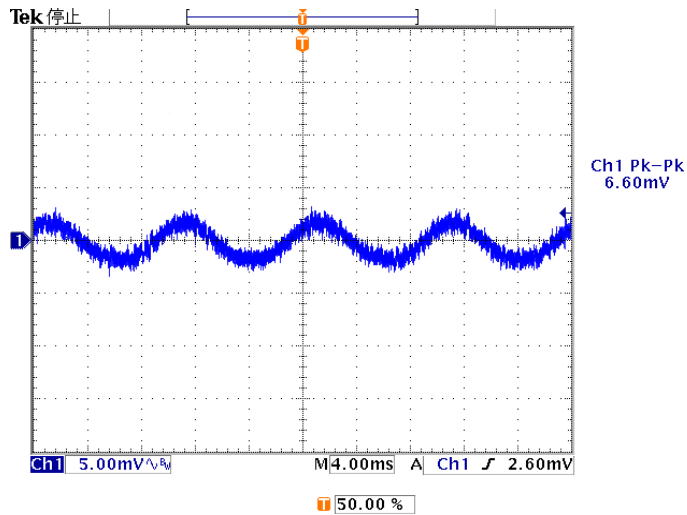


Output Ripple and Noise Waveform

Ta : 25°C



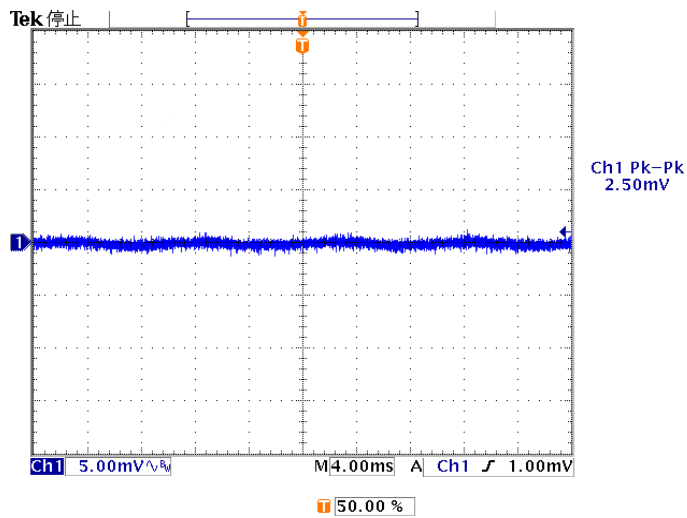
Input Voltage : 100 VAC  
Output Current : 100 %

Vout : 5 mVAC/DIV

TIME : 4 ms/DIV

BW : 150 MHz

Vp-p : 6.6 mV



Input Voltage : 100 VAC  
Output Current : 0 %

Vout : 5 mVAC/DIV

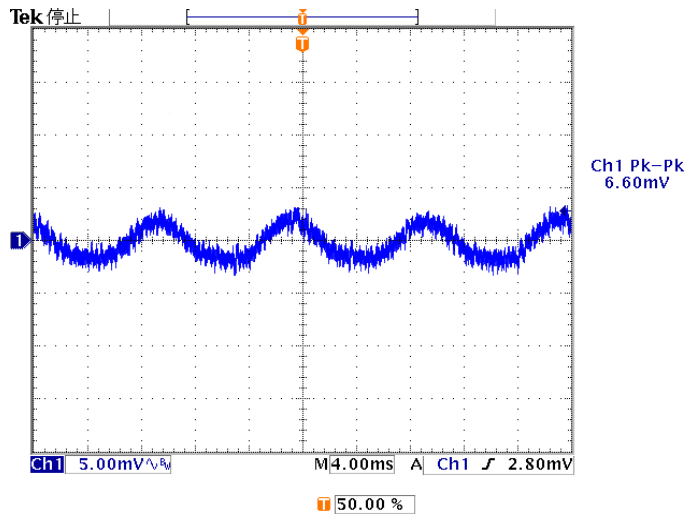
TIME : 4 ms/DIV

BW : 150 MHz

Vp-p : 2.5 mV

Output Ripple and Noise Waveform

Ta : 25°C



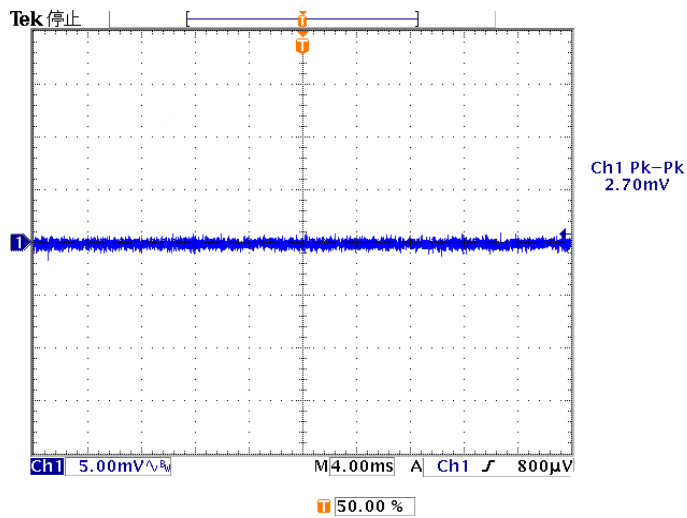
Input Voltage : 200 VAC  
Output Current : 100 %

Vout : 5 mVAC/DIV

TIME : 4 ms/DIV

BW : 150 MHz

Vp-p : 6.6 mV



Input Voltage : 200 VAC  
Output Current : 0 %

Vout : 5 mVAC/DIV

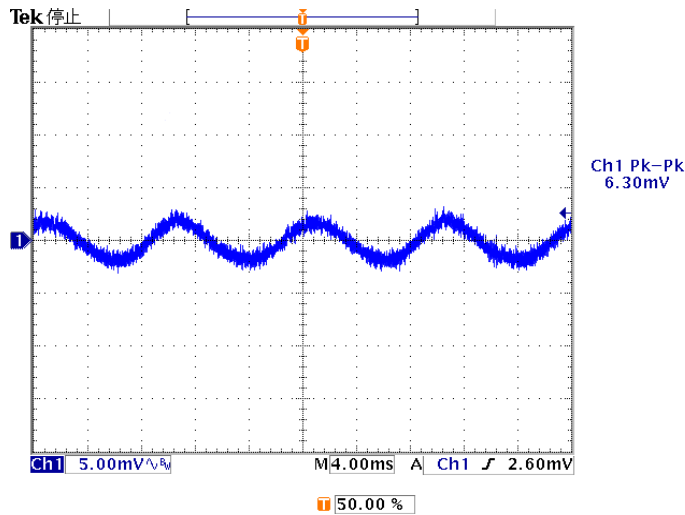
TIME : 4 ms/DIV

BW : 150 MHz

Vp-p : 2.7 mV

Output Ripple and Noise Waveform

Ta : 25°C



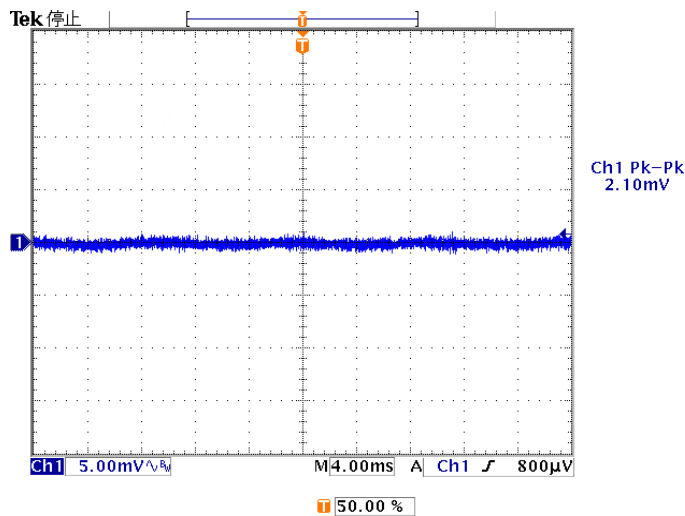
Input Voltage : 100 VAC  
Output Current : 100 %

Vout : 5 mVAC/DIV

TIME : 4 ms/DIV

BW : 150 MHz

Vp-p : 6.3 mV



Input Voltage : 100 VAC  
Output Current : 0 %

Vout : 5 mVAC/DIV

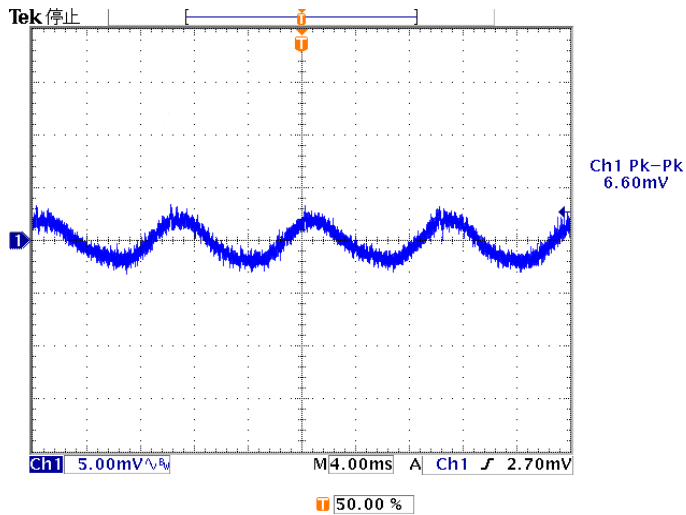
TIME : 4 ms/DIV

BW : 150 MHz

Vp-p : 2.1 mV

Output Ripple and Noise Waveform

Ta : 25°C



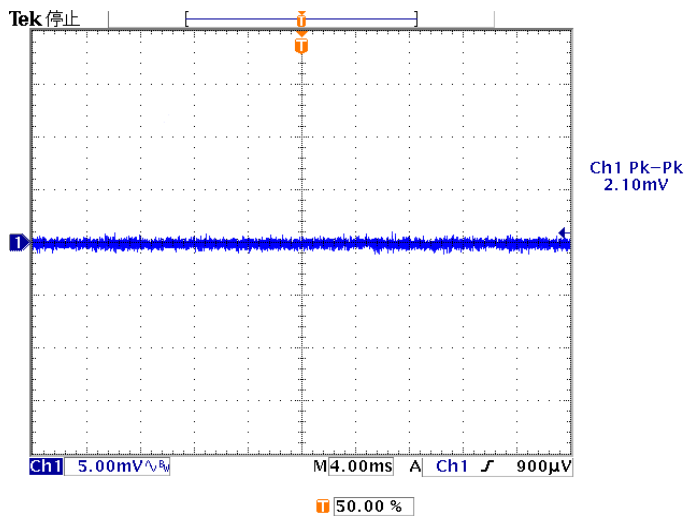
Input Voltage : 200 VAC  
Output Current : 100 %

Vout : 5 mVAC/DIV

TIME : 4 ms/DIV

BW : 150 MHz

Vp-p : 6.6 mV



Input Voltage : 200 VAC  
Output Current : 0 %

Vout : 5 mVAC/DIV

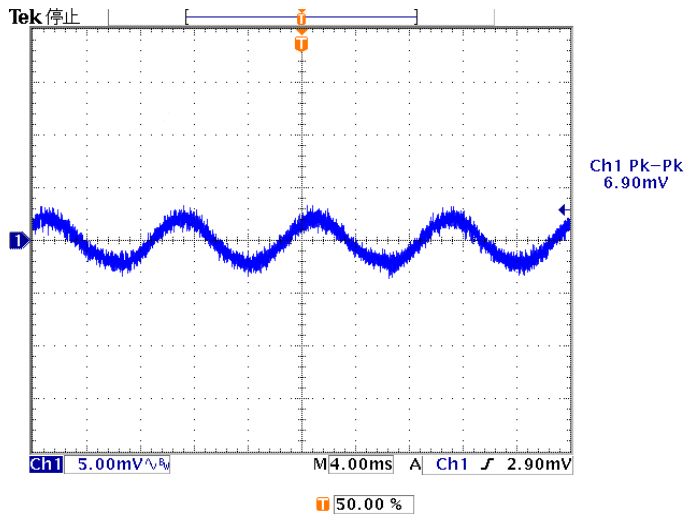
TIME : 4 ms/DIV

BW : 150 MHz

Vp-p : 2.1 mV

Output Ripple and Noise Waveform

Ta : 25°C



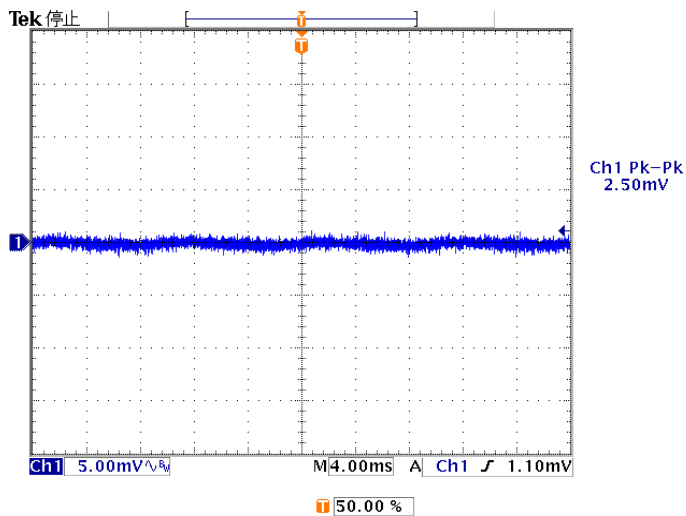
Input Voltage : 100 VAC  
Output Current : 100 %

Vout : 5 mVAC/DIV

TIME : 4 ms/DIV

BW : 150 MHz

Vp-p : 6.9 mV



Input Voltage : 100 VAC  
Output Current : 0 %

Vout : 5 mVAC/DIV

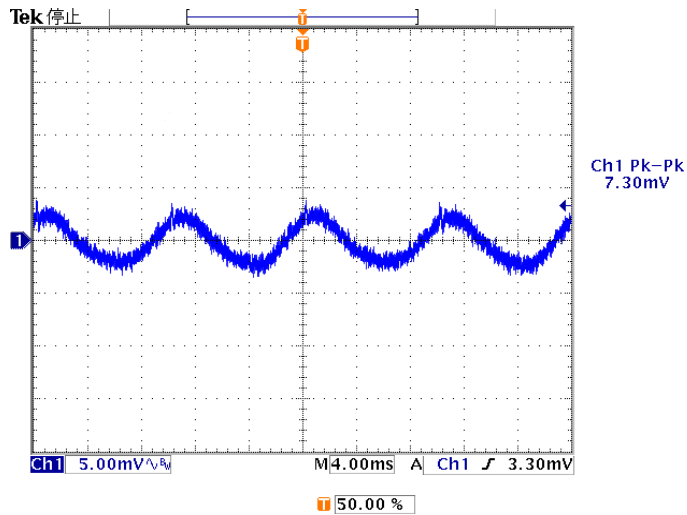
TIME : 4 ms/DIV

BW : 150 MHz

Vp-p : 2.5 mV

Output Ripple and Noise Waveform

Ta : 25°C



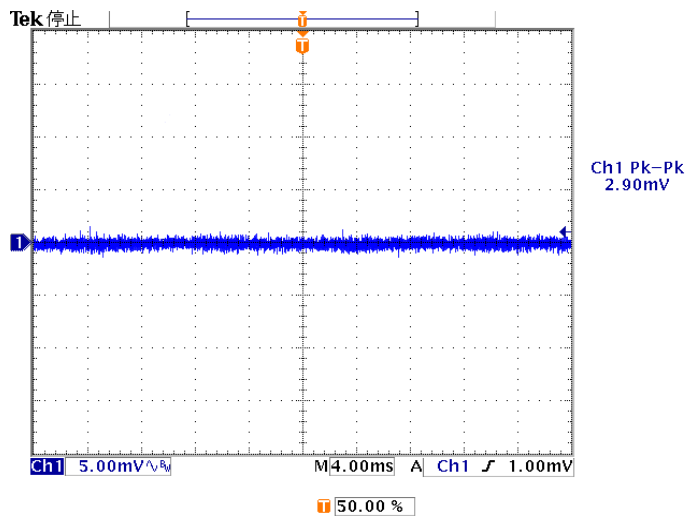
Input Voltage : 200 VAC  
Output Current : 100 %

Vout : 5 mVAC/DIV

TIME : 4 ms/DIV

BW : 150 MHz

Vp-p : 7.3 mV



Input Voltage : 200 VAC  
Output Current : 0 %

Vout : 5 mVAC/DIV

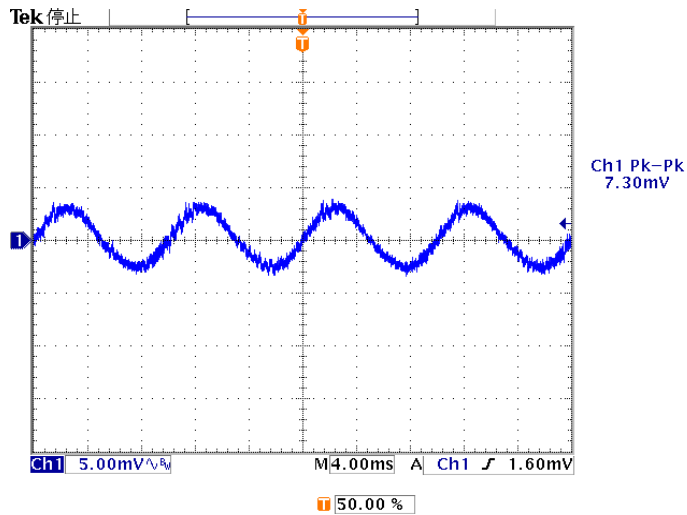
TIME : 4 ms/DIV

BW : 150 MHz

Vp-p : 2.9 mV

Output Ripple and Noise Waveform

Ta : 25°C



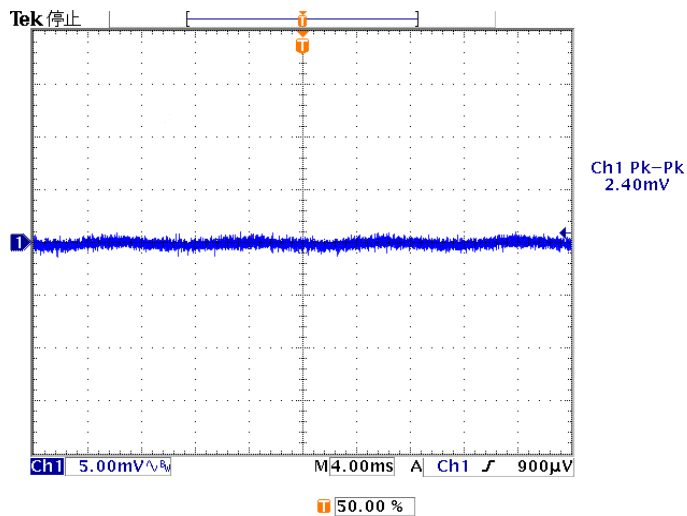
Input Voltage : 100 VAC  
Output Current : 100 %

Vout : 5 mVAC/DIV

TIME : 4 ms/DIV

BW : 150 MHz

Vp-p : 7.3 mV



Input Voltage : 100 VAC  
Output Current : 0 %

Vout : 5 mVAC/DIV

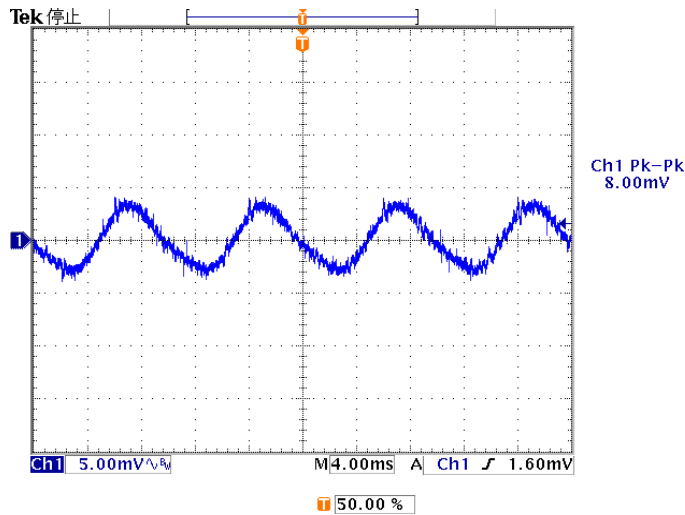
TIME : 4 ms/DIV

BW : 150 MHz

Vp-p : 2.4 mV

Output Ripple and Noise Waveform

Ta : 25°C



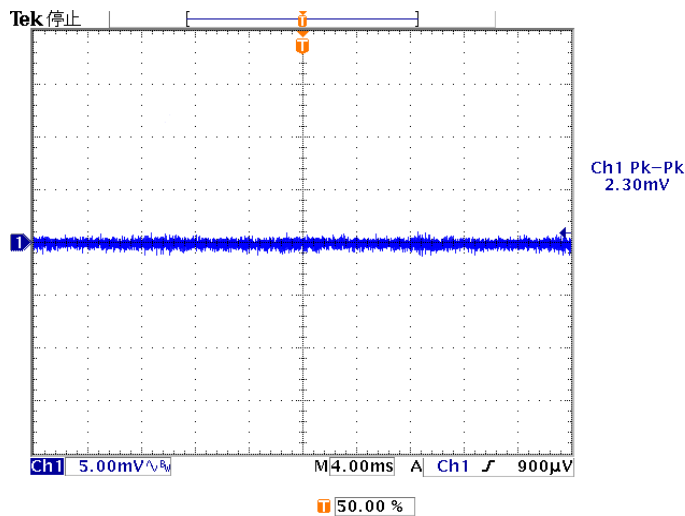
Input Voltage : 200 VAC  
Output Current : 100 %

Vout : 5 mVAC/DIV

TIME : 4 ms/DIV

BW : 150 MHz

Vp-p : 8.0 mV



Input Voltage : 200 VAC  
Output Current : 0 %

Vout : 5 mVAC/DIV

TIME : 4 ms/DIV

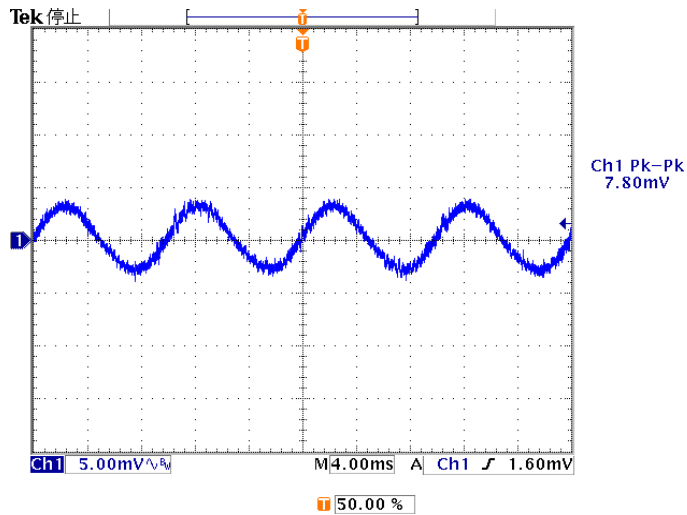
BW : 150 MHz

Vp-p : 2.3 mV



Output Ripple and Noise Waveform

Ta : 25°C



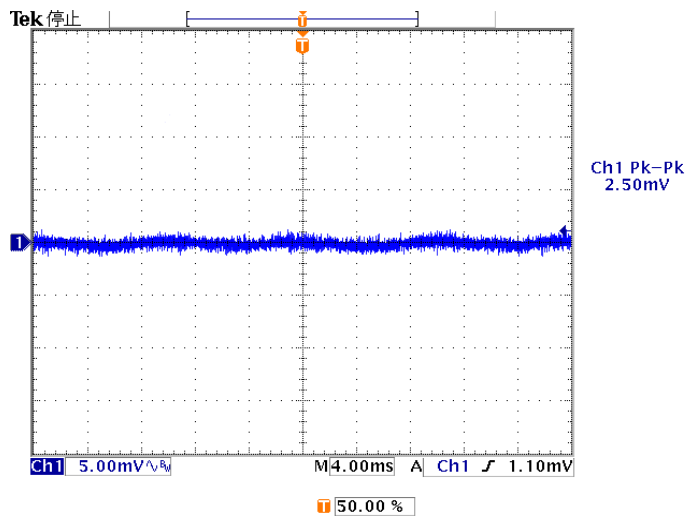
Input Voltage : 100 VAC  
Output Current : 100 %

