| 170 | 90 | 40 |
| 200 | 127 | 58 |
| 230 | 172 | 80 |
| 264 | 230 | 110 |
| -- | - | - |

| Model | | WDA30F-5 | Temperature 25°C Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|--------------------|--|--|--|------------------|-----------|--|--|--------------------|--------------------|--------------------|-----|---|---|---|-----|-----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|----|----|-----|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|
| Item | | Instantaneous Interruption Compensation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | +5V6A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | <div><div><div>—△—</div>Input Volt. 115V</div><div><div>---□---</div>Input Volt. 230V</div><div><div>-·-○-·-</div>Input Volt. 264V</div></div> <p>Instantaneous Compensation Time [ms]</p> <p>Load Current [A]</p> | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | <table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [ms]</th></tr><tr><th>Input Volt. 115[V]</th><th>Input Volt. 230[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>1.2</td><td>103</td><td>425</td><td>561</td></tr><tr><td>2.4</td><td>49</td><td>216</td><td>287</td></tr><tr><td>3.6</td><td>31</td><td>144</td><td>191</td></tr><tr><td>4.8</td><td>22</td><td>106</td><td>143</td></tr><tr><td>6.0</td><td>15</td><td>82</td><td>111</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] | Time [ms] | | | Input Volt. 115[V] | Input Volt. 230[V] | Input Volt. 264[V] | 0.0 | - | - | - | 1.2 | 103 | 425 | 561 | 2.4 | 49 | 216 | 287 | 3.6 | 31 | 144 | 191 | 4.8 | 22 | 106 | 143 | 6.0 | 15 | 82 | 111 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Load Current [A] | Time [ms] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 115[V] | Input Volt. 230[V] | Input Volt. 264[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | 103 | 425 | 561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4 | 49 | 216 | 287 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.6 | 31 | 144 | 191 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.8 | 22 | 106 | 143 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.0 | 15 | 82 | 111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Model | | WDA30F-5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------|--|--------------------|--------------------|------------------|--|--|--------------------|--------------------|--------------------|---|------|------|------|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|----|---|---|---|
| Item | | Overcurrent Protection | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Object | | +5V6A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Graph | | 2.Values | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div><div></div><div>Input Volt. 115V</div></div><div><div></div><div>Input Volt. 230V</div></div><div><div></div><div>Input Volt. 264V</div></div></div> <p>Note: Slanted line shows the range of the rated load current.</p> <p>Hiccup mode activates when the output voltage is from 1.0 to 0V.</p> | | <table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="3">Load Current [A]</th></tr><tr><th>Input Volt. 115[V]</th><th>Input Volt. 230[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>5</td><td>7.90</td><td>8.89</td><td>9.21</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><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><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table> | | Output Voltage [V] | Load Current [A] | | | Input Volt. 115[V] | Input Volt. 230[V] | Input Volt. 264[V] | 5 | 7.90 | 8.89 | 9.21 | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - | -- | - | - | - |
| Output Voltage [V] | Load Current [A] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 115[V] | Input Volt. 230[V] | Input Volt. 264[V] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 7.90 | 8.89 | 9.21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | Testing Circuitry Figure A | | | | | | | | | | | | | | | | | | | |
|--|--|-------------------------------|-------------------------|--------------------|--|--|------------------|------------------|------------------|-----|-------|-------|-------|----|-------|-------|-------|----|-------|-------|-------|
| Model | WDA30F-5 | | | | | | | | | | | | | | | | | | | | |
| Item | Ambient Temperature Drift | | | | | | | | | | | | | | | | | | | | |
| Object | +5V6A | | | | | | | | | | | | | | | | | | | | |
| 1.Values <div>Load 100%</div> <table><tr><th rowspan="2">Ambient Temperature[°C]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 115V</th><th>Input Volt. 230V</th><th>Input Volt. 264V</th></tr><tr><td>-20</td><td>5.082</td><td>5.088</td><td>5.089</td></tr><tr><td>25</td><td>5.100</td><td>5.101</td><td>5.101</td></tr><tr><td>50</td><td>5.105</td><td>5.106</td><td>5.105</td></tr></table> | | | Ambient Temperature[°C] | Output Voltage [V] | | | Input Volt. 115V | Input Volt. 230V | Input Volt. 264V | -20 | 5.082 | 5.088 | 5.089 | 25 | 5.100 | 5.101 | 5.101 | 50 | 5.105 | 5.106 | 5.105 |
| Ambient Temperature[°C] | Output Voltage [V] | | | | | | | | | | | | | | | | | | | | |
| | Input Volt. 115V | Input Volt. 230V | Input Volt. 264V | | | | | | | | | | | | | | | | | | |
| -20 | 5.082 | 5.088 | 5.089 | | | | | | | | | | | | | | | | | | |
| 25 | 5.100 | 5.101 | 5.101 | | | | | | | | | | | | | | | | | | |
| 50 | 5.105 | 5.106 | 5.105 | | | | | | | | | | | | | | | | | | |
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| -20 | 5.082 | 5.088 | 5.089 | | | | | | | | | | | | | | | | | | |
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| 25 | 5.100 | 5.101 | 5.101 | | | | | | | | | | | | | | | | | | |
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| -20 | 5.082 | 5.088 | 5.089 | | | | | | | | | | | | | | | | | | |
| 25 | 5.100 | 5.101 | 5.101 | | | | | | | | | | | | | | | | | | |
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| 25 | 5.100 | 5.101 | 5.101 | | | | | | | | | | | | | | | | | | |
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| -20 | 5.082 | 5.088 | 5.089 | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | |

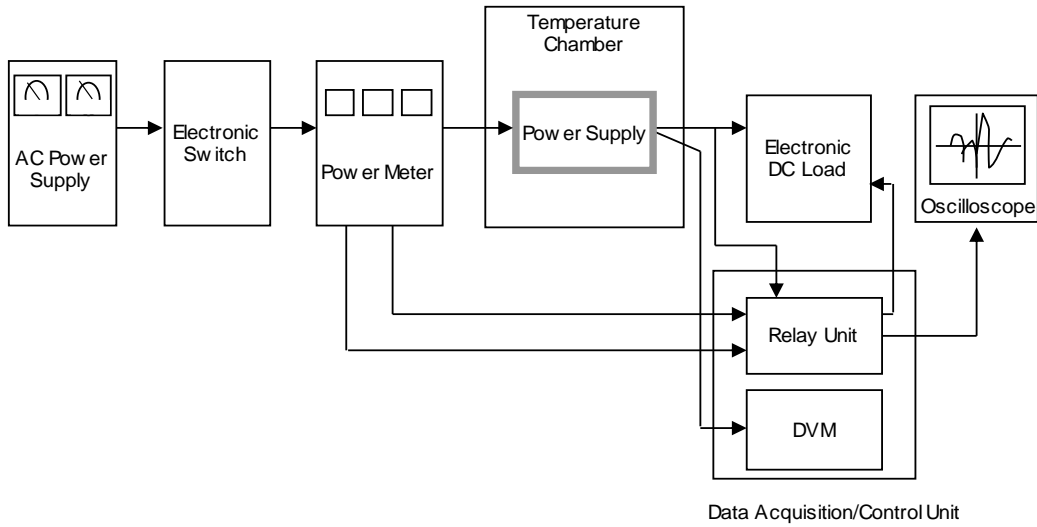


Figure A

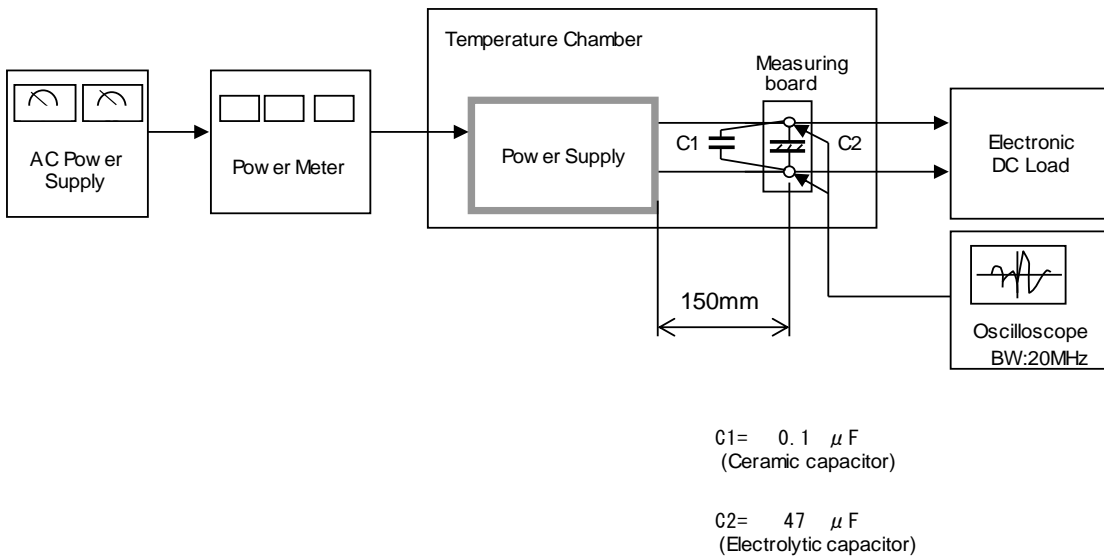


Figure B

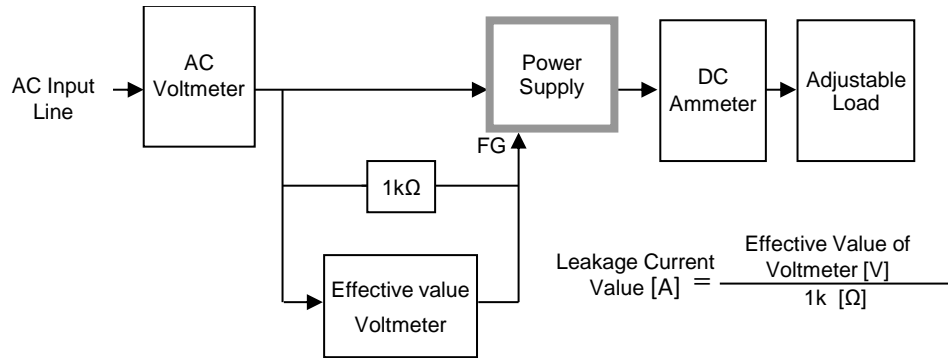


Figure C-1 (DEN-AN)