Vout : 5 mVAC/DIV

TIME : 4 ms/DIV

BW : 150 MHz

Vp-p : 7.8 mV



Input Voltage : 100 VAC  
Output Current : 0 %

Vout : 5 mVAC/DIV

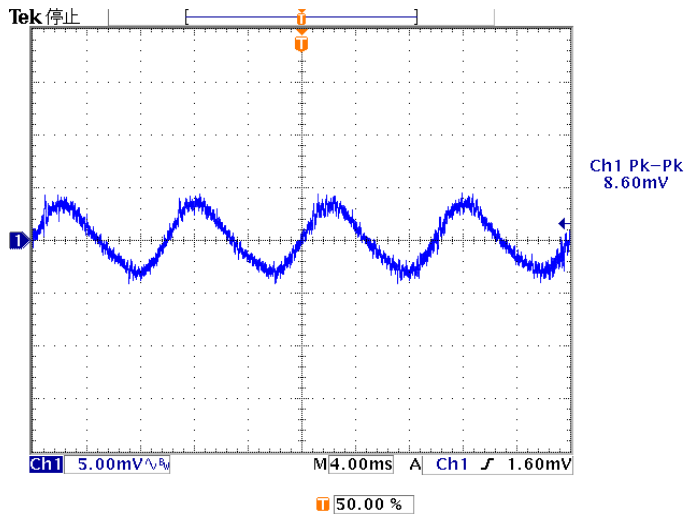
TIME : 4 ms/DIV

BW : 150 MHz

Vp-p : 2.5 mV

Output Ripple and Noise Waveform

Ta : 25°C



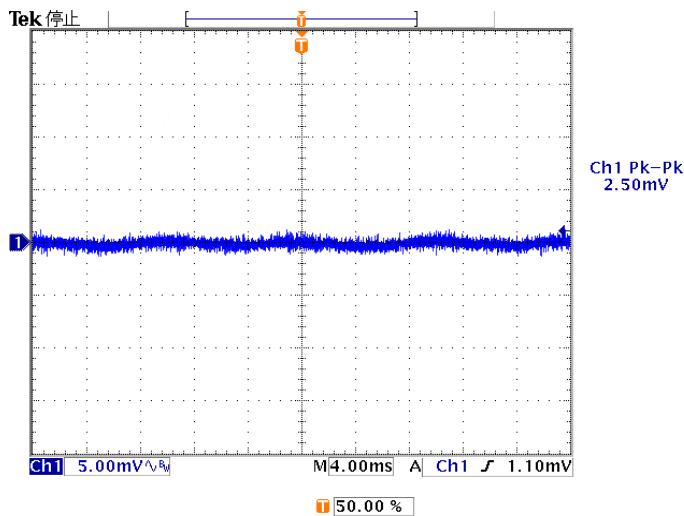
Input Voltage : 200 VAC  
Output Current : 100 %

Vout : 5 mVAC/DIV

TIME : 4 ms/DIV

BW : 150 MHz

Vp-p : 8.6 mV



Input Voltage : 200 VAC  
Output Current : 0 %

Vout : 5 mVAC/DIV

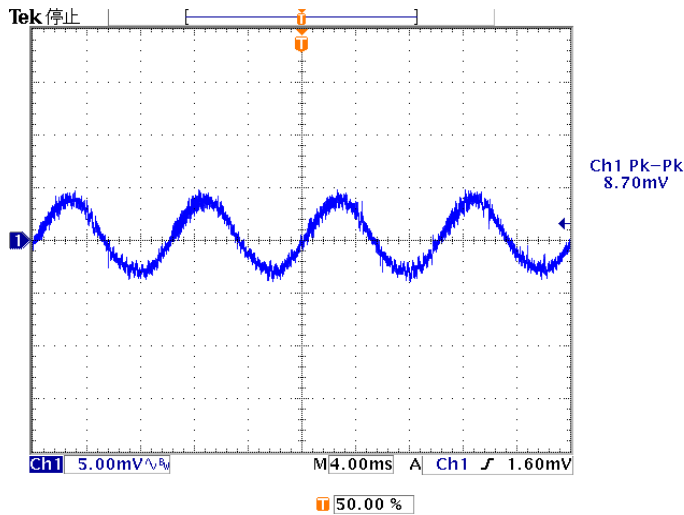
TIME : 4 ms/DIV

BW : 150 MHz

Vp-p : 2.5 mV

Output Ripple and Noise Waveform

Ta : 25°C



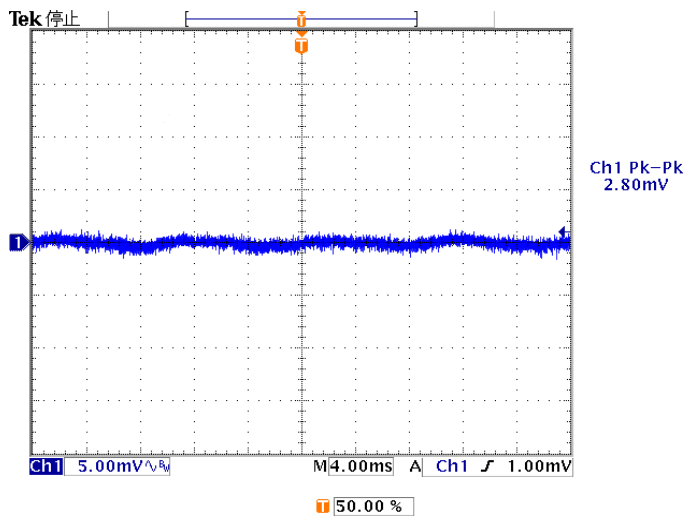
Input Voltage : 100 VAC  
Output Current : 100 %

Vout : 5 mVAC/DIV

TIME : 4 ms/DIV

BW : 150 MHz

Vp-p : 8.7 mV



Input Voltage : 100 VAC  
Output Current : 0 %

Vout : 5 mVAC/DIV

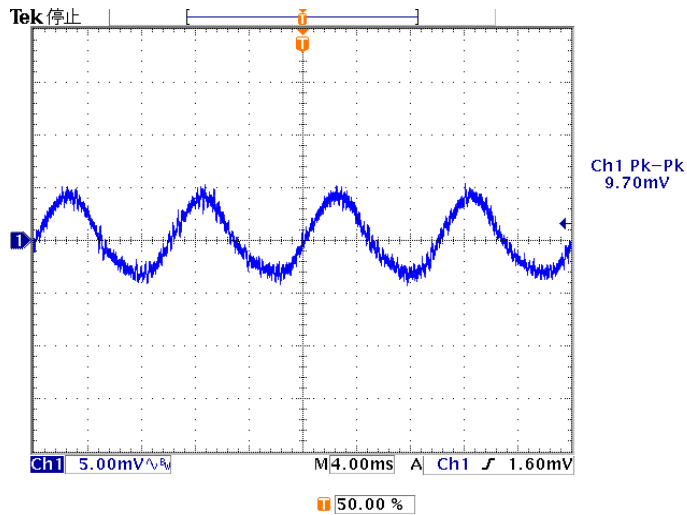
TIME : 4 ms/DIV

BW : 150 MHz

Vp-p : 2.8 mV

Output Ripple and Noise Waveform

Ta : 25°C



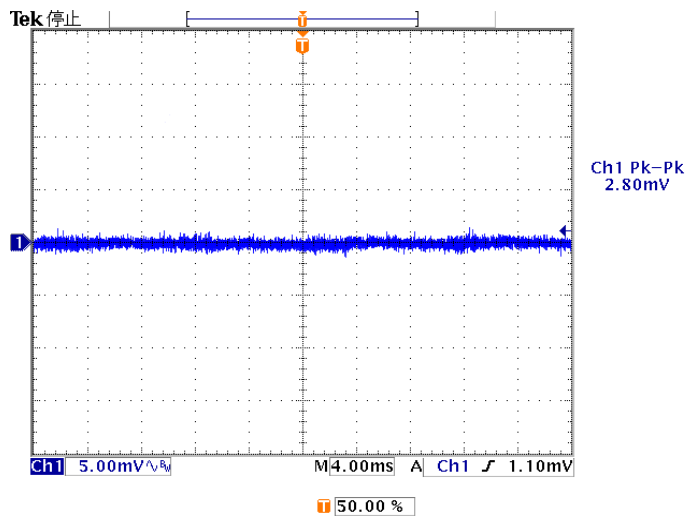
Input Voltage : 200 VAC  
Output Current : 100 %

Vout : 5 mVAC/DIV

TIME : 4 ms/DIV

BW : 150 MHz

Vp-p : 9.7 mV



Input Voltage : 200 VAC  
Output Current : 0 %

Vout : 5 mVAC/DIV

TIME : 4 ms/DIV

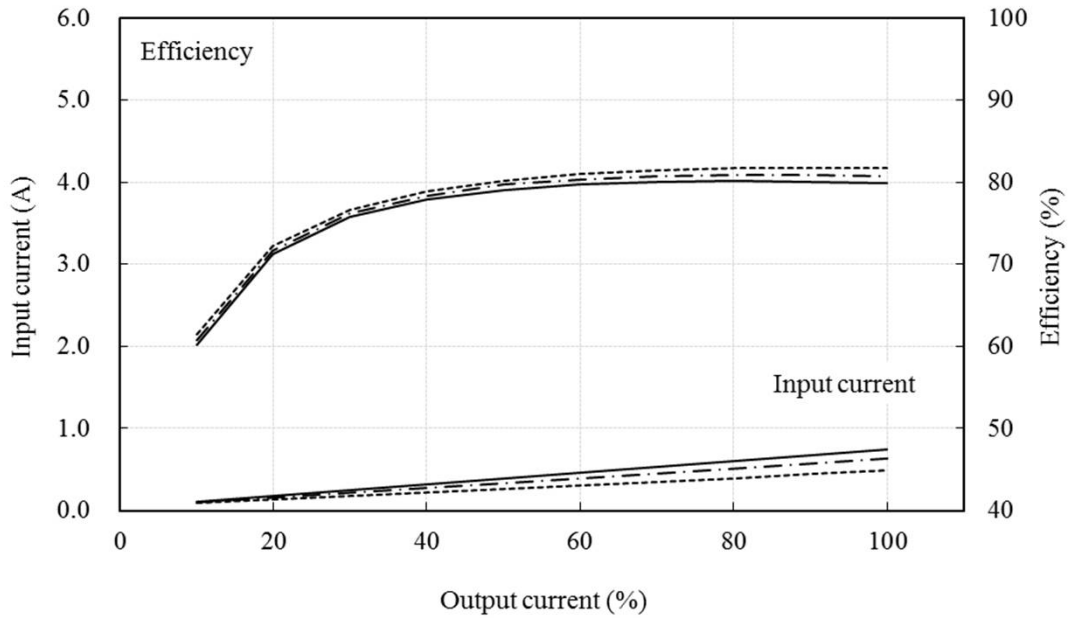
BW : 150 MHz

Vp-p : 2.8 mV

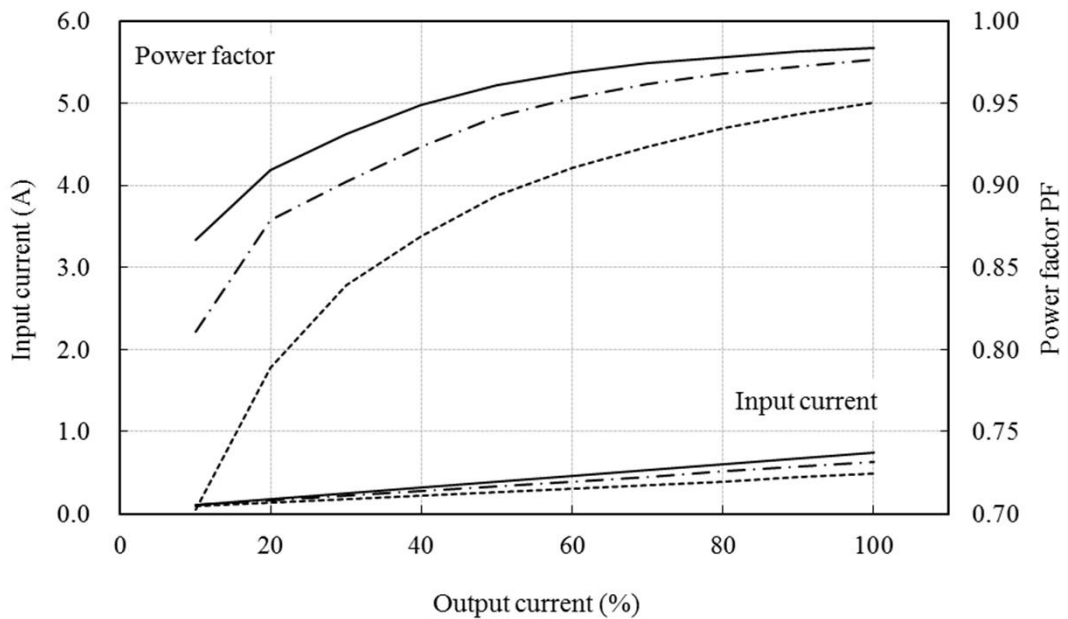
$\eta$  and PF , input current v.s. output current

25°C

conditions  $V_{in}$  : 85VAC ———  
 : 100VAC - · - · - ·  
 : 132VAC - - - - -



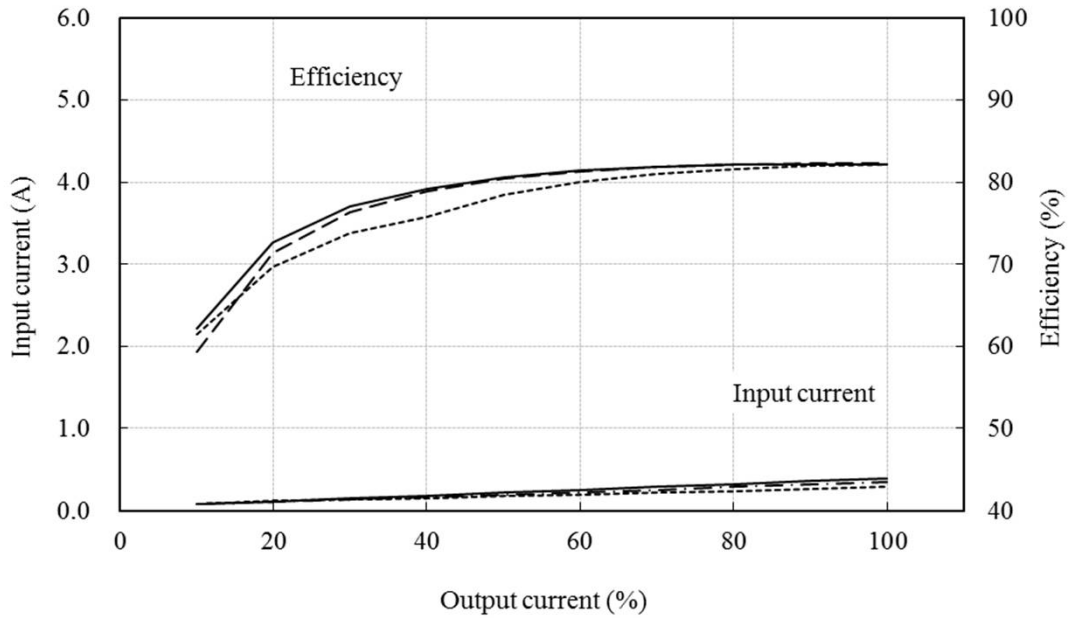
conditions  $V_{in}$  : 85VAC ———  
 : 100VAC - · - · - ·  
 : 132VAC - - - - -



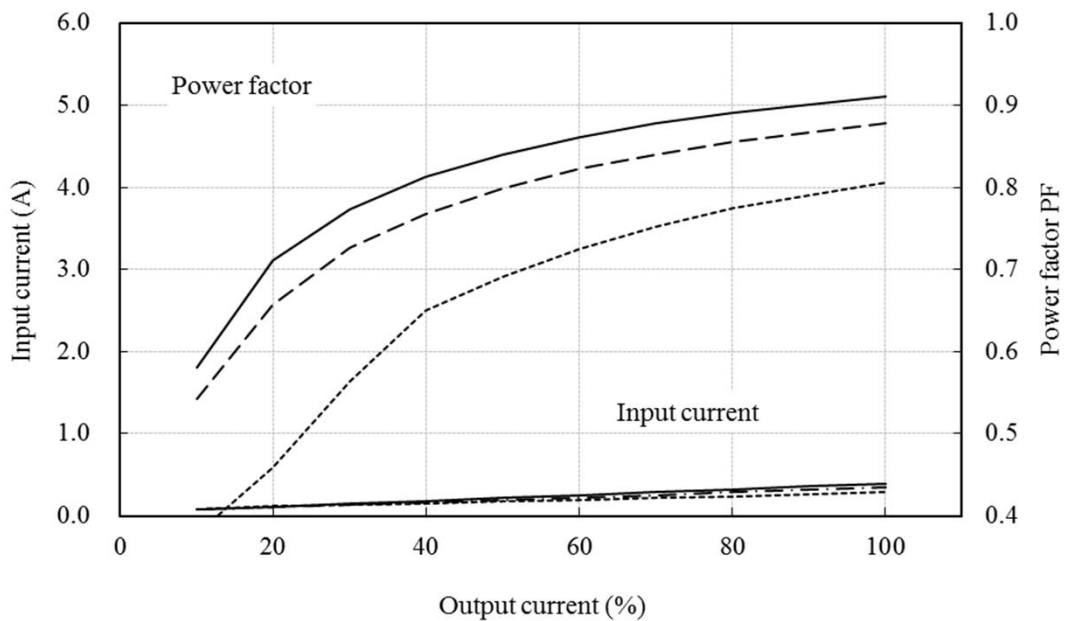
$\eta$  and PF , input current v.s. output current

25°C

conditions  $V_{in}$  : 170VAC ———  
 : 200VAC - - - - -  
 : 264VAC - - - - -



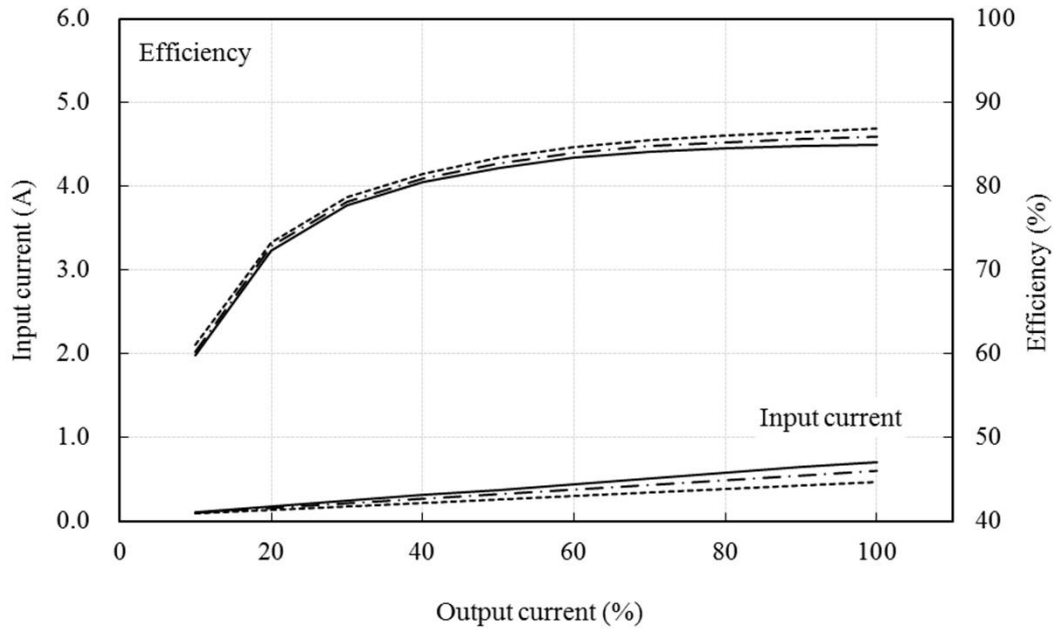
conditions  $V_{in}$  : 170VAC ———  
 : 200VAC - - - - -  
 : 264VAC - - - - -



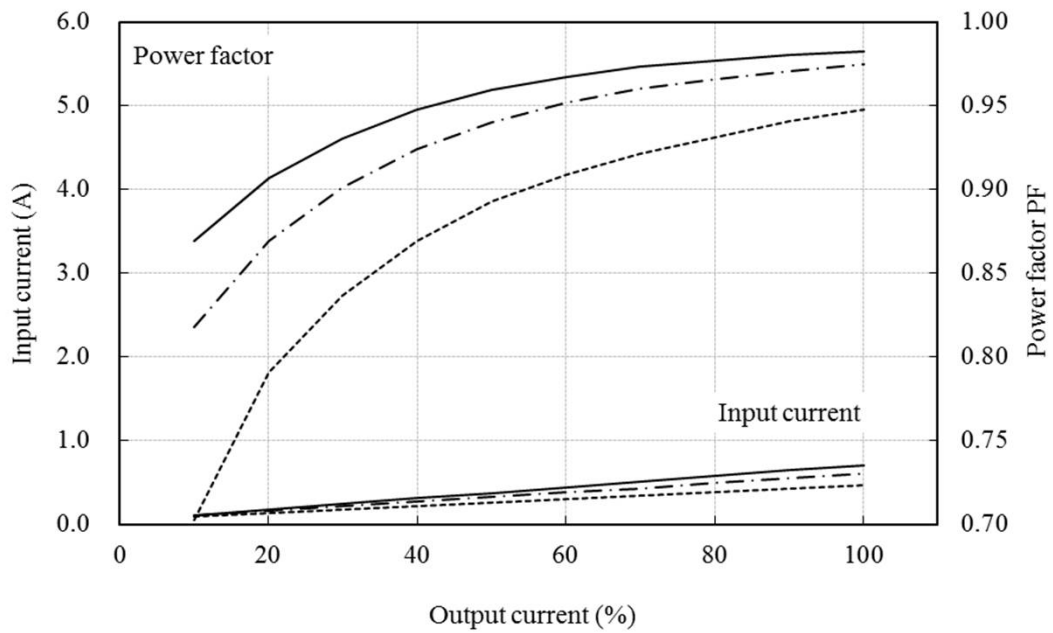
$\eta$  and PF , input current v.s. output current

25°C

conditions Vin : 85VAC ———  
 : 100VAC - - - - -  
 : 132VAC - - - - -



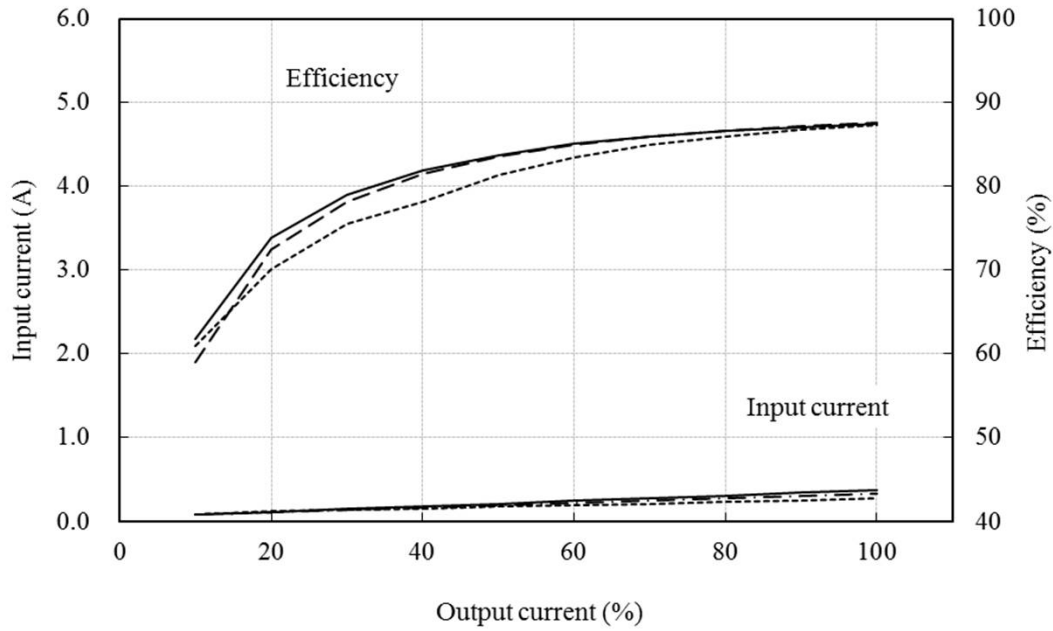
conditions Vin : 85VAC ———  
 : 100VAC - - - - -  
 : 132VAC - - - - -



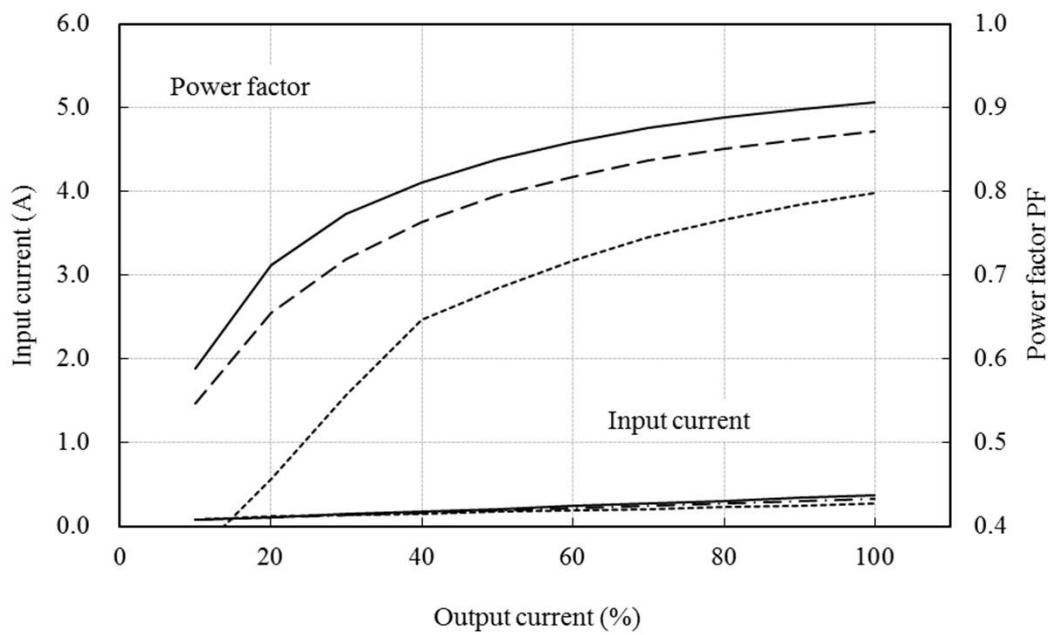
$\eta$  and PF , input current v.s. output current

25°C

conditions  $V_{in}$  : 170VAC ———  
 : 200VAC - - - - -  
 : 264VAC - - - - -



conditions  $V_{in}$  : 170VAC ———  
 : 200VAC - - - - -  
 : 264VAC - - - - -

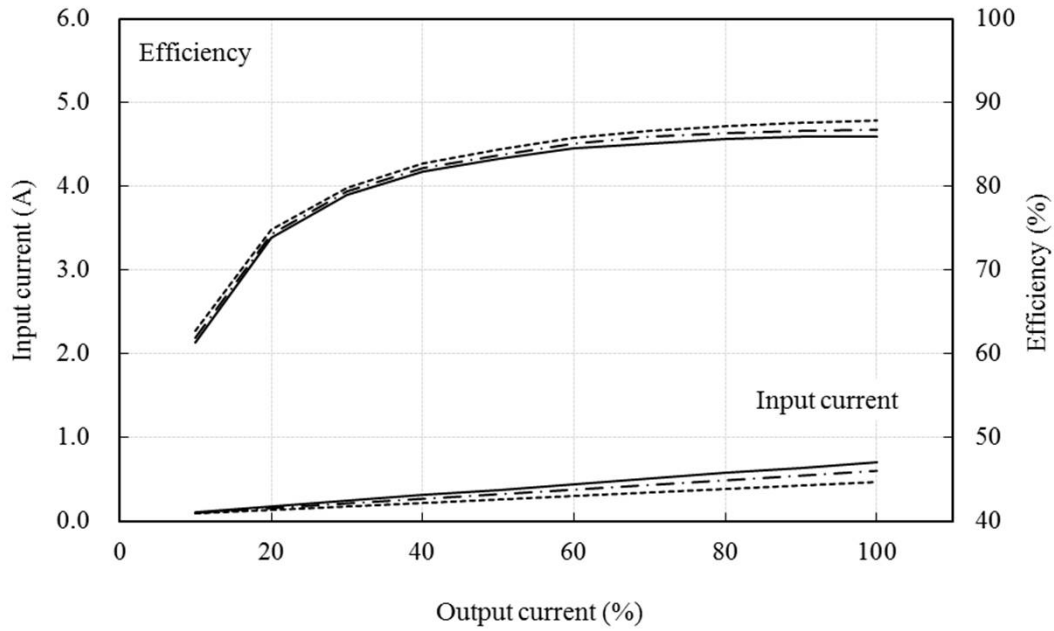




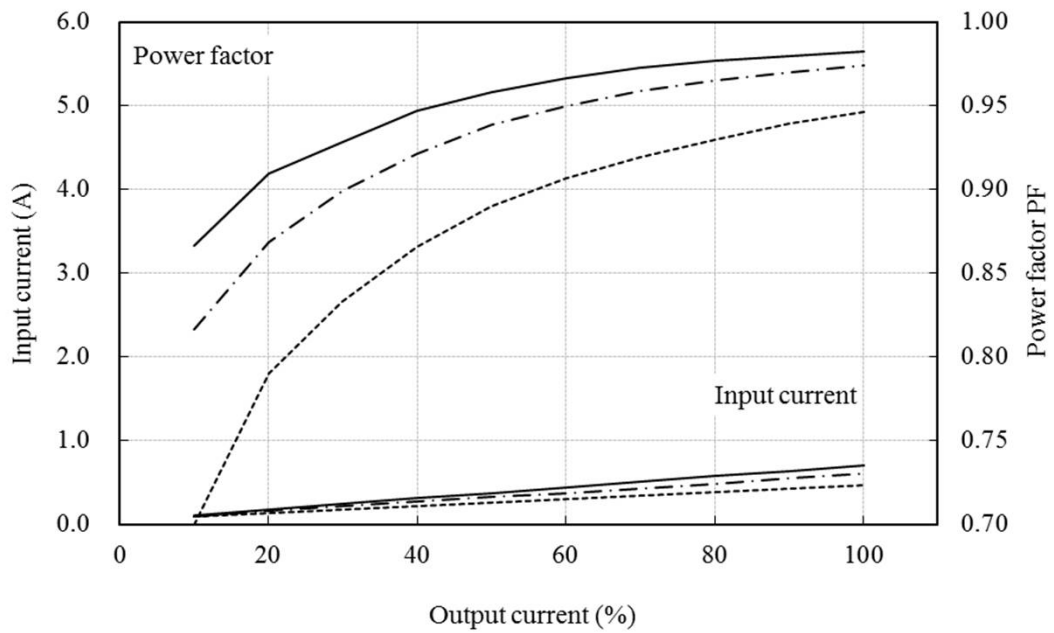
$\eta$  and PF , input current v.s. output current

25°C

conditions Vin : 85VAC ———  
 : 100VAC - - - - -  
 : 132VAC - - - - -



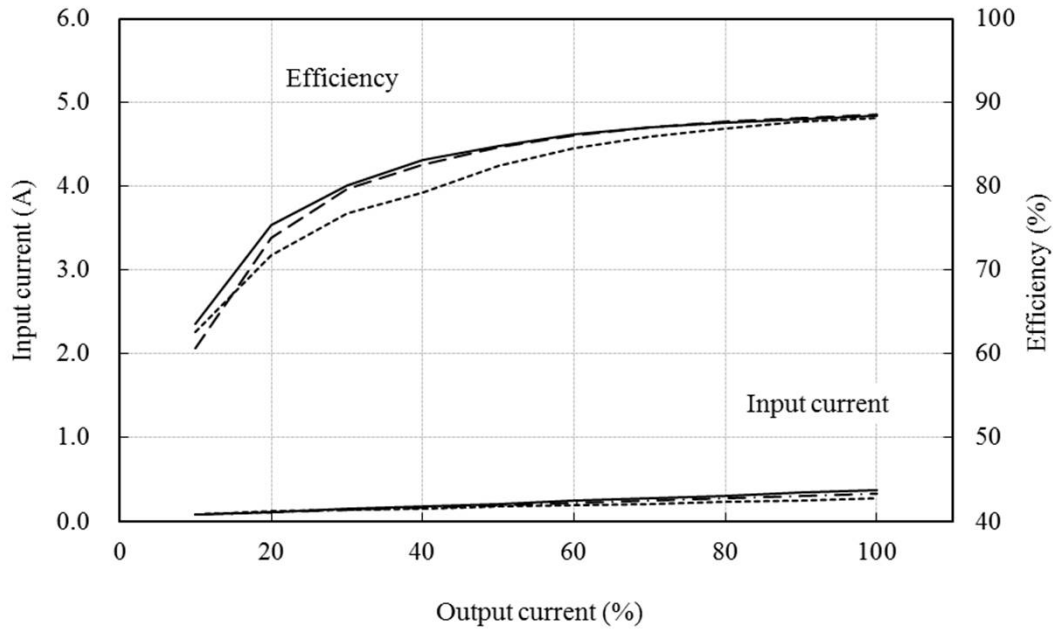
conditions Vin : 85VAC ———  
 : 100VAC - - - - -  
 : 132VAC - - - - -



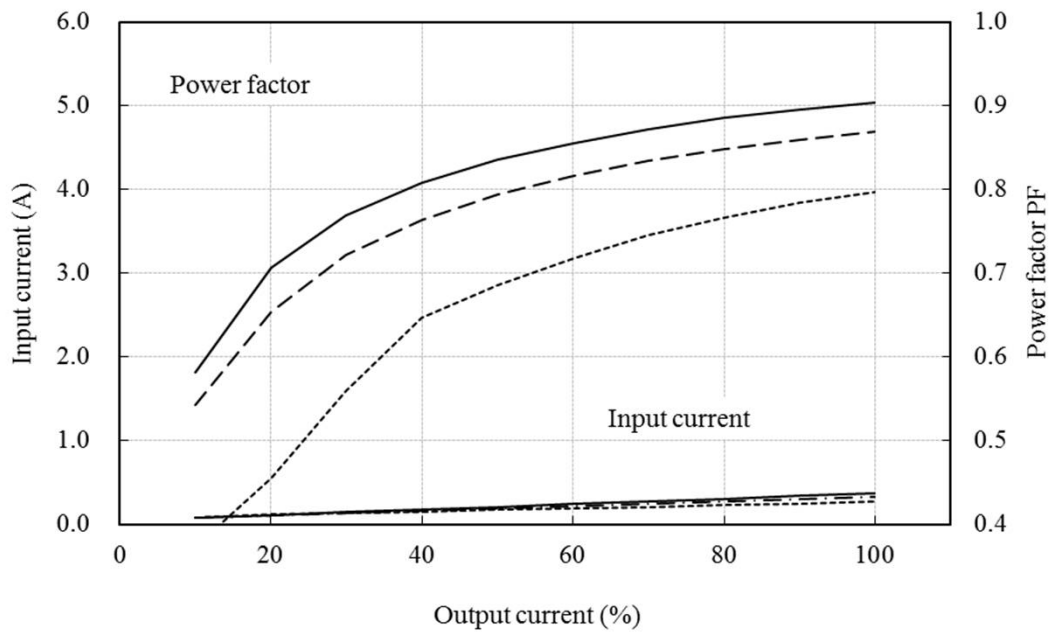
$\eta$  and PF , input current v.s. output current

25°C

conditions  $V_{in}$  : 170VAC ———  
 : 200VAC - - - - -  
 : 264VAC - - - - -



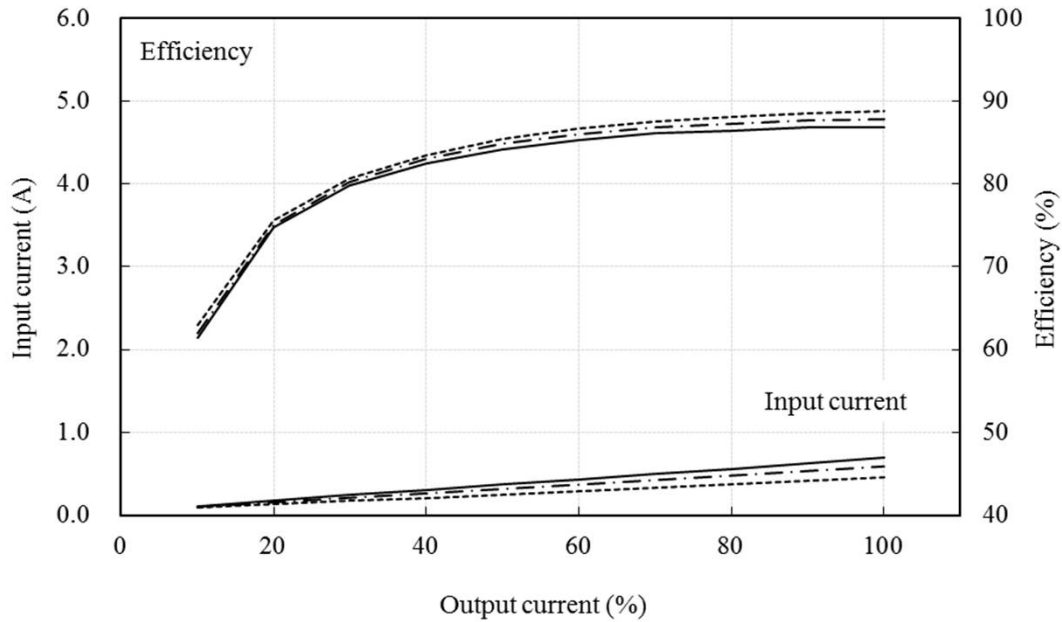
conditions  $V_{in}$  : 170VAC ———  
 : 200VAC - - - - -  
 : 264VAC - - - - -



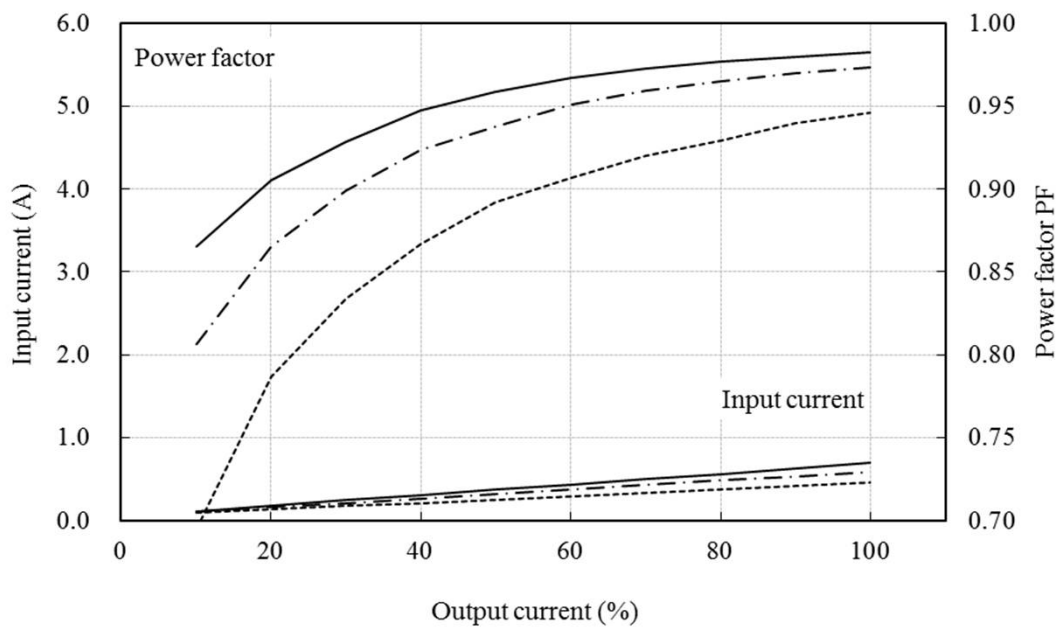
$\eta$  and PF , input current v.s. output current

25°C

conditions Vin : 85VAC ———  
 : 100VAC - - - - -  
 : 132VAC - - - - -



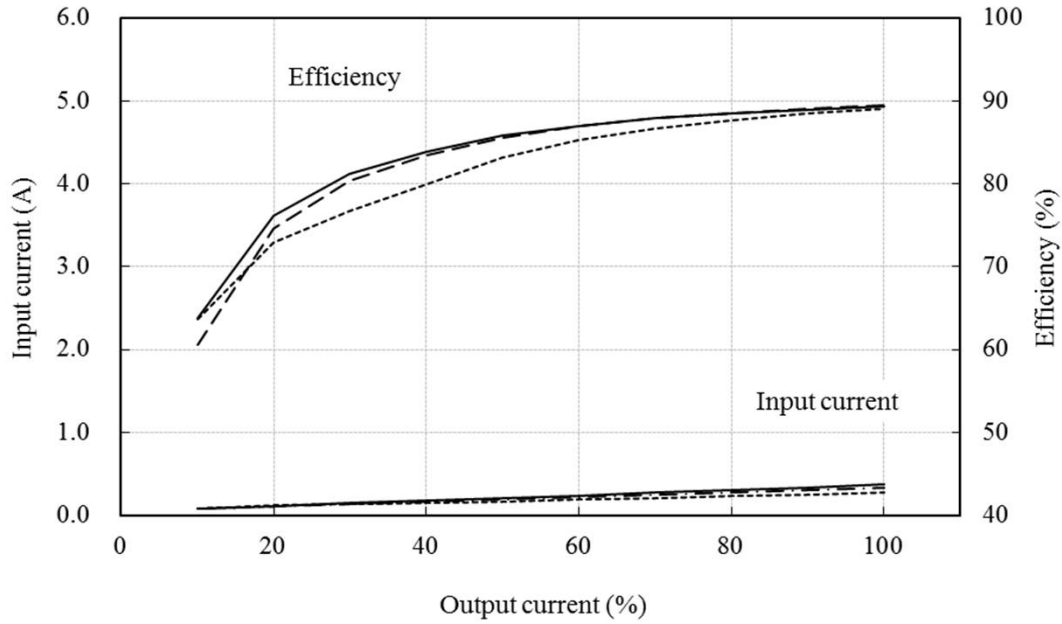
conditions Vin : 85VAC ———  
 : 100VAC - - - - -  
 : 132VAC - - - - -



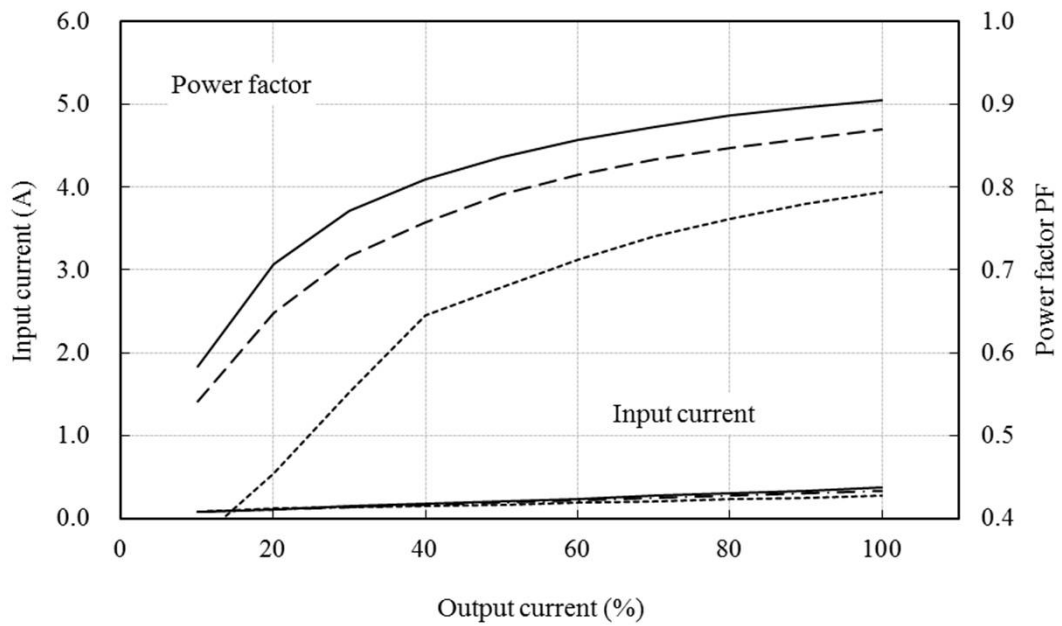
$\eta$  and PF , input current v.s. output current

25°C

conditions  $V_{in}$  : 170VAC ———  
 : 200VAC - - - - -  
 : 264VAC - - - - -



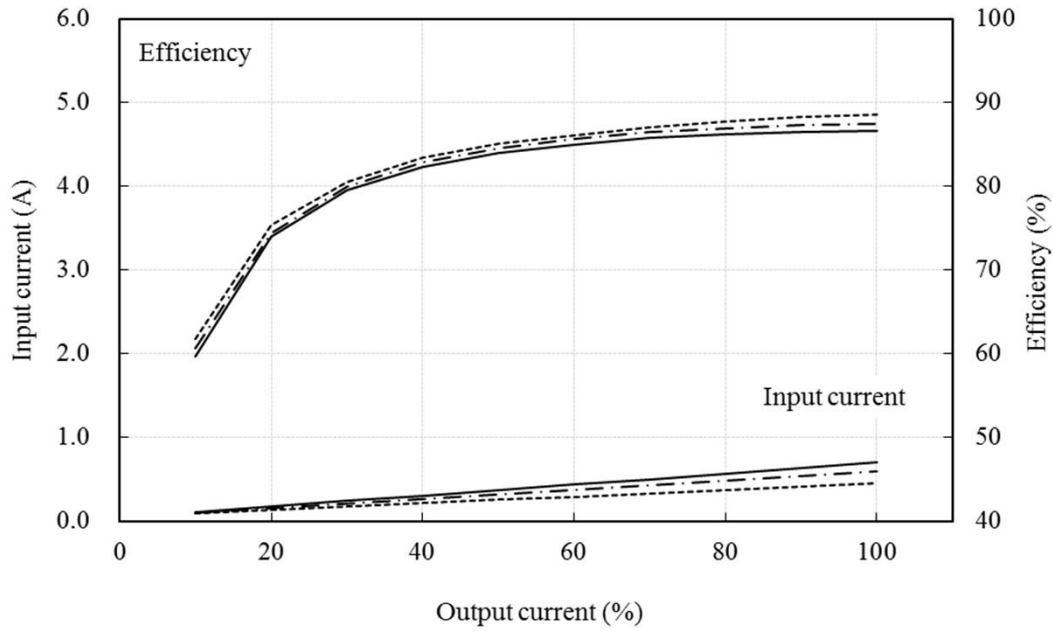
conditions  $V_{in}$  : 170VAC ———  
 : 200VAC - - - - -  
 : 264VAC - - - - -



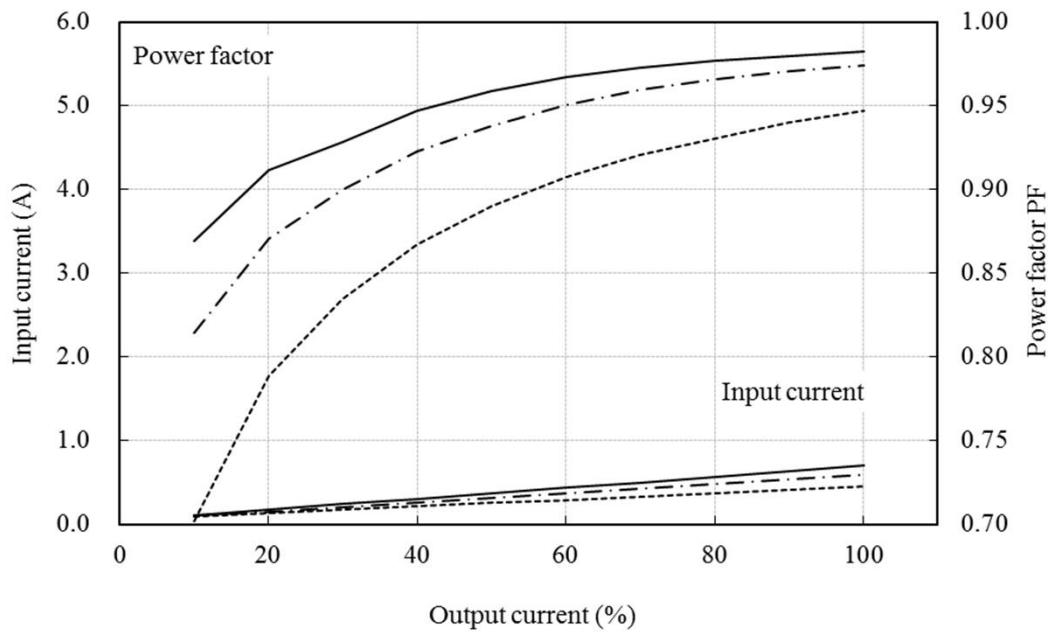
$\eta$  and PF , input current v.s. output current

25°C

conditions  $V_{in}$  : 85VAC ———  
 : 100VAC - - - - -  
 : 132VAC - - - - -



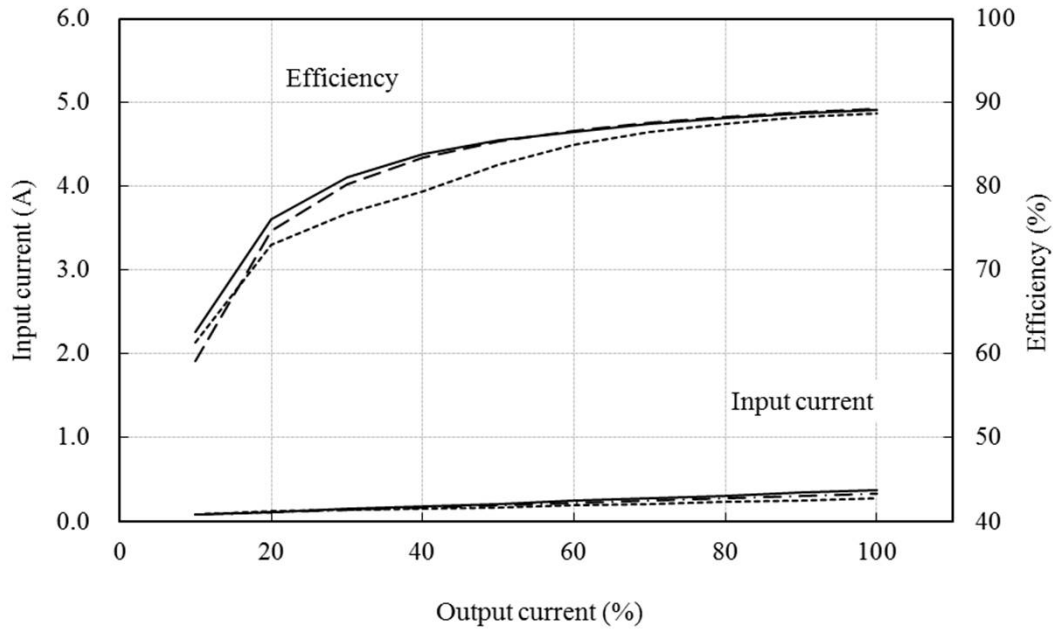
conditions  $V_{in}$  : 85VAC ———  
 : 100VAC - - - - -  
 : 132VAC - - - - -



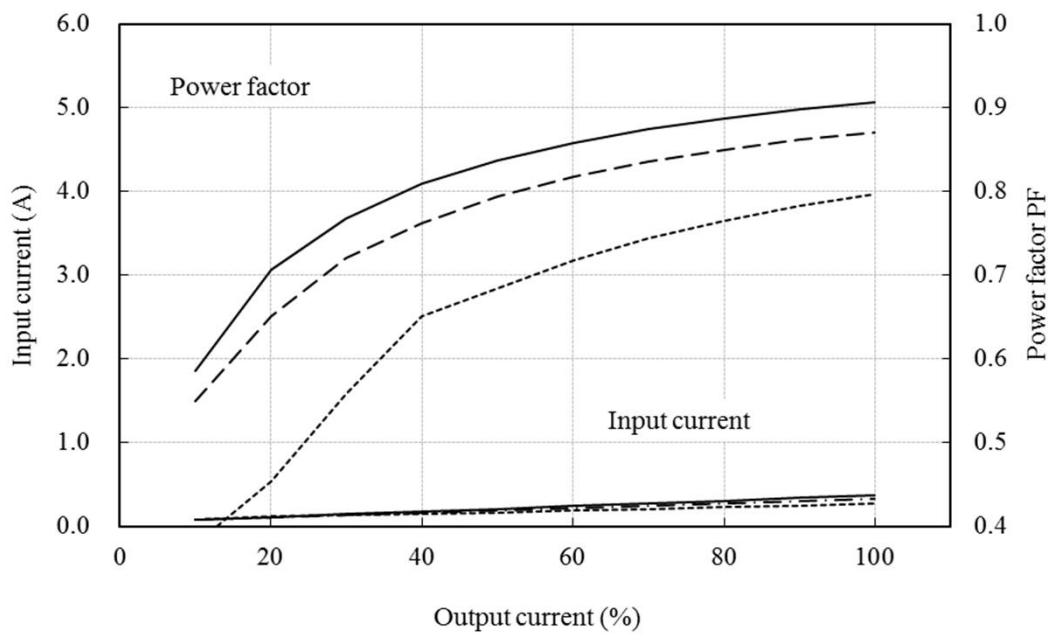
$\eta$  and PF , input current v.s. output current

25°C

conditions Vin : 170VAC ———  
 : 200VAC - - - - -  
 : 264VAC - - - - -



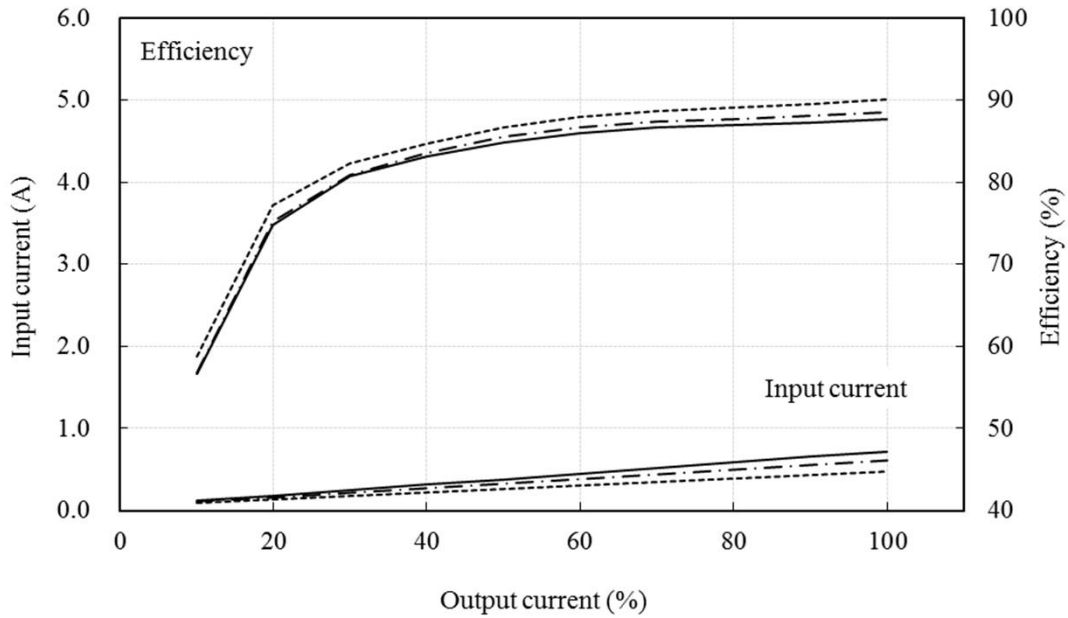
conditions Vin : 170VAC ———  
 : 200VAC - - - - -  
 : 264VAC - - - - -



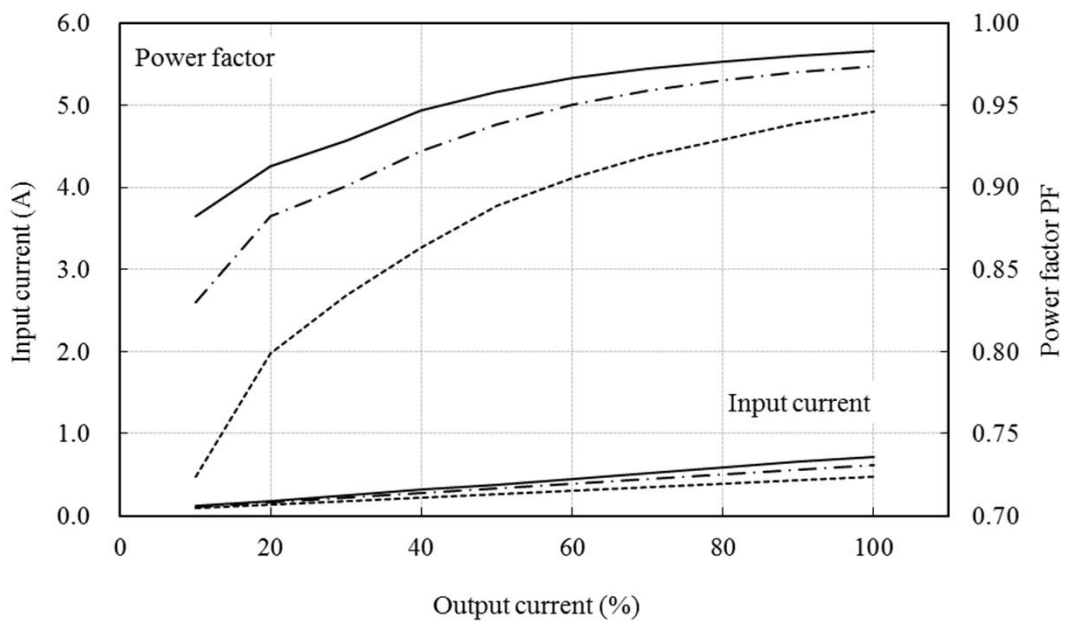
$\eta$  and PF , input current v.s. output current

25°C

conditions Vin : 85VAC ———  
 : 100VAC - - - - -  
 : 132VAC - - - - -



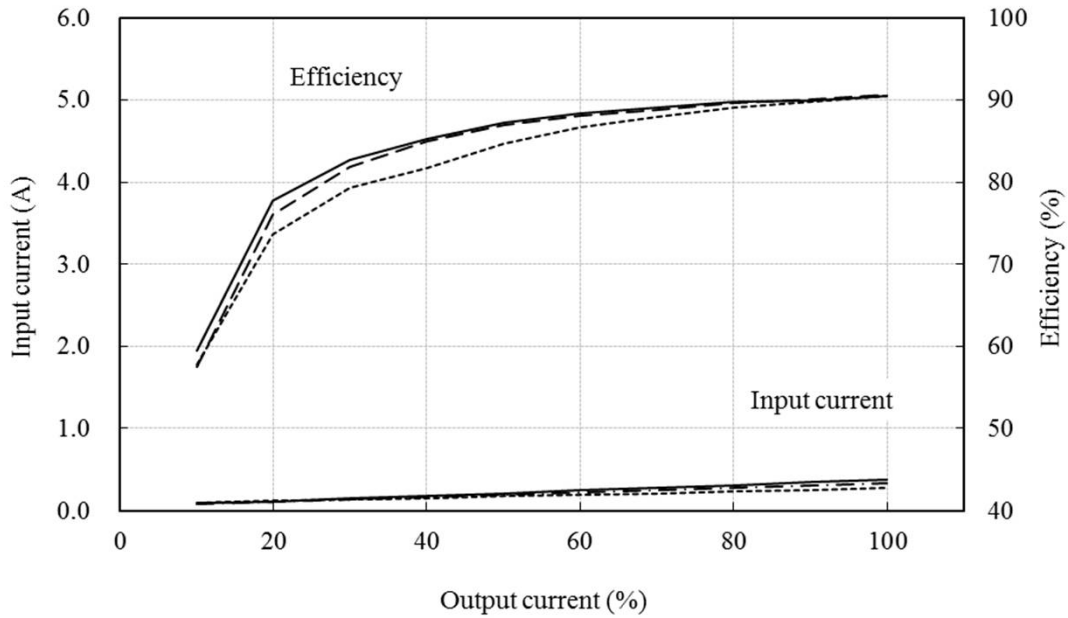
conditions Vin : 85VAC ———  
 : 100VAC - - - - -  
 : 132VAC - - - - -



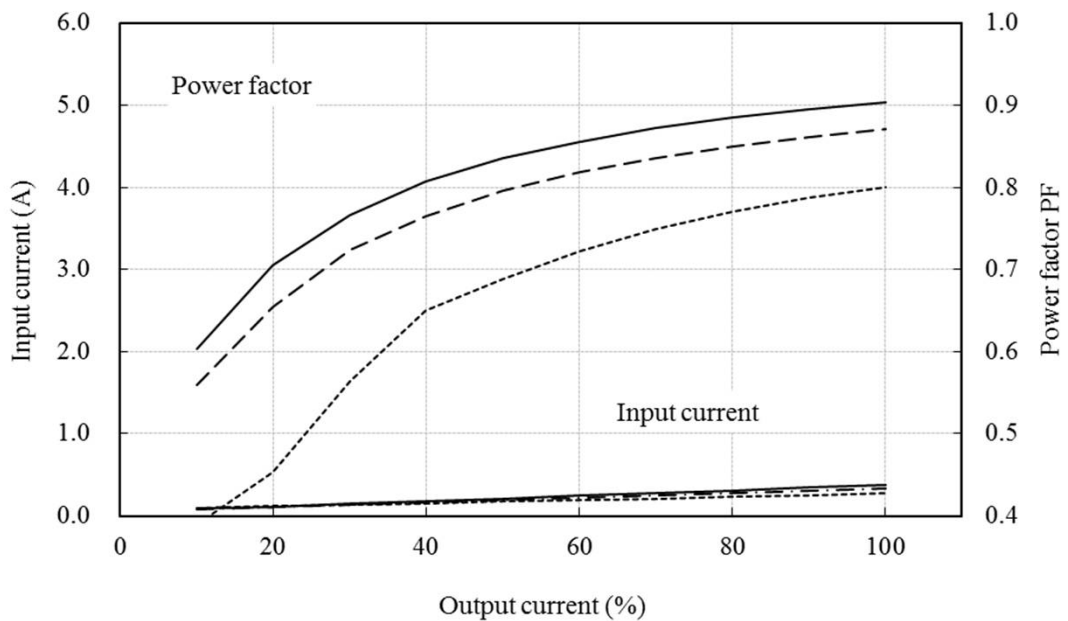
$\eta$  and PF , input current v.s. output current

25°C

conditions Vin : 170VAC ———  
 : 200VAC - - - - -  
 : 264VAC - - - - -



conditions Vin : 170VAC ———  
 : 200VAC - - - - -  
 : 264VAC - - - - -





**MODEL** | **LFS50A-5**

**Regulation - Line and Load**

5V

1. Regulation - line and load

conditions Ta : -10°C

| Vin \ Iout      | 0%      | 20%     | 40%     | 60%     | 80%     | 100%    | 120%   | load regulation |       |
|-----------------|---------|---------|---------|---------|---------|---------|--------|-----------------|-------|
| AC85V           | 5.021 V | 5.019 V | 5.017 V | 5.015 V | 5.014 V | 5.012 V |        | 9 mV            | 0.18% |
| AC100V          | 5.022 V | 5.019 V | 5.017 V | 5.015 V | 5.014 V | 5.012 V |        | 10 mV           | 0.19% |
| AC132V          | 5.022 V | 5.019 V | 5.017 V | 5.015 V | 5.014 V | 5.012 V |        | 10 mV           | 0.19% |
| AC170V          | 5.022 V | 5.019 V | 5.017 V | 5.015 V | 5.014 V | 5.012 V |        | 10 mV           | 0.19% |
| AC200V          | 5.022 V | 5.019 V | 5.017 V | 5.015 V | 5.014 V | 5.012 V |        | 10 mV           | 0.19% |
| AC264V          | 5.022 V | 5.019 V | 5.017 V | 5.015 V | 5.013 V | 5.012 V |        | 10 mV           | 0.19% |
| line regulation | 1.1 mV  | 0.6 mV  | 0.5 mV  | 0.5 mV  | 0.5 mV  | 0.4 mV  | 0.0 mV |                 |       |
|                 | 0.02%   | 0.01%   | 0.01%   | 0.01%   | 0.01%   | 0.01%   | 0.00%  |                 |       |

conditions Ta : 25°C

| Vin \ Iout      | 0%      | 20%     | 40%     | 60%     | 80%     | 100%    | 120%   | load regulation |       |
|-----------------|---------|---------|---------|---------|---------|---------|--------|-----------------|-------|
| AC85V           | 5.027 V | 5.025 V | 5.023 V | 5.021 V | 5.019 V | 5.017 V |        | 10 mV           | 0.19% |
| AC100V          | 5.028 V | 5.026 V | 5.023 V | 5.021 V | 5.019 V | 5.018 V |        | 10 mV           | 0.21% |
| AC132V          | 5.029 V | 5.026 V | 5.024 V | 5.022 V | 5.020 V | 5.018 V |        | 11 mV           | 0.21% |
| AC170V          | 5.029 V | 5.027 V | 5.024 V | 5.022 V | 5.020 V | 5.019 V |        | 11 mV           | 0.22% |
| AC200V          | 5.030 V | 5.027 V | 5.025 V | 5.023 V | 5.021 V | 5.019 V |        | 11 mV           | 0.22% |
| AC264V          | 5.030 V | 5.028 V | 5.025 V | 5.023 V | 5.021 V | 5.019 V |        | 11 mV           | 0.22% |
| line regulation | 3.5 mV  | 2.9 mV  | 2.6 mV  | 2.4 mV  | 2.2 mV  | 2.0 mV  | 0.0 mV |                 |       |
|                 | 0.07%   | 0.06%   | 0.05%   | 0.05%   | 0.04%   | 0.04%   | 0.00%  |                 |       |

conditions Ta : 60°C

| Vin \ Iout      | 0%      | 20%     | 40%     | 60%     | 80%     | 100%    | 120%   | load regulation |       |
|-----------------|---------|---------|---------|---------|---------|---------|--------|-----------------|-------|
| AC85V           | 5.036 V | 5.033 V | 5.031 V | 5.029 V | 5.028 V | 5.026 V |        | 10 mV           | 0.20% |
| AC100V          | 5.038 V | 5.035 V | 5.032 V | 5.030 V | 5.028 V | 5.027 V |        | 11 mV           | 0.22% |
| AC132V          | 5.038 V | 5.036 V | 5.033 V | 5.031 V | 5.029 V | 5.027 V |        | 11 mV           | 0.22% |
| AC170V          | 5.039 V | 5.036 V | 5.034 V | 5.032 V | 5.029 V | 5.028 V |        | 11 mV           | 0.23% |
| AC200V          | 5.039 V | 5.037 V | 5.034 V | 5.032 V | 5.030 V | 5.028 V |        | 11 mV           | 0.23% |
| AC264V          | 5.040 V | 5.037 V | 5.035 V | 5.033 V | 5.030 V | 5.029 V |        | 12 mV           | 0.24% |
| line regulation | 4.5 mV  | 3.9 mV  | 3.4 mV  | 3.2 mV  | 2.9 mV  | 2.8 mV  | 0.0 mV |                 |       |
|                 | 0.09%   | 0.08%   | 0.07%   | 0.06%   | 0.06%   | 0.06%   | 0.00%  |                 |       |

2. Temperature drift

conditions Vin : 100VAC  
Iout : 100%

| Ta | -10°C   | 25°C    | 60°C    | temperature stability |       |
|----|---------|---------|---------|-----------------------|-------|
| Vo | 5.012 V | 5.018 V | 5.027 V | 14mV                  | 0.29% |

**MODEL** LFS50A-12**Regulation - Line and Load**

12V

## 1.Regulation - line and load

conditions Ta : -10°C

| Vin \ Iout      | 0%       | 20%      | 40%      | 60%      | 80%      | 100%     | 120%   | load regulation |       |
|-----------------|----------|----------|----------|----------|----------|----------|--------|-----------------|-------|
| AC85V           | 12.046 V | 12.046 V | 12.046 V | 12.045 V | 12.044 V | 12.044 V |        | 2 mV            | 0.02% |
| AC100V          | 12.048 V | 12.047 V | 12.046 V | 12.045 V | 12.045 V | 12.044 V |        | 4 mV            | 0.03% |
| AC132V          | 12.049 V | 12.048 V | 12.046 V | 12.046 V | 12.045 V | 12.045 V |        | 4 mV            | 0.03% |
| AC170V          | 12.049 V | 12.048 V | 12.047 V | 12.046 V | 12.046 V | 12.045 V |        | 4 mV            | 0.03% |
| AC200V          | 12.050 V | 12.048 V | 12.047 V | 12.047 V | 12.046 V | 12.046 V |        | 4 mV            | 0.03% |
| AC264V          | 12.050 V | 12.049 V | 12.048 V | 12.047 V | 12.046 V | 12.046 V |        | 4 mV            | 0.04% |
| line regulation | 3.8 mV   | 2.6 mV   | 2.0 mV   | 2.0 mV   | 1.9 mV   | 1.9 mV   | 0.0 mV |                 |       |
|                 | 0.03%    | 0.02%    | 0.02%    | 0.02%    | 0.02%    | 0.02%    | 0.00%  |                 |       |

conditions Ta : 25°C

| Vin \ Iout      | 0%       | 20%      | 40%      | 60%      | 80%      | 100%     | 120%   | load regulation |       |
|-----------------|----------|----------|----------|----------|----------|----------|--------|-----------------|-------|
| AC85V           | 12.068 V | 12.068 V | 12.067 V | 12.067 V | 12.066 V | 12.066 V |        | 3 mV            | 0.02% |
| AC100V          | 12.071 V | 12.069 V | 12.069 V | 12.068 V | 12.067 V | 12.067 V |        | 4 mV            | 0.03% |
| AC132V          | 12.072 V | 12.070 V | 12.069 V | 12.069 V | 12.068 V | 12.068 V |        | 4 mV            | 0.03% |
| AC170V          | 12.072 V | 12.071 V | 12.070 V | 12.069 V | 12.069 V | 12.068 V |        | 4 mV            | 0.03% |
| AC200V          | 12.073 V | 12.072 V | 12.071 V | 12.070 V | 12.069 V | 12.069 V |        | 4 mV            | 0.03% |
| AC264V          | 12.073 V | 12.071 V | 12.070 V | 12.069 V | 12.069 V | 12.068 V |        | 5 mV            | 0.04% |
| line regulation | 4.4 mV   | 3.9 mV   | 3.5 mV   | 3.2 mV   | 2.9 mV   | 2.7 mV   | 0.0 mV |                 |       |
|                 | 0.04%    | 0.03%    | 0.03%    | 0.03%    | 0.02%    | 0.02%    | 0.00%  |                 |       |

conditions Ta : 60°C

| Vin \ Iout      | 0%       | 20%      | 40%      | 60%      | 80%      | 100%     | 120%   | load regulation |       |
|-----------------|----------|----------|----------|----------|----------|----------|--------|-----------------|-------|
| AC85V           | 12.091 V | 12.090 V | 12.090 V | 12.089 V | 12.088 V | 12.088 V |        | 3 mV            | 0.02% |
| AC100V          | 12.093 V | 12.092 V | 12.091 V | 12.090 V | 12.090 V | 12.089 V |        | 4 mV            | 0.03% |
| AC132V          | 12.094 V | 12.093 V | 12.092 V | 12.091 V | 12.091 V | 12.090 V |        | 4 mV            | 0.03% |
| AC170V          | 12.095 V | 12.094 V | 12.093 V | 12.092 V | 12.091 V | 12.091 V |        | 4 mV            | 0.04% |
| AC200V          | 12.096 V | 12.095 V | 12.094 V | 12.093 V | 12.092 V | 12.092 V |        | 4 mV            | 0.04% |
| AC264V          | 12.097 V | 12.096 V | 12.095 V | 12.094 V | 12.093 V | 12.092 V |        | 5 mV            | 0.04% |
| line regulation | 6.2 mV   | 5.6 mV   | 5.2 mV   | 4.9 mV   | 4.6 mV   | 4.3 mV   | 0.0 mV |                 |       |
|                 | 0.05%    | 0.05%    | 0.04%    | 0.04%    | 0.04%    | 0.04%    | 0.00%  |                 |       |

## 2. Temperature drift

conditions Vin : 100VAC  
Iout : 100%

| Ta | -10°C    | 25°C     | 60°C     | temperature stability |       |
|----|----------|----------|----------|-----------------------|-------|
| Vo | 12.044 V | 12.067 V | 12.089 V | 45mV                  | 0.38% |

**MODEL** LFS50A-15**Regulation - Line and Load**

15V

## 1.Regulation - line and load

conditions Ta : -10°C

| Vin \ Iout      | 0%       | 20%      | 40%      | 60%      | 80%      | 100%     | 120%   | load regulation |       |
|-----------------|----------|----------|----------|----------|----------|----------|--------|-----------------|-------|
| AC85V           | 15.031 V | 15.031 V | 15.030 V | 15.030 V | 15.029 V | 15.029 V |        | 3 mV            | 0.02% |
| AC100V          | 15.033 V | 15.031 V | 15.031 V | 15.030 V | 15.029 V | 15.029 V |        | 3 mV            | 0.02% |
| AC132V          | 15.033 V | 15.032 V | 15.032 V | 15.031 V | 15.030 V | 15.030 V |        | 3 mV            | 0.02% |
| AC170V          | 15.034 V | 15.033 V | 15.032 V | 15.031 V | 15.031 V | 15.030 V |        | 4 mV            | 0.02% |
| AC200V          | 15.034 V | 15.033 V | 15.032 V | 15.032 V | 15.031 V | 15.031 V |        | 4 mV            | 0.02% |
| AC264V          | 15.035 V | 15.034 V | 15.033 V | 15.032 V | 15.031 V | 15.031 V |        | 4 mV            | 0.03% |
| line regulation | 3.8 mV   | 2.7 mV   | 2.3 mV   | 2.4 mV   | 2.3 mV   | 2.3 mV   | 0.0 mV |                 |       |
|                 | 0.03%    | 0.02%    | 0.02%    | 0.02%    | 0.02%    | 0.02%    | 0.00%  |                 |       |

conditions Ta : 25°C

| Vin \ Iout      | 0%       | 20%      | 40%      | 60%      | 80%      | 100%     | 120%   | load regulation |       |
|-----------------|----------|----------|----------|----------|----------|----------|--------|-----------------|-------|
| AC85V           | 15.055 V | 15.054 V | 15.054 V | 15.053 V | 15.053 V | 15.052 V |        | 2 mV            | 0.02% |
| AC100V          | 15.056 V | 15.055 V | 15.055 V | 15.054 V | 15.054 V | 15.053 V |        | 3 mV            | 0.02% |
| AC132V          | 15.057 V | 15.056 V | 15.056 V | 15.055 V | 15.054 V | 15.054 V |        | 4 mV            | 0.02% |
| AC170V          | 15.058 V | 15.057 V | 15.056 V | 15.055 V | 15.054 V | 15.054 V |        | 4 mV            | 0.03% |
| AC200V          | 15.058 V | 15.057 V | 15.056 V | 15.056 V | 15.055 V | 15.054 V |        | 4 mV            | 0.03% |
| AC264V          | 15.059 V | 15.057 V | 15.057 V | 15.056 V | 15.055 V | 15.055 V |        | 4 mV            | 0.03% |
| line regulation | 4.2 mV   | 3.3 mV   | 3.1 mV   | 2.8 mV   | 2.7 mV   | 2.5 mV   | 0.0 mV |                 |       |
|                 | 0.03%    | 0.02%    | 0.02%    | 0.02%    | 0.02%    | 0.02%    | 0.00%  |                 |       |

conditions Ta : 60°C

| Vin \ Iout      | 0%       | 20%      | 40%      | 60%      | 80%      | 100%     | 120%   | load regulation |       |
|-----------------|----------|----------|----------|----------|----------|----------|--------|-----------------|-------|
| AC85V           | 15.070 V | 15.069 V | 15.068 V | 15.067 V | 15.067 V | 15.066 V |        | 3 mV            | 0.02% |
| AC100V          | 15.071 V | 15.070 V | 15.069 V | 15.068 V | 15.068 V | 15.067 V |        | 4 mV            | 0.02% |
| AC132V          | 15.072 V | 15.071 V | 15.070 V | 15.069 V | 15.068 V | 15.068 V |        | 4 mV            | 0.03% |
| AC170V          | 15.072 V | 15.071 V | 15.070 V | 15.069 V | 15.068 V | 15.068 V |        | 4 mV            | 0.03% |
| AC200V          | 15.072 V | 15.071 V | 15.070 V | 15.070 V | 15.069 V | 15.068 V |        | 4 mV            | 0.03% |
| AC264V          | 15.073 V | 15.072 V | 15.071 V | 15.070 V | 15.069 V | 15.069 V |        | 4 mV            | 0.03% |
| line regulation | 3.4 mV   | 2.9 mV   | 2.6 mV   | 2.5 mV   | 2.1 mV   | 2.2 mV   | 0.0 mV |                 |       |
|                 | 0.02%    | 0.02%    | 0.02%    | 0.02%    | 0.01%    | 0.01%    | 0.00%  |                 |       |

## 2. Temperature drift

conditions Vin : 100VAC  
Iout : 100%

| Ta | -10°C    | 25°C     | 60°C     | temperature stability |       |
|----|----------|----------|----------|-----------------------|-------|
| Vo | 15.029 V | 15.053 V | 15.067 V | 38mV                  | 0.25% |

**MODEL** LFS50A-24

**Regulation - Line and Load**

24V

1.Regulation - line and load

conditions Ta : -10°C

| Vin \ Iout      | 0%       | 20%      | 40%      | 60%      | 80%      | 100%     | 120%   | load regulation |       |
|-----------------|----------|----------|----------|----------|----------|----------|--------|-----------------|-------|
| AC85V           | 24.043 V | 24.042 V | 24.038 V | 24.039 V | 24.039 V | 24.038 V |        | 5 mV            | 0.02% |
| AC100V          | 24.041 V | 24.040 V | 24.040 V | 24.039 V | 24.039 V | 24.039 V |        | 3 mV            | 0.01% |
| AC132V          | 24.042 V | 24.041 V | 24.040 V | 24.040 V | 24.040 V | 24.039 V |        | 3 mV            | 0.01% |
| AC170V          | 24.042 V | 24.041 V | 24.041 V | 24.040 V | 24.040 V | 24.039 V |        | 3 mV            | 0.01% |
| AC200V          | 24.042 V | 24.041 V | 24.041 V | 24.040 V | 24.040 V | 24.039 V |        | 3 mV            | 0.01% |
| AC264V          | 24.044 V | 24.043 V | 24.043 V | 24.042 V | 24.042 V | 24.042 V |        | 2 mV            | 0.01% |
| line regulation | 2.4 mV   | 3.2 mV   | 4.7 mV   | 3.6 mV   | 3.3 mV   | 4.0 mV   | 0.0 mV |                 |       |
|                 | 0.01%    | 0.01%    | 0.02%    | 0.02%    | 0.01%    | 0.02%    | 0.00%  |                 |       |

conditions Ta : 25°C

| Vin \ Iout      | 0%       | 20%      | 40%      | 60%      | 80%      | 100%     | 120%   | load regulation |       |
|-----------------|----------|----------|----------|----------|----------|----------|--------|-----------------|-------|
| AC85V           | 24.065 V | 24.064 V | 24.064 V | 24.064 V | 24.063 V | 24.063 V |        | 2 mV            | 0.01% |
| AC100V          | 24.066 V | 24.066 V | 24.065 V | 24.065 V | 24.065 V | 24.064 V |        | 2 mV            | 0.01% |
| AC132V          | 24.067 V | 24.066 V | 24.066 V | 24.065 V | 24.065 V | 24.064 V |        | 3 mV            | 0.01% |
| AC170V          | 24.067 V | 24.066 V | 24.065 V | 24.065 V | 24.064 V | 24.064 V |        | 3 mV            | 0.01% |
| AC200V          | 24.067 V | 24.066 V | 24.065 V | 24.065 V | 24.064 V | 24.064 V |        | 3 mV            | 0.01% |
| AC264V          | 24.067 V | 24.066 V | 24.065 V | 24.065 V | 24.064 V | 24.063 V |        | 4 mV            | 0.01% |
| line regulation | 2.2 mV   | 2.0 mV   | 1.7 mV   | 1.6 mV   | 1.4 mV   | 1.6 mV   | 0.0 mV |                 |       |
|                 | 0.01%    | 0.01%    | 0.01%    | 0.01%    | 0.01%    | 0.01%    | 0.00%  |                 |       |

conditions Ta : 60°C

| Vin \ Iout      | 0%       | 20%      | 40%      | 60%      | 80%      | 100%     | 120%   | load regulation |       |
|-----------------|----------|----------|----------|----------|----------|----------|--------|-----------------|-------|
| AC85V           | 24.061 V | 24.060 V | 24.060 V | 24.060 V | 24.060 V | 24.062 V |        | 2 mV            | 0.01% |
| AC100V          | 24.067 V | 24.067 V | 24.067 V | 24.068 V | 24.067 V | 24.067 V |        | 1 mV            | 0.01% |
| AC132V          | 24.071 V | 24.071 V | 24.070 V | 24.070 V | 24.069 V | 24.068 V |        | 3 mV            | 0.01% |
| AC170V          | 24.072 V | 24.071 V | 24.071 V | 24.070 V | 24.070 V | 24.069 V |        | 3 mV            | 0.01% |
| AC200V          | 24.072 V | 24.071 V | 24.071 V | 24.070 V | 24.069 V | 24.069 V |        | 3 mV            | 0.01% |
| AC264V          | 24.072 V | 24.071 V | 24.071 V | 24.070 V | 24.069 V | 24.068 V |        | 5 mV            | 0.02% |
| line regulation | 11.0 mV  | 11.3 mV  | 10.7 mV  | 10.5 mV  | 9.5 mV   | 7.3 mV   | 0.0 mV |                 |       |
|                 | 0.05%    | 0.05%    | 0.04%    | 0.04%    | 0.04%    | 0.03%    | 0.00%  |                 |       |

2. Temperature drift

conditions Vin : 100VAC  
Iout : 100%

| Ta | -10°C    | 25°C     | 60°C     | temperature stability |       |
|----|----------|----------|----------|-----------------------|-------|
| Vo | 24.039 V | 24.064 V | 24.067 V | 28mV                  | 0.12% |

**MODEL** LFS50A-30**Regulation - Line and Load**

30V

## 1.Regulation - line and load

conditions Ta : -10°C

| Vin \ Iout      | 0%       | 20%      | 40%      | 60%      | 80%      | 100%     | 120%   | load regulation |       |
|-----------------|----------|----------|----------|----------|----------|----------|--------|-----------------|-------|
| AC85V           | 30.069 V | 30.069 V | 30.068 V | 30.067 V | 30.066 V | 30.067 V |        | 3 mV            | 0.01% |
| AC100V          | 30.075 V | 30.074 V | 30.073 V | 30.072 V | 30.070 V | 30.069 V |        | 6 mV            | 0.02% |
| AC132V          | 30.076 V | 30.074 V | 30.073 V | 30.072 V | 30.070 V | 30.068 V |        | 7 mV            | 0.02% |
| AC170V          | 30.075 V | 30.074 V | 30.073 V | 30.071 V | 30.070 V | 30.069 V |        | 6 mV            | 0.02% |
| AC200V          | 30.075 V | 30.074 V | 30.073 V | 30.072 V | 30.070 V | 30.069 V |        | 6 mV            | 0.02% |
| AC264V          | 30.076 V | 30.074 V | 30.073 V | 30.072 V | 30.071 V | 30.069 V |        | 6 mV            | 0.02% |
| line regulation | 6.8 mV   | 5.5 mV   | 4.9 mV   | 5.2 mV   | 5.2 mV   | 2.0 mV   | 0.0 mV |                 |       |
|                 | 0.02%    | 0.02%    | 0.02%    | 0.02%    | 0.02%    | 0.01%    | 0.00%  |                 |       |

conditions Ta : 25°C

| Vin \ Iout      | 0%       | 20%      | 40%      | 60%      | 80%      | 100%     | 120%   | load regulation |       |
|-----------------|----------|----------|----------|----------|----------|----------|--------|-----------------|-------|
| AC85V           | 30.046 V | 30.045 V | 30.044 V | 30.043 V | 30.041 V | 30.040 V |        | 6 mV            | 0.02% |
| AC100V          | 30.048 V | 30.047 V | 30.046 V | 30.044 V | 30.043 V | 30.042 V |        | 7 mV            | 0.02% |
| AC132V          | 30.049 V | 30.048 V | 30.047 V | 30.045 V | 30.043 V | 30.042 V |        | 7 mV            | 0.02% |
| AC170V          | 30.050 V | 30.049 V | 30.048 V | 30.046 V | 30.044 V | 30.042 V |        | 8 mV            | 0.03% |
| AC200V          | 30.050 V | 30.049 V | 30.048 V | 30.046 V | 30.044 V | 30.043 V |        | 7 mV            | 0.02% |
| AC264V          | 30.049 V | 30.047 V | 30.046 V | 30.043 V | 30.042 V | 30.041 V |        | 8 mV            | 0.03% |
| line regulation | 4.3 mV   | 3.8 mV   | 3.5 mV   | 3.3 mV   | 2.9 mV   | 2.8 mV   | 0.0 mV |                 |       |
|                 | 0.01%    | 0.01%    | 0.01%    | 0.01%    | 0.01%    | 0.01%    | 0.00%  |                 |       |

conditions Ta : 60°C

| Vin \ Iout      | 0%       | 20%      | 40%      | 60%      | 80%      | 100%     | 120%   | load regulation |       |
|-----------------|----------|----------|----------|----------|----------|----------|--------|-----------------|-------|
| AC85V           | 30.041 V | 30.040 V | 30.038 V | 30.036 V | 30.034 V | 30.032 V |        | 8 mV            | 0.03% |
| AC100V          | 30.039 V | 30.036 V | 30.030 V | 30.028 V | 30.032 V | 30.032 V |        | 11 mV           | 0.04% |
| AC132V          | 30.041 V | 30.039 V | 30.037 V | 30.035 V | 30.034 V | 30.034 V |        | 7 mV            | 0.02% |
| AC170V          | 30.042 V | 30.041 V | 30.038 V | 30.037 V | 30.036 V | 30.035 V |        | 8 mV            | 0.03% |
| AC200V          | 30.043 V | 30.041 V | 30.039 V | 30.037 V | 30.035 V | 30.034 V |        | 8 mV            | 0.03% |
| AC264V          | 30.043 V | 30.041 V | 30.040 V | 30.038 V | 30.037 V | 30.036 V |        | 8 mV            | 0.03% |
| line regulation | 4.1 mV   | 5.5 mV   | 9.9 mV   | 9.8 mV   | 4.3 mV   | 3.5 mV   | 0.0 mV |                 |       |
|                 | 0.01%    | 0.02%    | 0.03%    | 0.03%    | 0.01%    | 0.01%    | 0.00%  |                 |       |

## 2. Temperature drift

conditions Vin : 100VAC  
Iout : 100%

| Ta | -10°C    | 25°C     | 60°C     | temperature stability |       |
|----|----------|----------|----------|-----------------------|-------|
| Vo | 30.069 V | 30.042 V | 30.032 V | 37mV                  | 0.12% |

**MODEL** | LFS50A-48

**Regulation - Line and Load**

48V

1. Regulation - line and load

conditions Ta : -10°C

| Vin \ Iout      | 0%       | 20%      | 40%      | 60%      | 80%      | 100%     | 120%   | load regulation |       |
|-----------------|----------|----------|----------|----------|----------|----------|--------|-----------------|-------|
| AC85V           | 48.072 V | 48.071 V | 48.063 V | 48.054 V | 48.051 V | 48.048 V |        | 24 mV           | 0.05% |
| AC100V          | 48.080 V | 48.078 V | 48.067 V | 48.057 V | 48.052 V | 48.049 V |        | 31 mV           | 0.06% |
| AC132V          | 48.081 V | 48.078 V | 48.068 V | 48.058 V | 48.053 V | 48.050 V |        | 31 mV           | 0.06% |
| AC170V          | 48.082 V | 48.080 V | 48.070 V | 48.058 V | 48.054 V | 48.051 V |        | 31 mV           | 0.07% |
| AC200V          | 48.083 V | 48.081 V | 48.070 V | 48.058 V | 48.054 V | 48.051 V |        | 32 mV           | 0.07% |
| AC264V          | 48.087 V | 48.086 V | 48.073 V | 48.078 V | 48.078 V | 48.074 V |        | 14 mV           | 0.03% |
| line regulation | 14.9 mV  | 15.3 mV  | 9.9 mV   | 24.0 mV  | 26.9 mV  | 26.8 mV  | 0.0 mV |                 |       |
|                 | 0.03%    | 0.03%    | 0.02%    | 0.05%    | 0.06%    | 0.06%    | 0.00%  |                 |       |

conditions Ta : 25°C

| Vin \ Iout      | 0%       | 20%      | 40%      | 60%      | 80%      | 100%     | 120%   | load regulation |       |
|-----------------|----------|----------|----------|----------|----------|----------|--------|-----------------|-------|
| AC85V           | 48.117 V | 48.115 V | 48.105 V | 48.093 V | 48.089 V | 48.085 V |        | 32 mV           | 0.07% |
| AC100V          | 48.117 V | 48.115 V | 48.105 V | 48.094 V | 48.090 V | 48.086 V |        | 30 mV           | 0.06% |
| AC132V          | 48.118 V | 48.116 V | 48.105 V | 48.094 V | 48.091 V | 48.087 V |        | 31 mV           | 0.06% |
| AC170V          | 48.119 V | 48.116 V | 48.105 V | 48.094 V | 48.091 V | 48.087 V |        | 32 mV           | 0.07% |
| AC200V          | 48.119 V | 48.116 V | 48.106 V | 48.095 V | 48.091 V | 48.087 V |        | 31 mV           | 0.07% |
| AC264V          | 48.120 V | 48.117 V | 48.106 V | 48.095 V | 48.092 V | 48.088 V |        | 32 mV           | 0.07% |
| line regulation | 2.9 mV   | 2.4 mV   | 1.4 mV   | 2.2 mV   | 3.1 mV   | 2.6 mV   | 0.0 mV |                 |       |
|                 | 0.01%    | 0.01%    | 0.00%    | 0.00%    | 0.01%    | 0.01%    | 0.00%  |                 |       |

conditions Ta : 60°C

| Vin \ Iout      | 0%       | 20%      | 40%      | 60%      | 80%      | 100%     | 120%   | load regulation |       |
|-----------------|----------|----------|----------|----------|----------|----------|--------|-----------------|-------|
| AC85V           | 48.102 V | 48.105 V | 48.095 V | 48.089 V | 48.091 V | 48.099 V |        | 16 mV           | 0.03% |
| AC100V          | 48.133 V | 48.131 V | 48.118 V | 48.105 V | 48.101 V | 48.097 V |        | 37 mV           | 0.08% |
| AC132V          | 48.131 V | 48.128 V | 48.115 V | 48.105 V | 48.101 V | 48.096 V |        | 35 mV           | 0.07% |
| AC170V          | 48.132 V | 48.129 V | 48.117 V | 48.110 V | 48.106 V | 48.094 V |        | 39 mV           | 0.08% |
| AC200V          | 48.128 V | 48.127 V | 48.113 V | 48.109 V | 48.103 V | 48.099 V |        | 29 mV           | 0.06% |
| AC264V          | 48.152 V | 48.150 V | 48.136 V | 48.130 V | 48.125 V | 48.120 V |        | 32 mV           | 0.07% |
| line regulation | 49.7 mV  | 44.7 mV  | 41.7 mV  | 41.4 mV  | 34.1 mV  | 26.2 mV  | 0.0 mV |                 |       |
|                 | 0.10%    | 0.09%    | 0.09%    | 0.09%    | 0.07%    | 0.05%    | 0.00%  |                 |       |

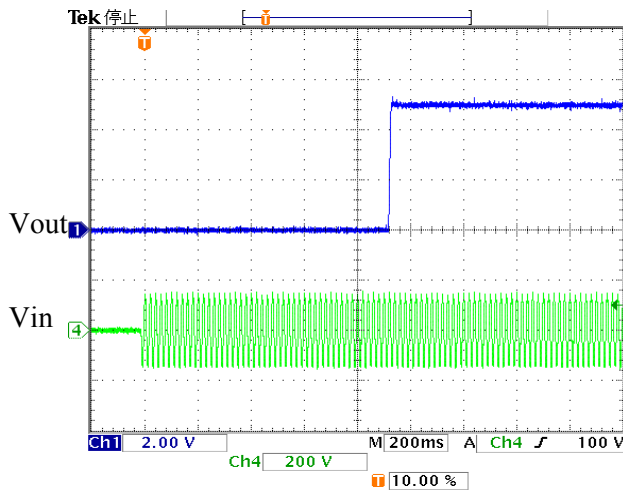
2. Temperature drift

conditions Vin : 100VAC  
Iout : 100%

| Ta | -10°C    | 25°C     | 60°C     | temperature stability |       |
|----|----------|----------|----------|-----------------------|-------|
| Vo | 48.049 V | 48.086 V | 48.097 V | 48mV                  | 0.10% |

Output Rise Waveform and Start Time

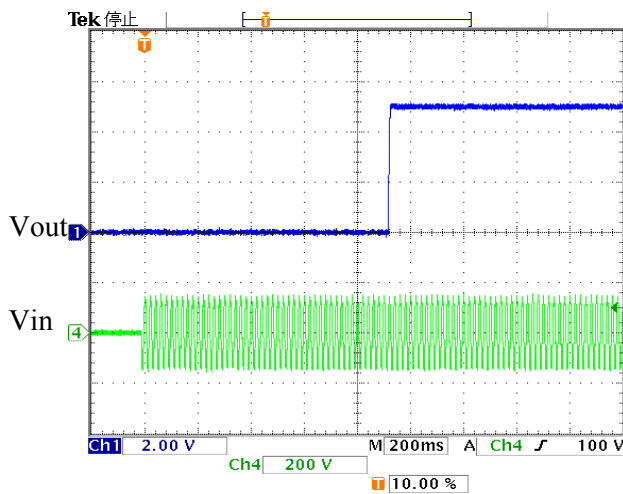
Ta : 25°C



Input Voltage : 100 VAC  
Output Current : 100 %

Vin : 200 VAC/DIV  
Vout : 2 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 928 ms



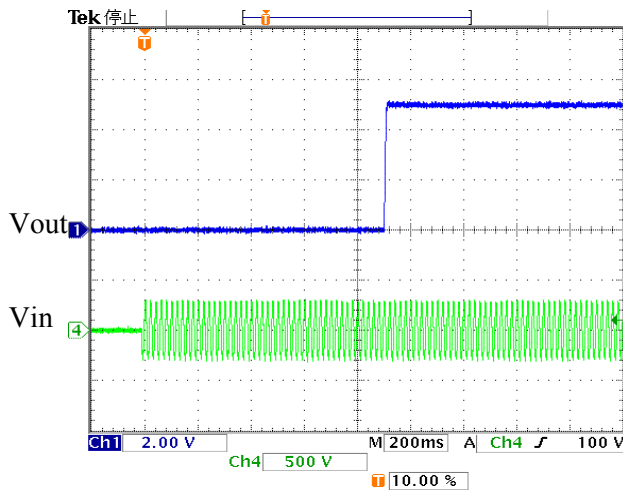
Input Voltage : 100 VAC  
Output Current : 0 %

Vin : 200 VAC/DIV  
Vout : 2 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 928 ms

Output Rise Waveform and Start Time

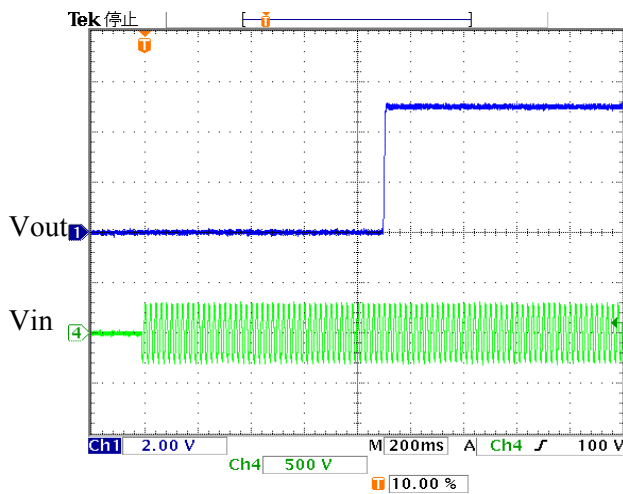
Ta : 25°C



Input Voltage : 200 VAC  
Output Current : 100 %

Vin : 500 VAC/DIV  
Vout : 2 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 908 ms



Input Voltage : 200 VAC  
Output Current : 0 %

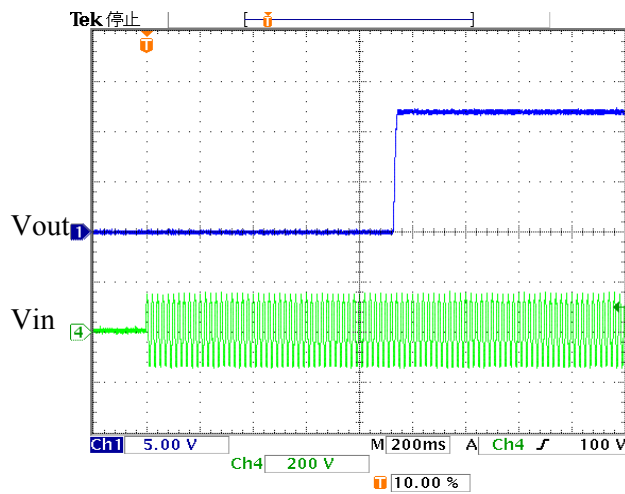
Vin : 500 VAC/DIV  
Vout : 2 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 908 ms



Output Rise Waveform and Start Time

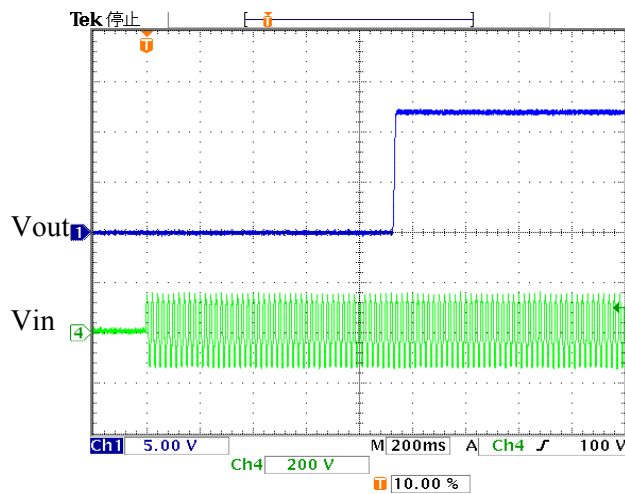
Ta : 25°C



Input Voltage : 100 VAC  
Output Current : 100 %

Vin : 200 VAC/DIV  
Vout : 5 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 948 ms



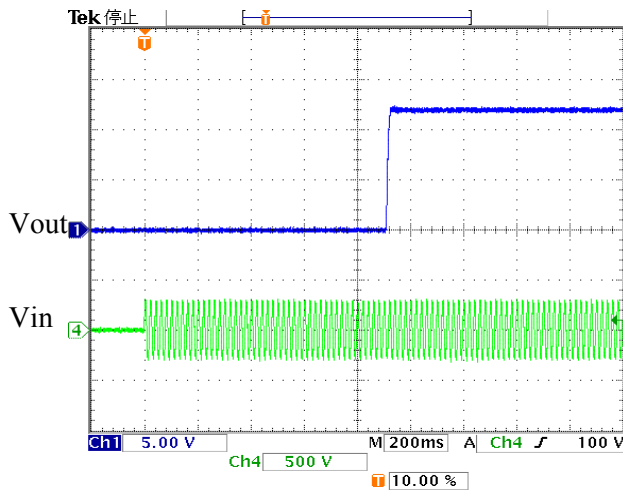
Input Voltage : 100 VAC  
Output Current : 0 %

Vin : 200 VAC/DIV  
Vout : 5 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 940 ms

Output Rise Waveform and Start Time

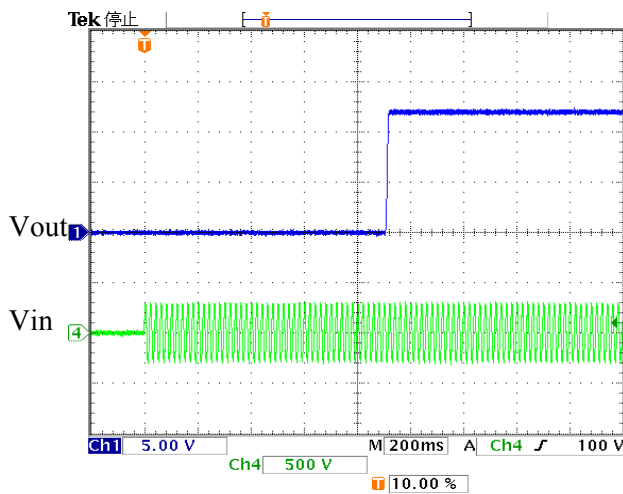
Ta : 25°C



Input Voltage : 200 VAC  
Output Current : 100 %

Vin : 500 VAC/DIV  
Vout : 5 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 928 ms



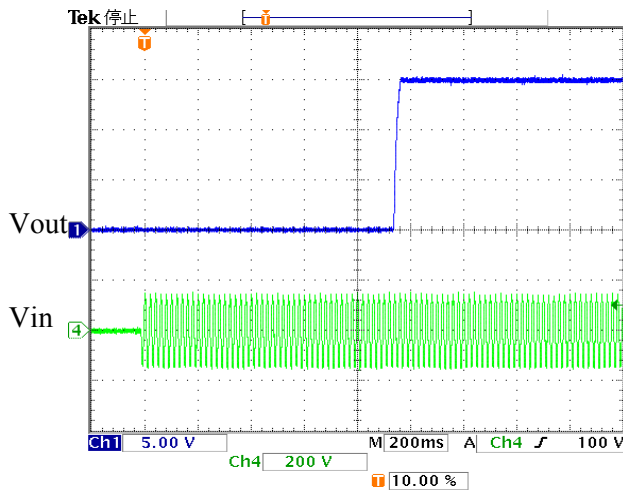
Input Voltage : 200 VAC  
Output Current : 0 %

Vin : 500 VAC/DIV  
Vout : 5 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 916 ms

Output Rise Waveform and Start Time

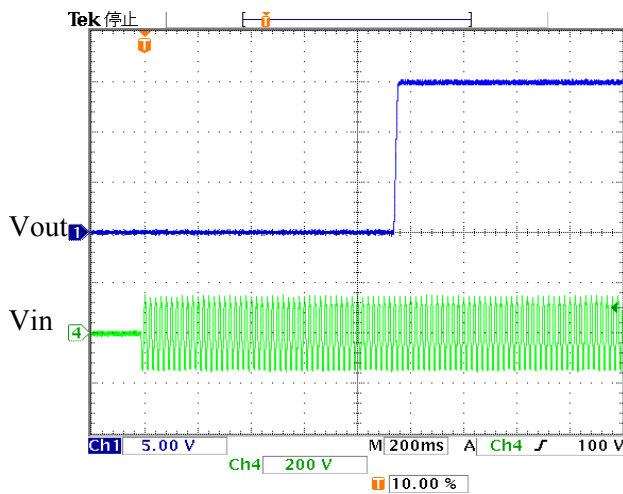
Ta : 25°C



Input Voltage : 100 VAC  
Output Current : 100 %

Vin : 200 VAC/DIV  
Vout : 5 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 964 ms



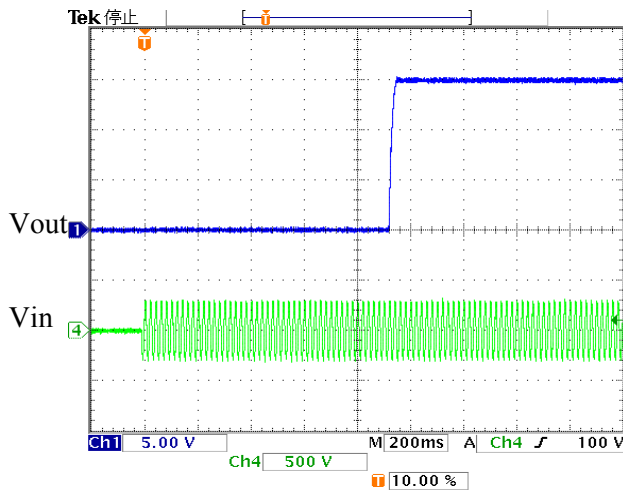
Input Voltage : 100 VAC  
Output Current : 0 %

Vin : 200 VAC/DIV  
Vout : 5 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 952 ms

Output Rise Waveform and Start Time

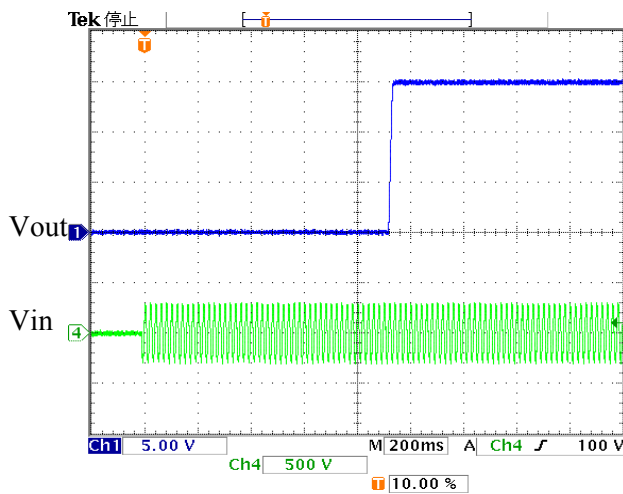
Ta : 25°C



Input Voltage : 200 VAC  
Output Current : 100 %

Vin : 500 VAC/DIV  
Vout : 5 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 948 ms



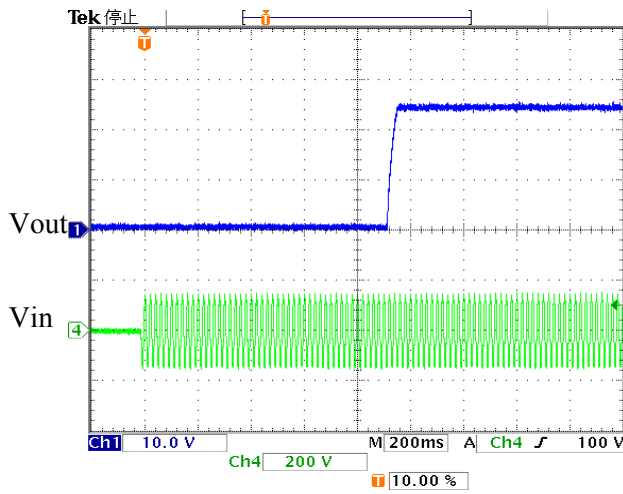
Input Voltage : 200 VAC  
Output Current : 0 %

Vin : 500 VAC/DIV  
Vout : 5 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 932 ms

Output Rise Waveform and Start Time

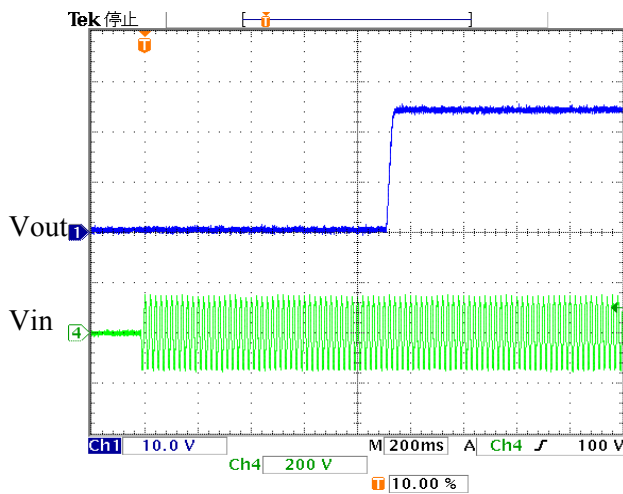
Ta : 25°C



Input Voltage : 100 VAC  
Output Current : 100 %

Vin : 200 VAC/DIV  
Vout : 10 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 948 ms



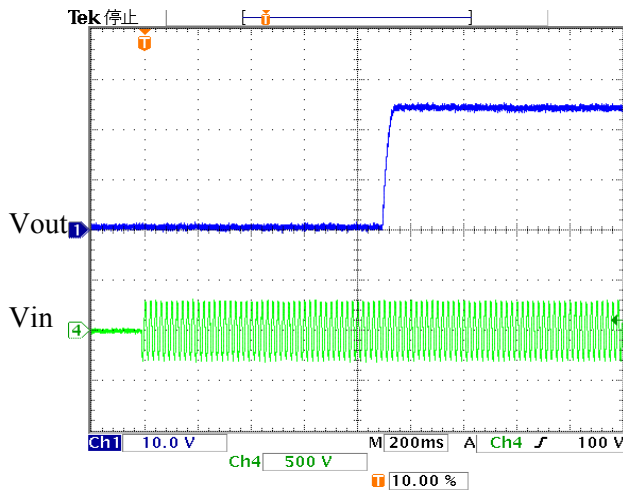
Input Voltage : 100 VAC  
Output Current : 0 %

Vin : 200 VAC/DIV  
Vout : 10 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 940 ms

Output Rise Waveform and Start Time

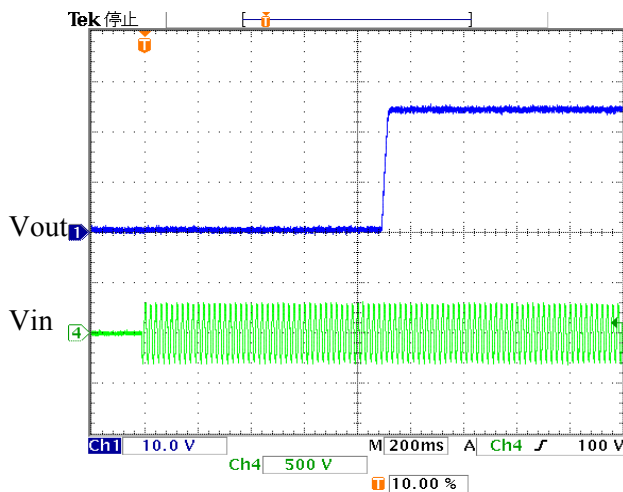
Ta : 25°C



Input Voltage : 200 VAC  
Output Current : 100 %

Vin : 500 VAC/DIV  
Vout : 10 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 928 ms



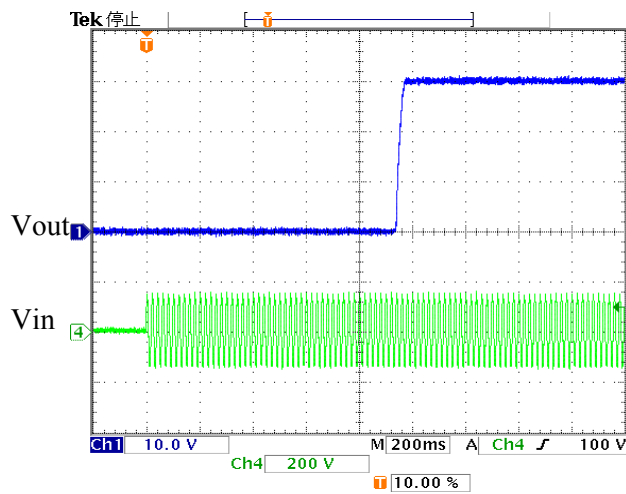
Input Voltage : 200 VAC  
Output Current : 0 %

Vin : 500 VAC/DIV  
Vout : 10 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 916 ms

Output Rise Waveform and Start Time

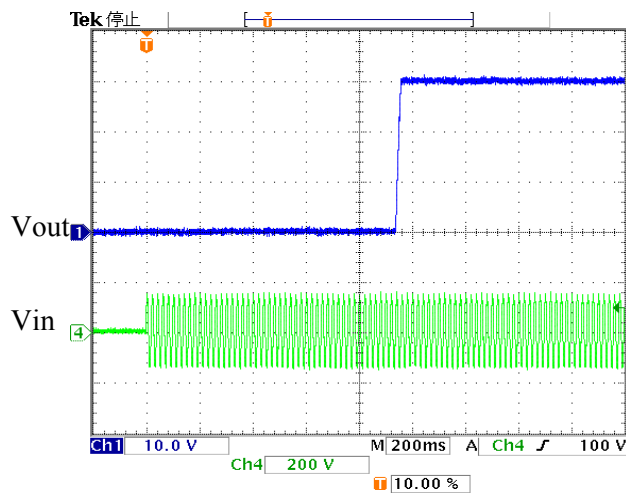
Ta : 25°C



Input Voltage : 100 VAC  
Output Current : 100 %

Vin : 200 VAC/DIV  
Vout : 10 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 984 ms



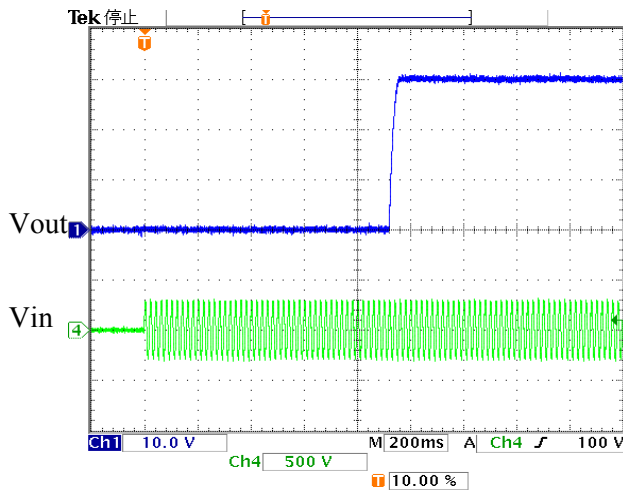
Input Voltage : 100 VAC  
Output Current : 0 %

Vin : 200 VAC/DIV  
Vout : 10 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 968 ms

Output Rise Waveform and Start Time

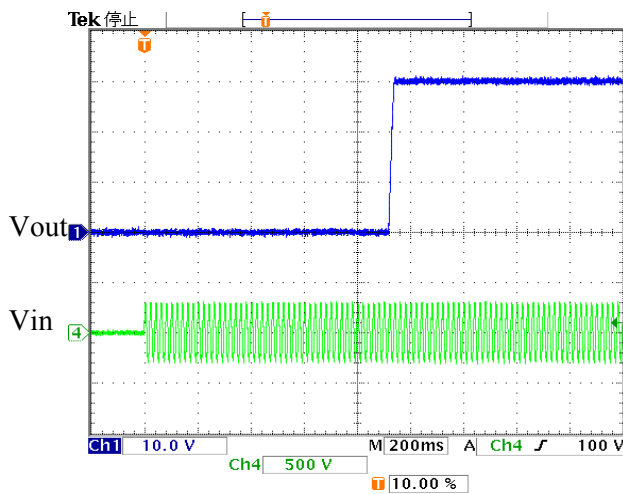
Ta : 25°C



Input Voltage : 200 VAC  
Output Current : 100 %

Vin : 500 VAC/DIV  
Vout : 10 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 972 ms



Input Voltage : 200 VAC  
Output Current : 0 %

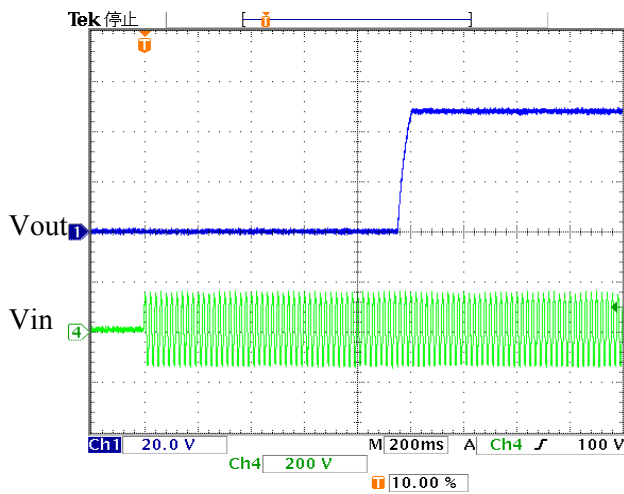
Vin : 500 VAC/DIV  
Vout : 10 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 948 ms



Output Rise Waveform and Start Time

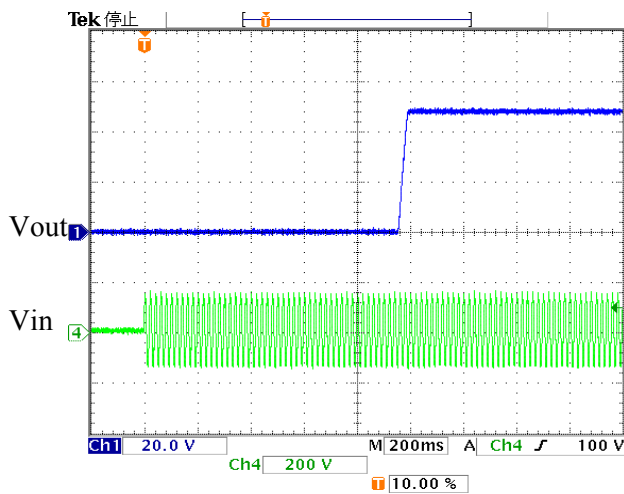
Ta : 25°C



Input Voltage : 100 VAC  
Output Current : 100 %

Vin : 200 VAC/DIV  
Vout : 20 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 1000 ms



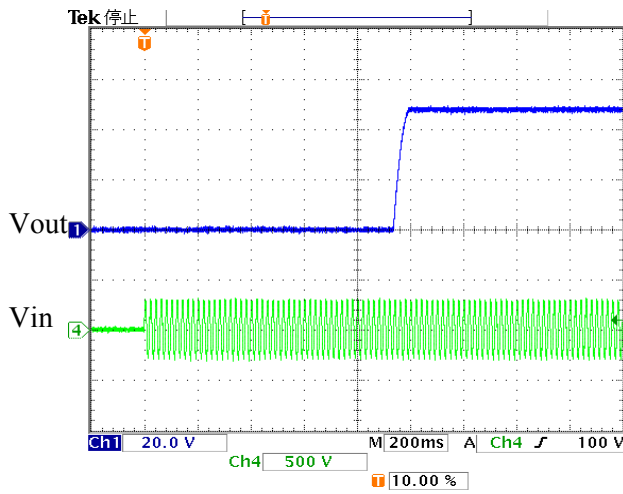
Input Voltage : 100 VAC  
Output Current : 0 %

Vin : 200 VAC/DIV  
Vout : 20 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 992 ms

Output Rise Waveform and Start Time

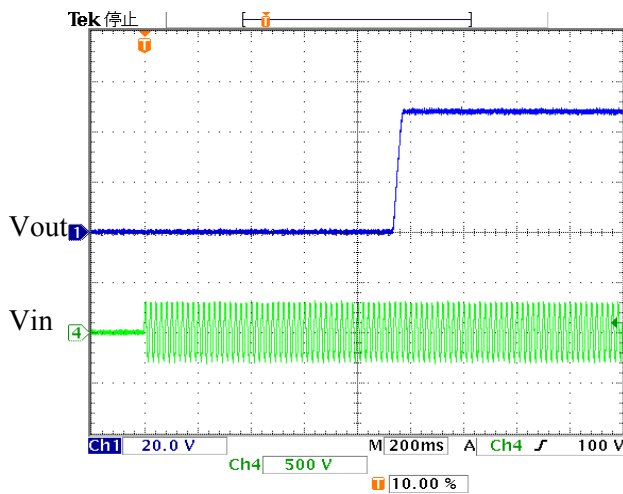
Ta : 25°C



Input Voltage : 200 VAC  
Output Current : 100 %

Vin : 500 VAC/DIV  
Vout : 20 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 1000 ms



Input Voltage : 200 VAC  
Output Current : 0 %

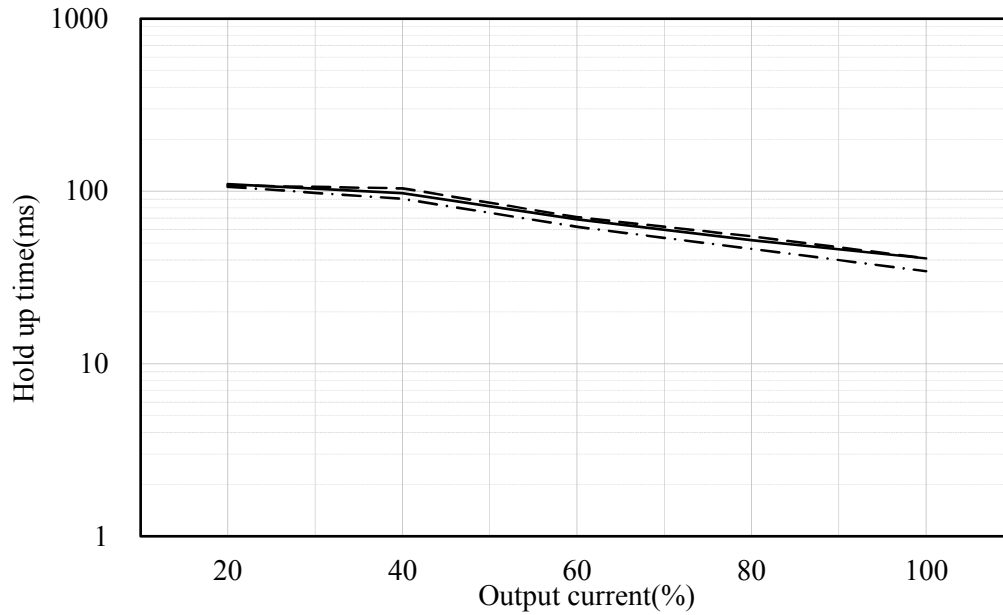
Vin : 500 VAC/DIV  
Vout : 20 VDC/DIV  
TIME : 200 ms/DIV

Start Time : 968 ms

Hold up time characteristics

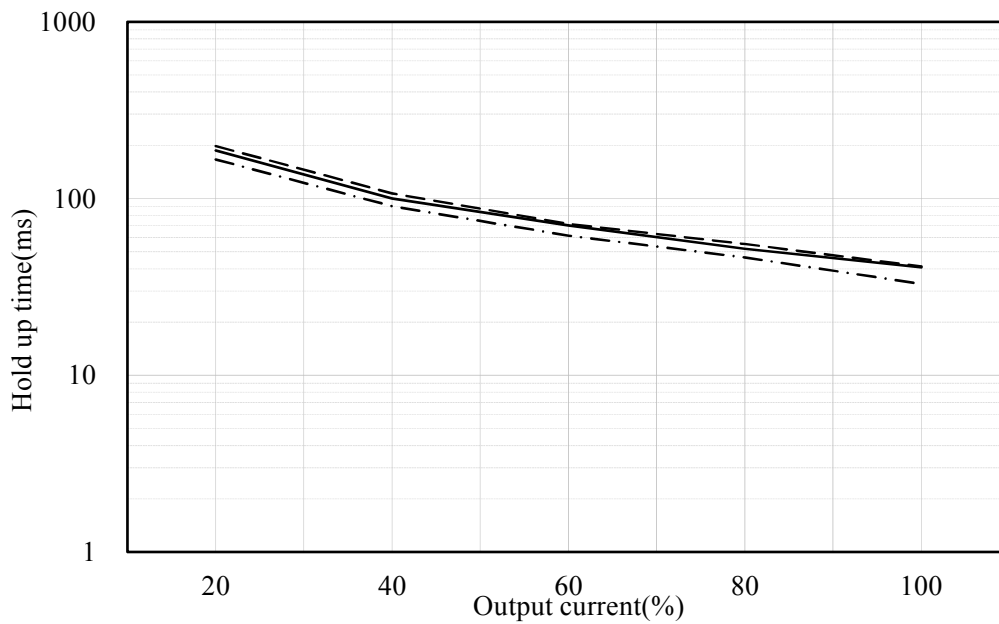
Input Voltage : 100 VAC

conditions Ta : 25°C ———  
: -10°C - · - · - · -  
: 60°C - - - - -

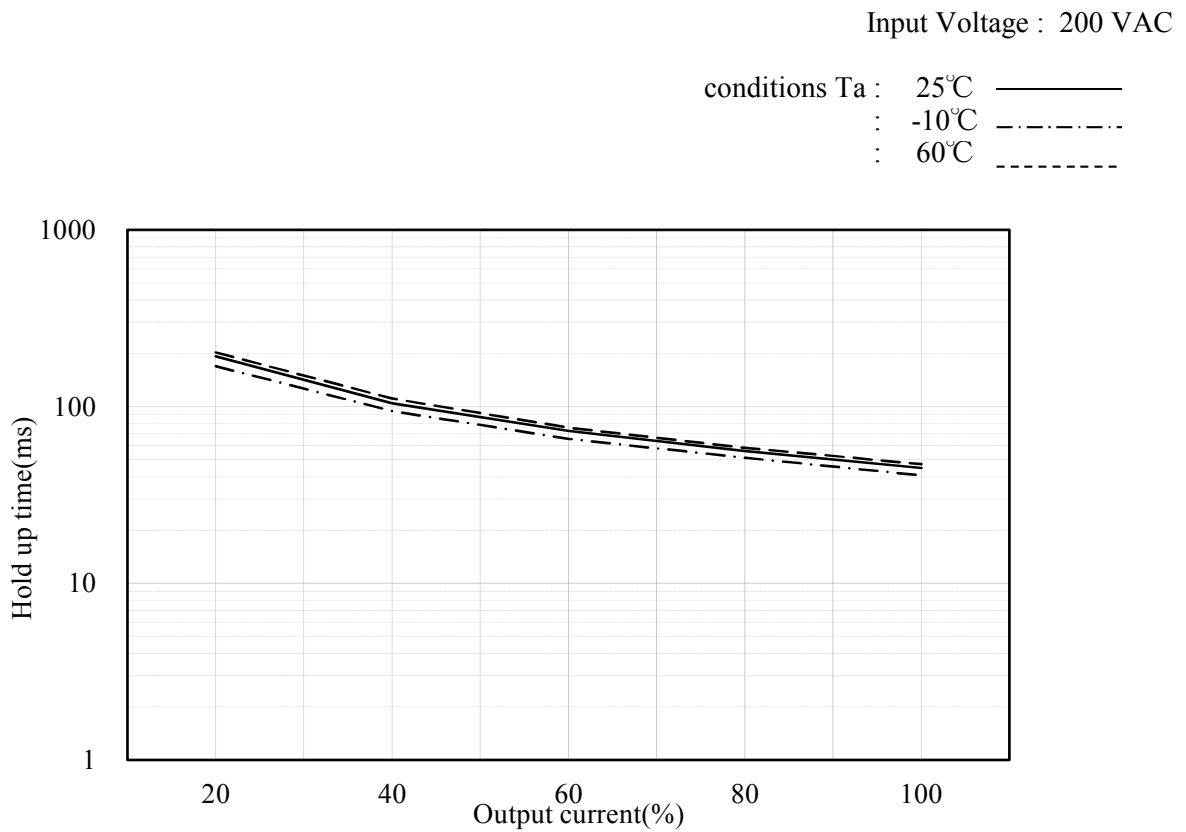
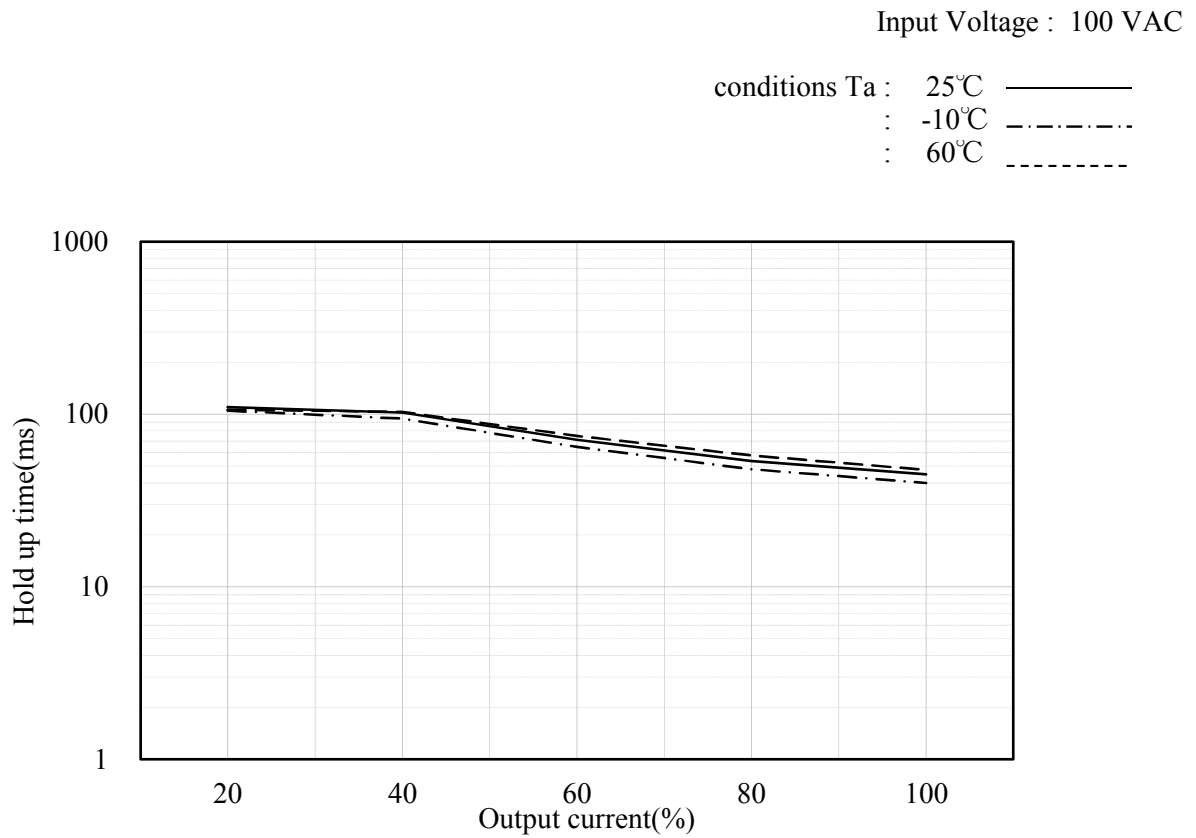


Input Voltage : 200 VAC

conditions Ta : 25°C ———  
: -10°C - · - · - · -  
: 60°C - - - - -



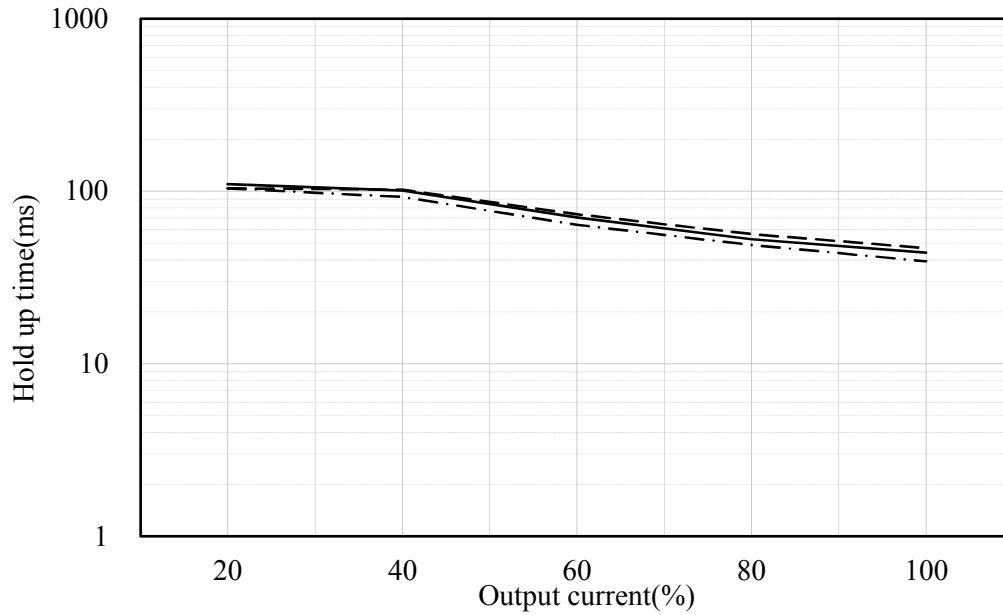
Hold up time characteristics



Hold up time characteristics

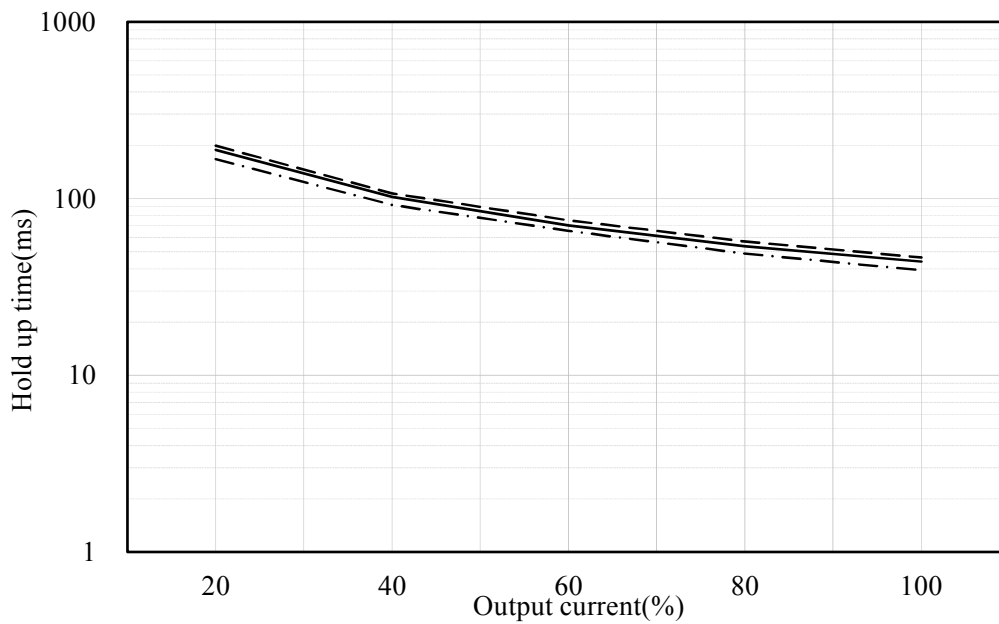
Input Voltage : 100 VAC

conditions Ta : 25°C ———  
: -10°C - - - - -  
: 60°C - - - - -

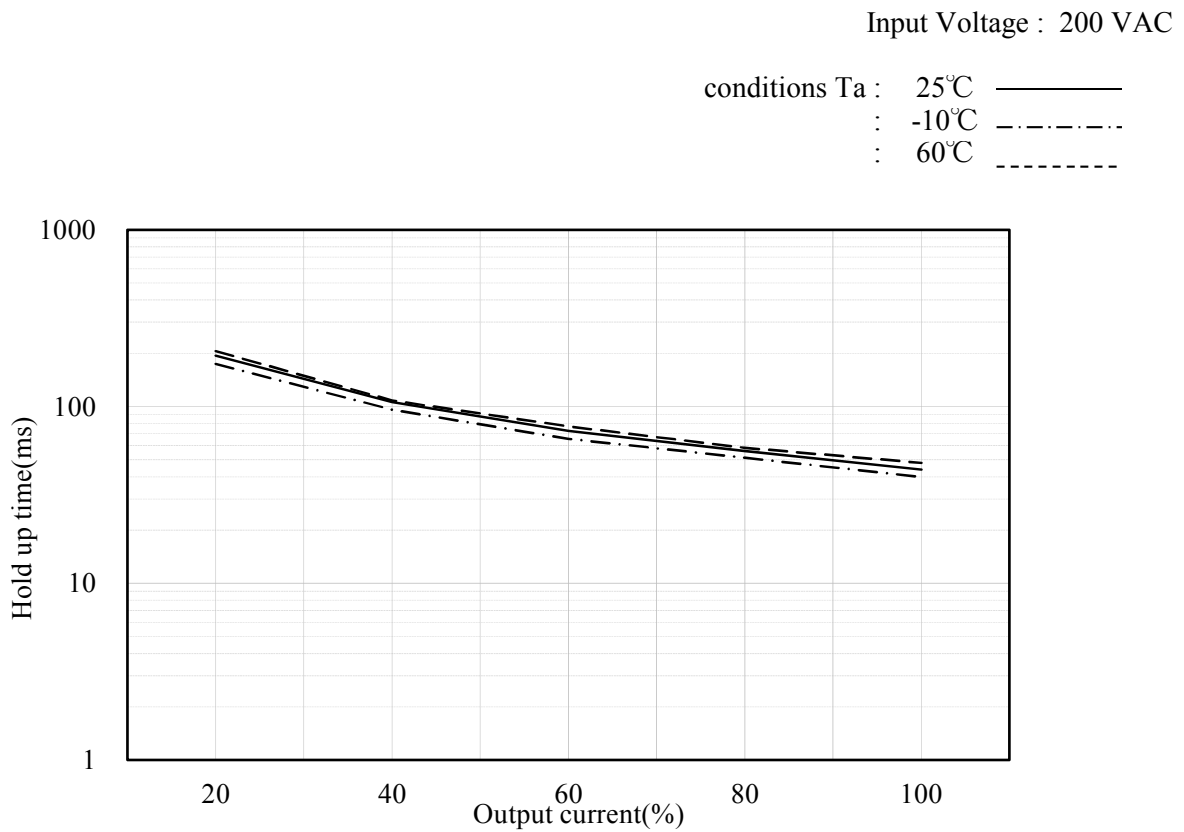
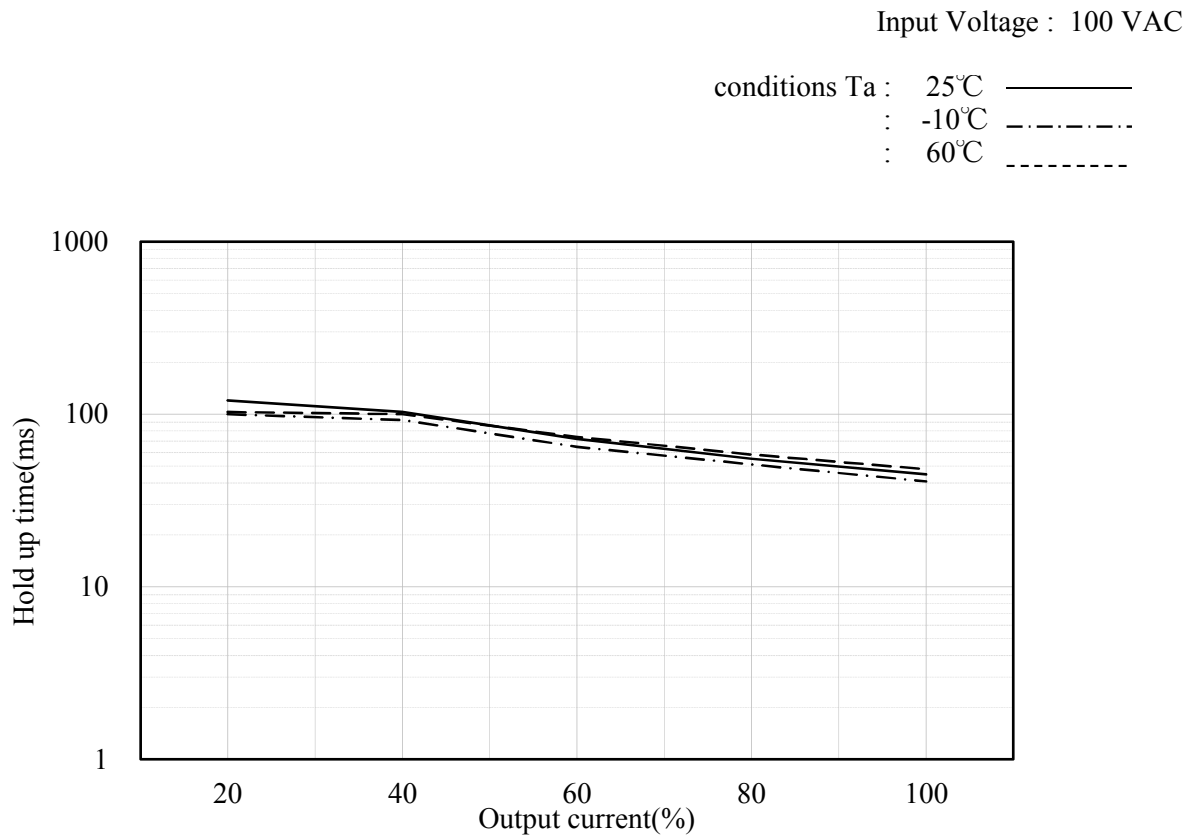


Input Voltage : 200 VAC

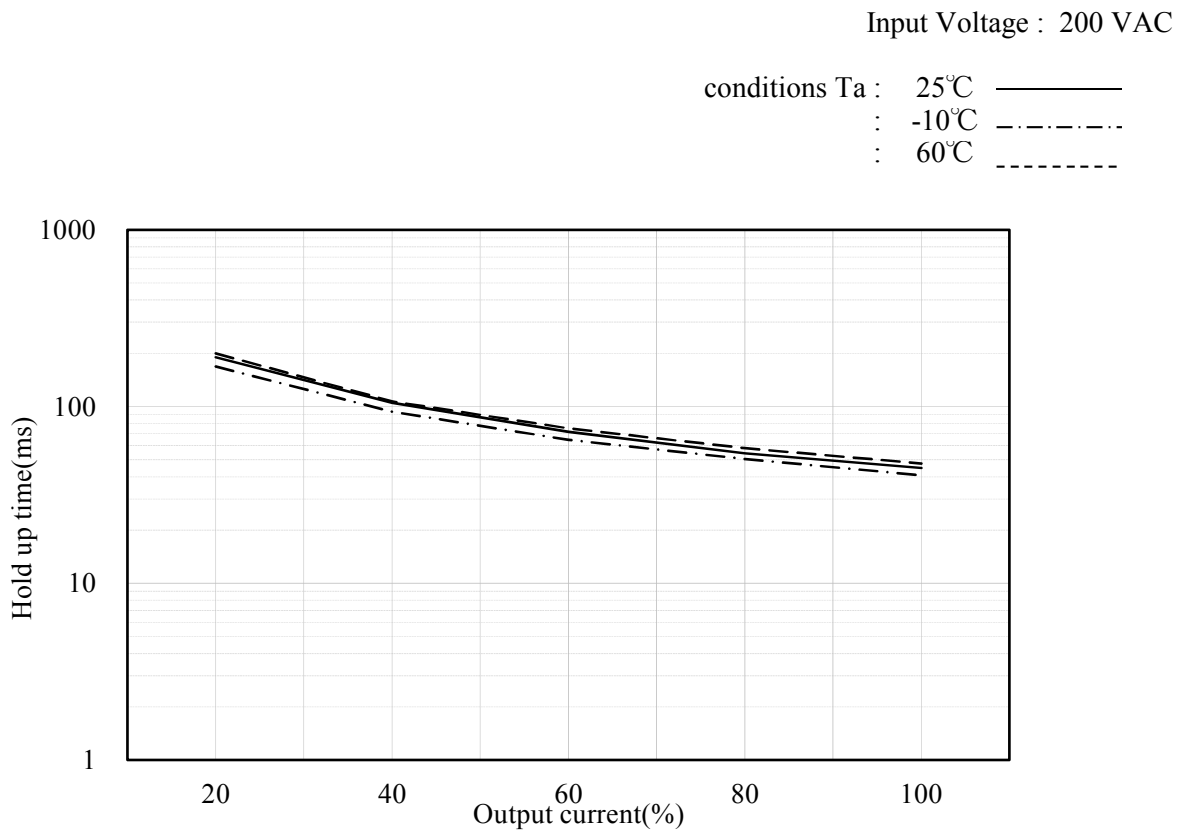
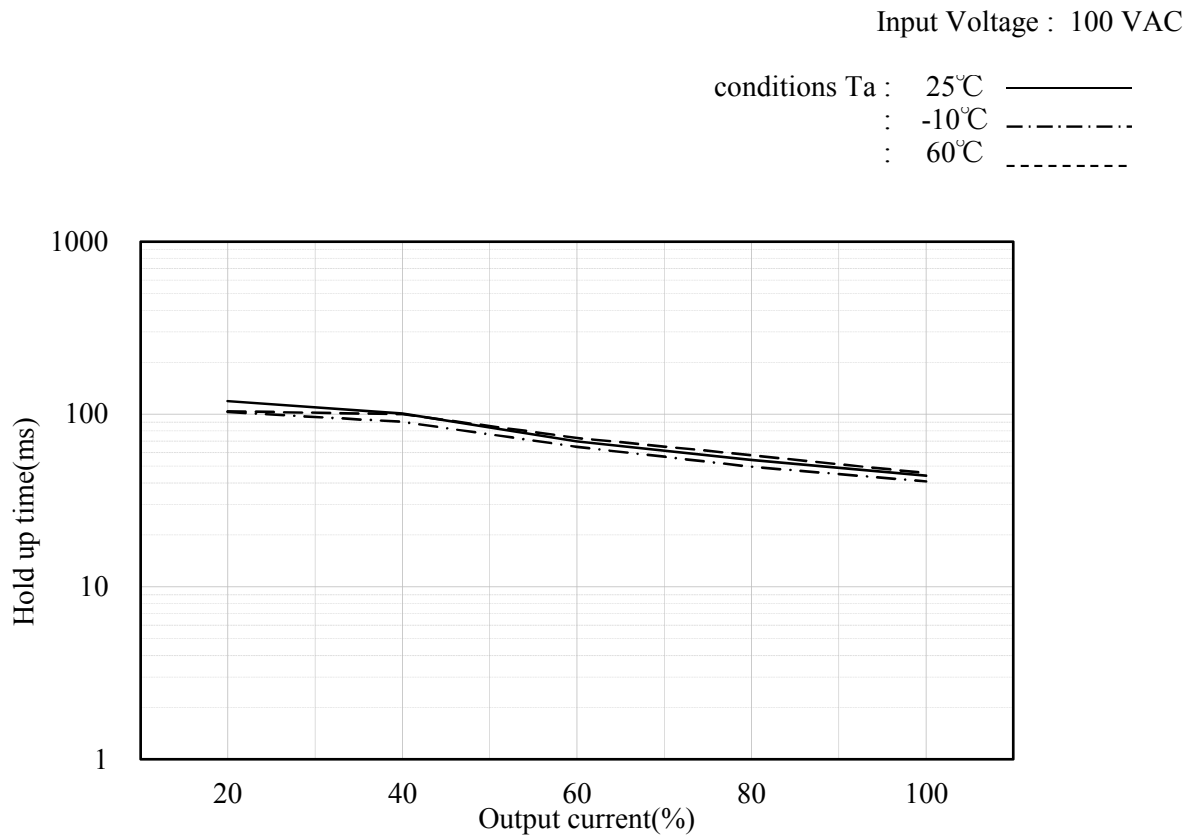
conditions Ta : 25°C ———  
: -10°C - - - - -  
: 60°C - - - - -



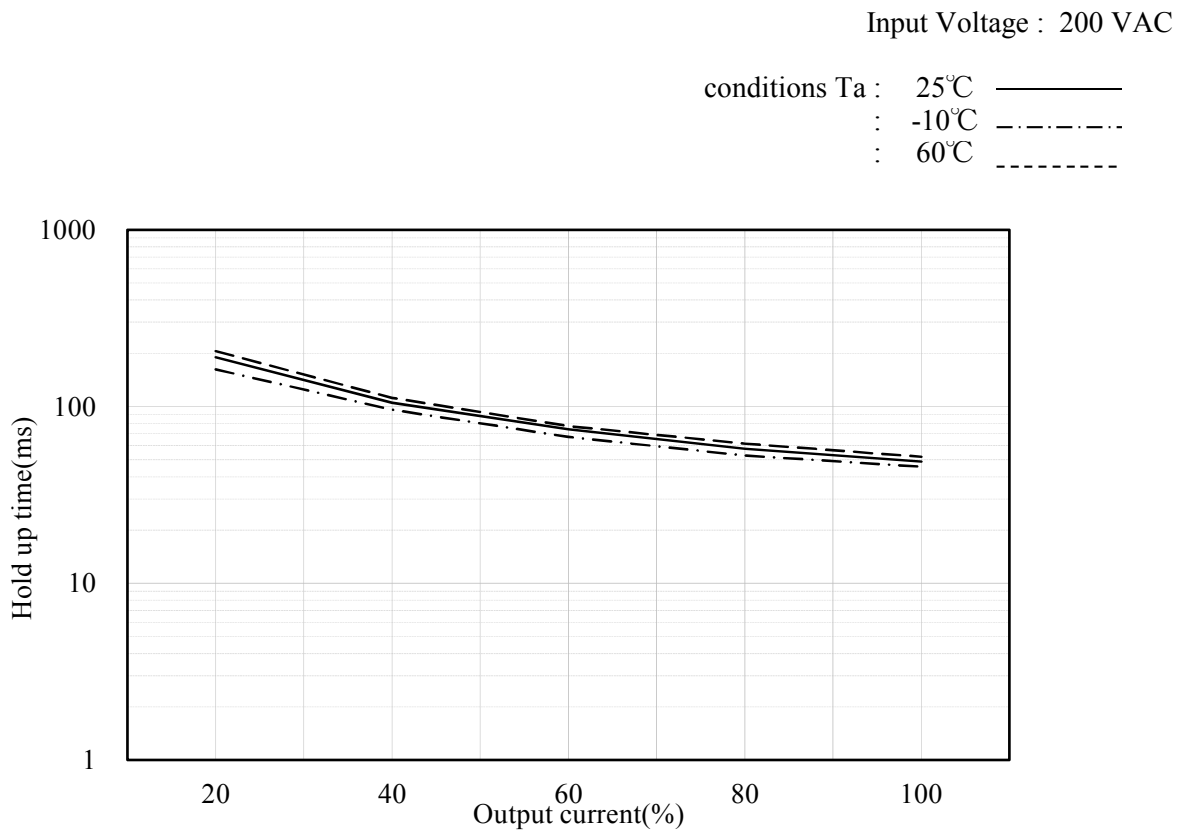
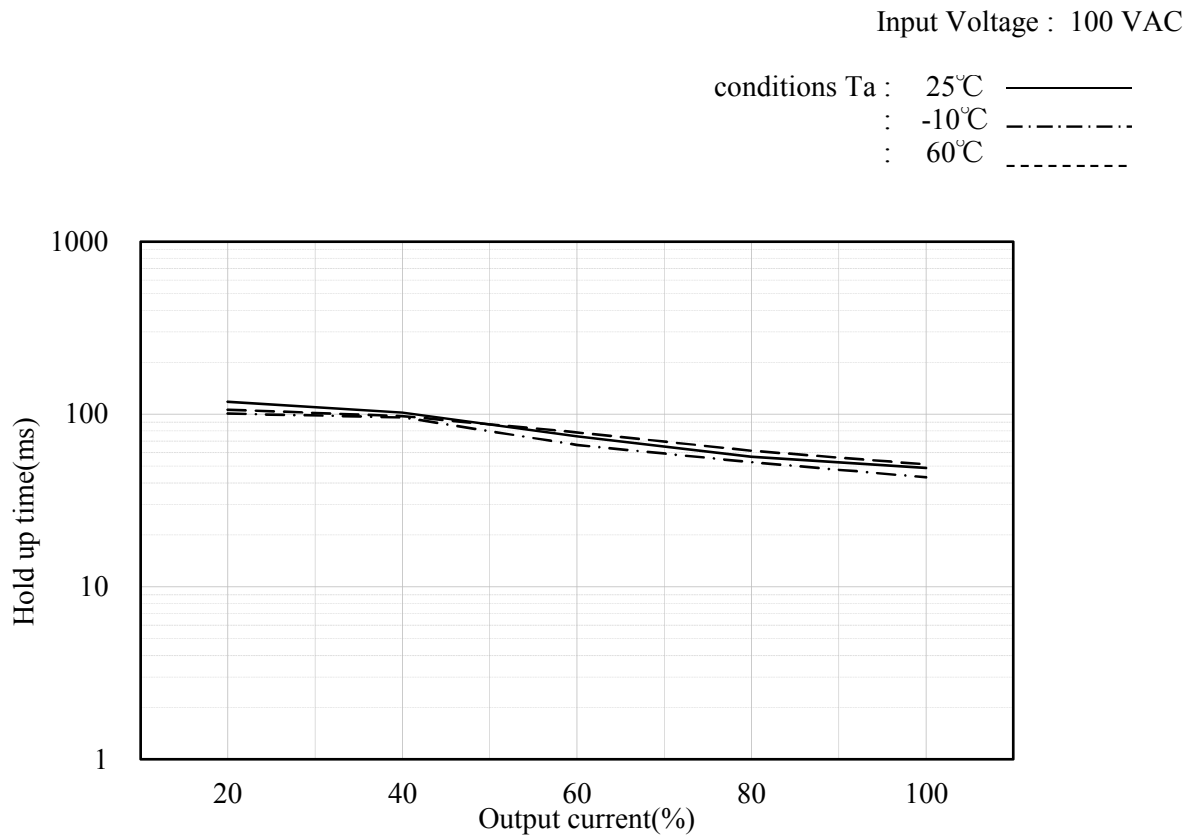
Hold up time characteristics



Hold up time characteristics



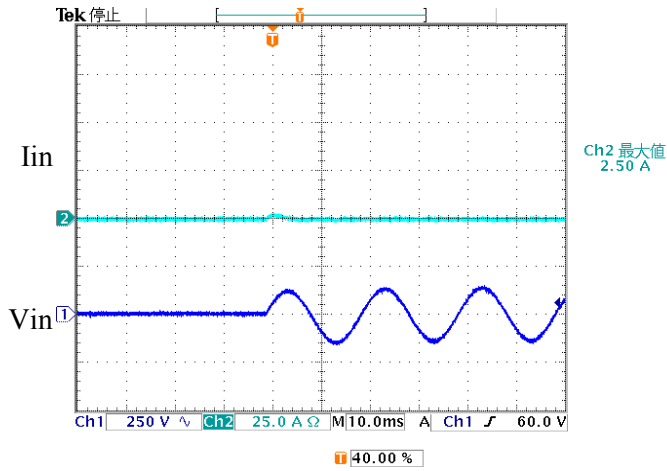
Hold up time characteristics





Inrush Current Characteristics

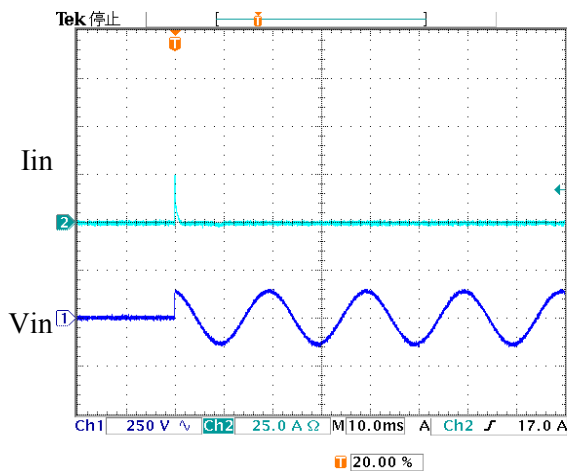
Ta : 25°C



Input Voltage : 100 VAC  
 Output Current : 100 %  
 Switch on phase angle :  $\phi=0^\circ$

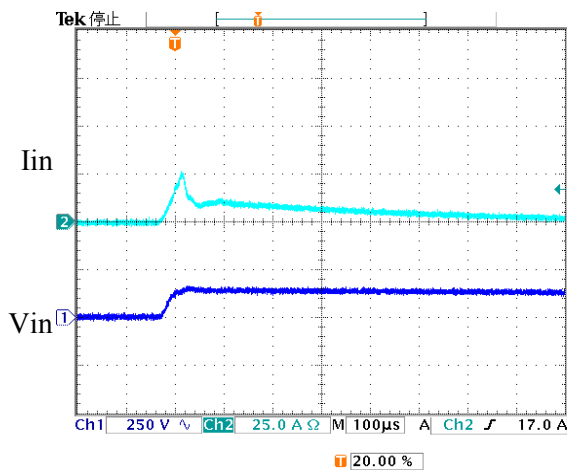
Iin : 25 A/DIV  
 Vin : 250 VAC/DIV  
 TIME : 10 ms/DIV

I<sub>max</sub> : 2.5 A



Input Voltage : 100 VAC  
 Output Current : 100 %  
 Switch on phase angle :  $\phi=90^\circ$

Iin : 25 A/DIV  
 Vin : 250 VAC/DIV  
 TIME : 10 ms/DIV

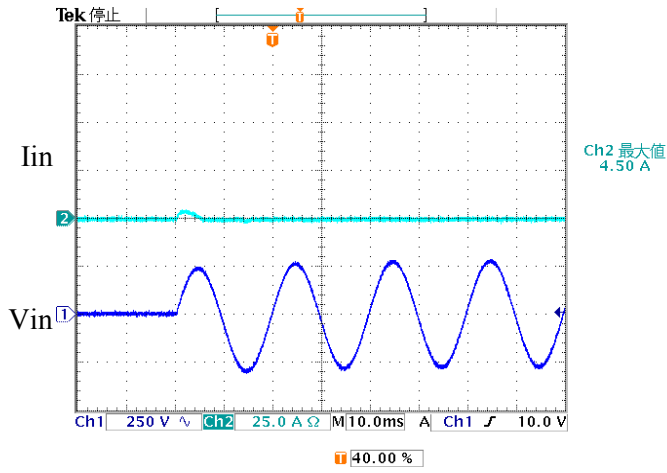


Input Voltage : 100 VAC  
 Output Current : 100 %  
 Switch on phase angle :  $\phi=90^\circ$

Iin : 25 A/DIV  
 Vin : 250 VAC/DIV  
 TIME : 100 µs/DIV

Inrush Current Characteristics

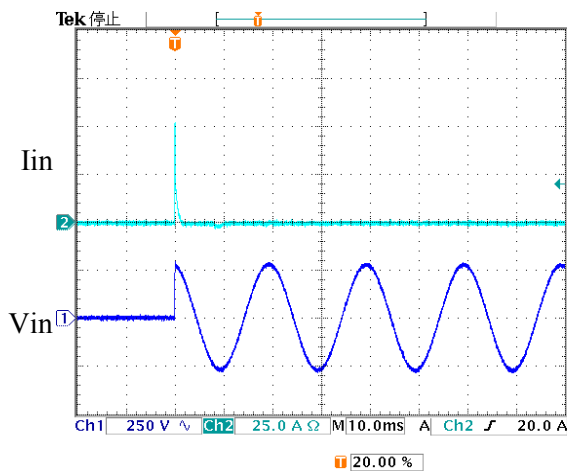
Ta : 25°C



Input Voltage : 200 VAC  
Output Current : 100 %  
Switch on phase angle :  $\phi=0^\circ$

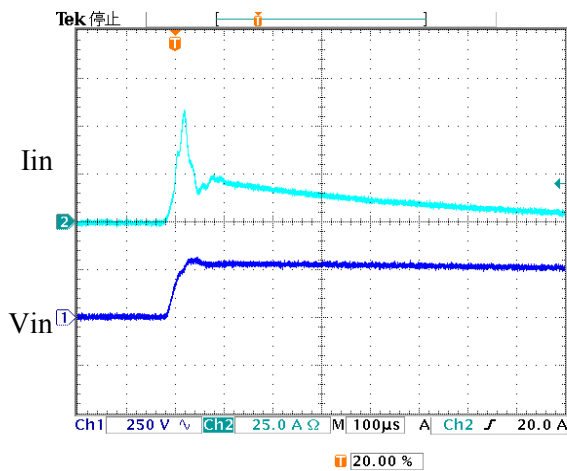
Iin : 25 A/DIV  
Vin : 250 VAC/DIV  
TIME : 10 ms/DIV

I<sub>max</sub> : 4.5 A



Input Voltage : 200 VAC  
Output Current : 100 %  
Switch on phase angle :  $\phi=90^\circ$

Iin : 25 A/DIV  
Vin : 250 VAC/DIV  
TIME : 10 ms/DIV

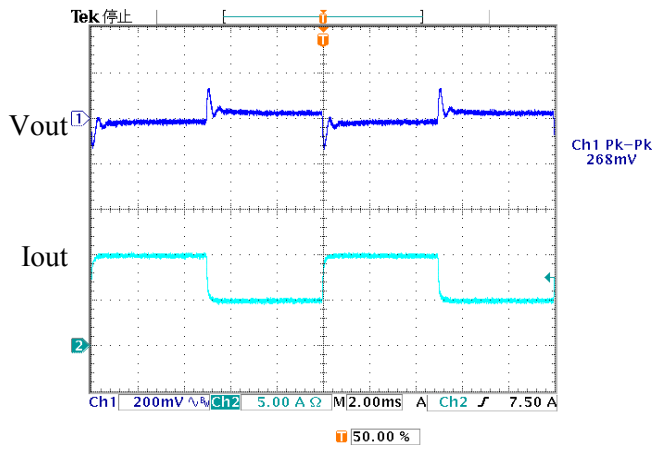


Input Voltage : 200 VAC  
Output Current : 100 %  
Switch on phase angle :  $\phi=90^\circ$

Iin : 25 A/DIV  
Vin : 250 VAC/DIV  
TIME : 100 μs/DIV

Dynamic Load Response Characteristics

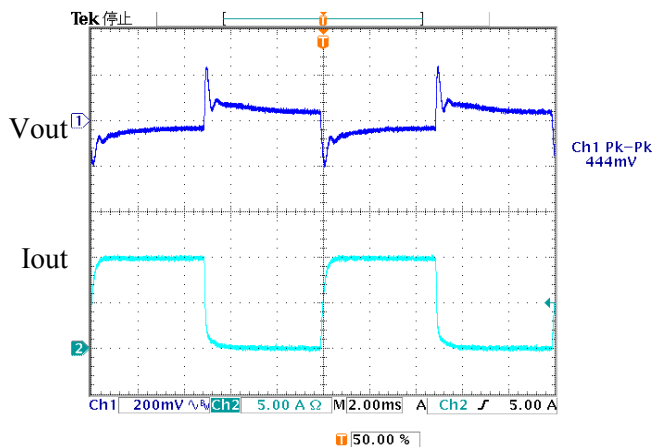
Ta : 25°C



Input Voltage : 100 VAC  
Output Current : 50 ⇔ 100 %

Vout : 200 mVAC/DIV  
Iout : 5.0 A/DIV  
TIME : 2 ms/DIV

Vp-p : 268 mV



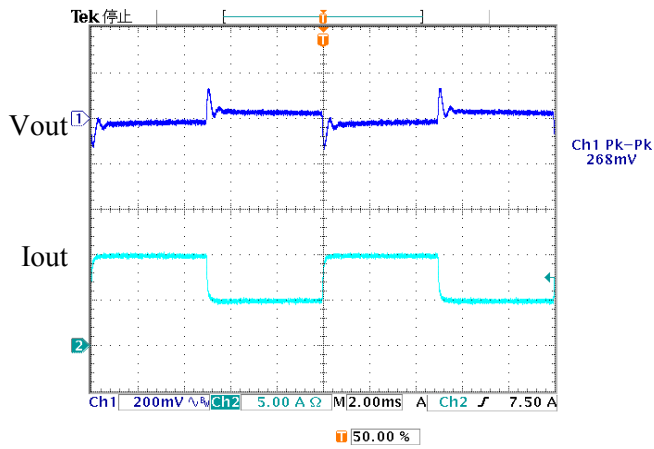
Input Voltage : 100 VAC  
Output Current : 0 ⇔ 100 %

Vout : 200 mVAC/DIV  
Iout : 5.0 A/DIV  
TIME : 2 ms/DIV

Vp-p : 444 mV

Dynamic Load Response Characteristics

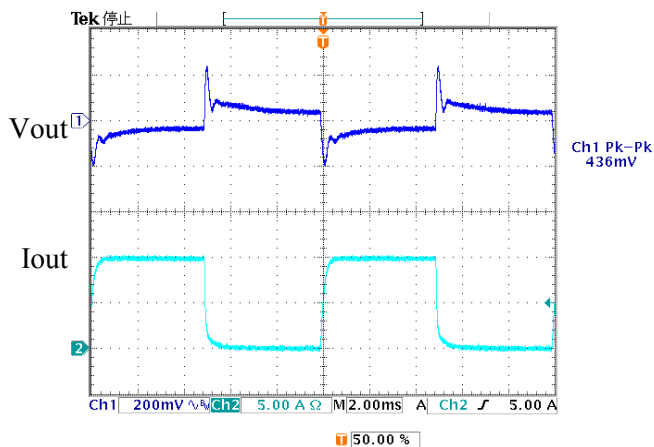
Ta : 25°C



Input Voltage : 200 VAC  
Output Current : 50 ⇔ 100 %

Vout : 200 mVAC/DIV  
Iout : 5.0 A/DIV  
TIME : 2 ms/DIV

Vp-p : 268 mV



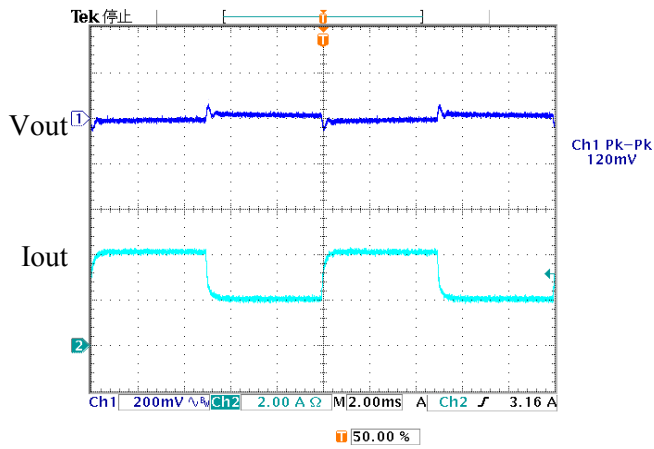
Input Voltage : 200 VAC  
Output Current : 0 ⇔ 100 %

Vout : 200 mVAC/DIV  
Iout : 5.0 A/DIV  
TIME : 2 ms/DIV

Vp-p : 436 mV

Dynamic Load Response Characteristics

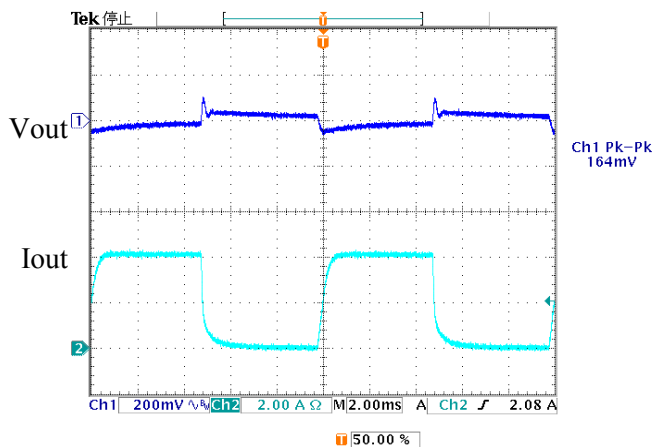
Ta : 25°C



Input Voltage : 100 VAC  
Output Current : 50 ⇔ 100 %

Vout : 200 mVAC/DIV  
Iout : 2.0 A/DIV  
TIME : 2 ms/DIV

Vp-p : 120 mV



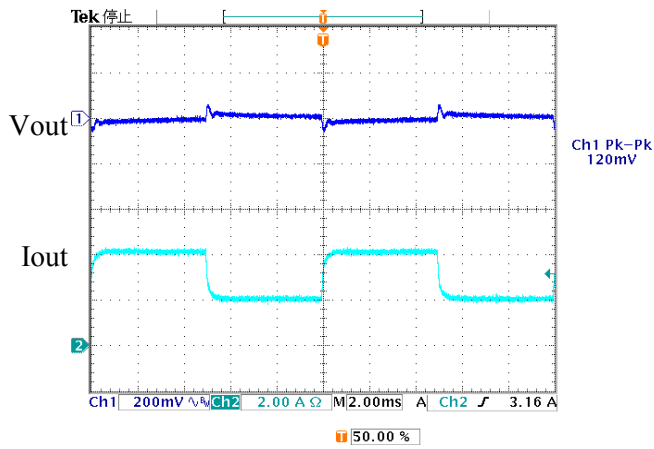
Input Voltage : 100 VAC  
Output Current : 0 ⇔ 100 %

Vout : 200 mVAC/DIV  
Iout : 2.0 A/DIV  
TIME : 2 ms/DIV

Vp-p : 164 mV

Dynamic Load Response Characteristics

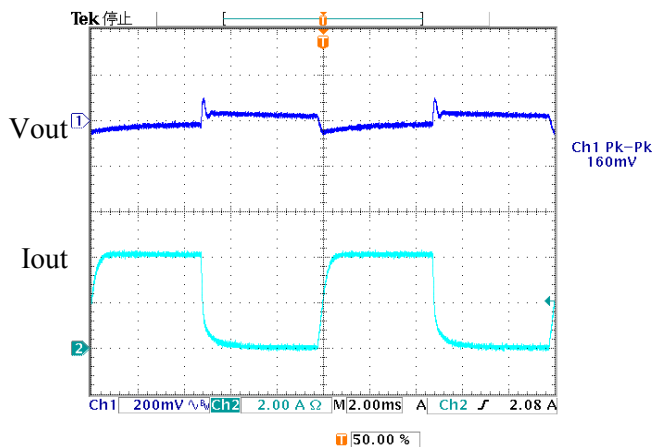
Ta : 25°C



Input Voltage : 200 VAC  
Output Current : 50 ⇔ 100 %

Vout : 200 mVAC/DIV  
Iout : 2.0 A/DIV  
TIME : 2 ms/DIV

Vp-p : 120 mV



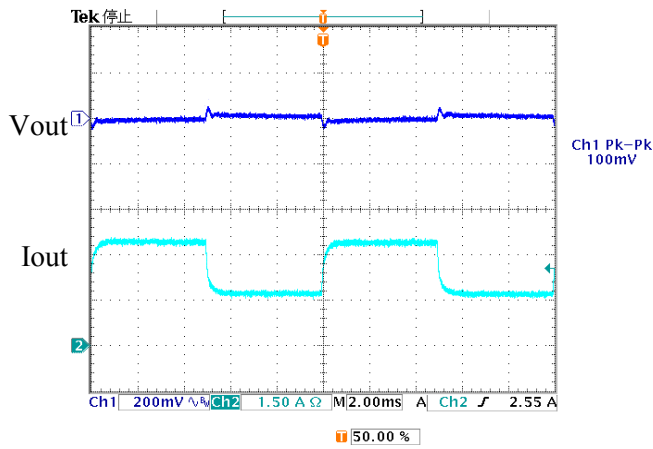
Input Voltage : 200 VAC  
Output Current : 0 ⇔ 100 %

Vout : 200 mVAC/DIV  
Iout : 2.0 A/DIV  
TIME : 2 ms/DIV

Vp-p : 160 mV

Dynamic Load Response Characteristics

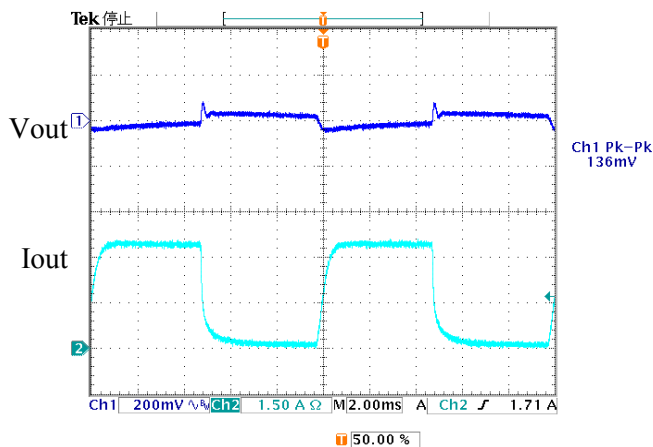
Ta : 25°C



Input Voltage : 100 VAC  
Output Current : 50 ⇔ 100 %

Vout : 200 mVAC/DIV  
Iout : 1.5 A/DIV  
TIME : 2 ms/DIV

Vp-p : 100 mV



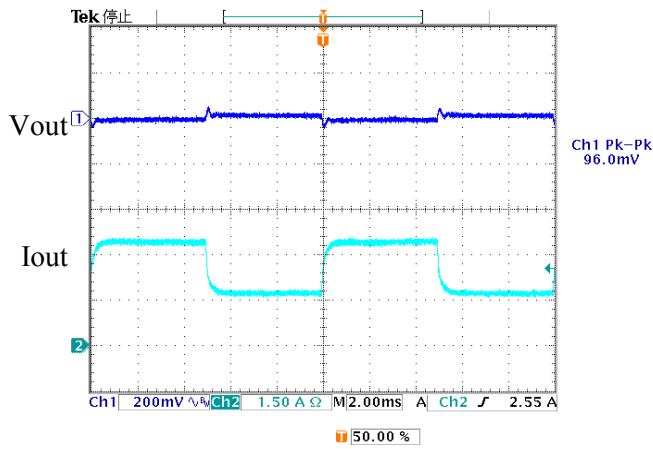
Input Voltage : 100 VAC  
Output Current : 0 ⇔ 100 %

Vout : 200 mVAC/DIV  
Iout : 1.5 A/DIV  
TIME : 2 ms/DIV

Vp-p : 136 mV

Dynamic Load Response Characteristics

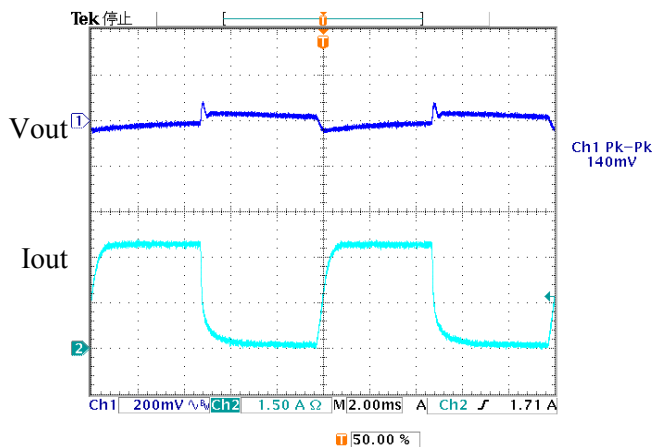
Ta : 25°C



Input Voltage : 200 VAC  
Output Current : 50 ⇔ 100 %

Vout : 200 mVAC/DIV  
Iout : 1.5 A/DIV  
TIME : 2 ms/DIV

Vp-p : 96 mV



Input Voltage : 200 VAC  
Output Current : 0 ⇔ 100 %

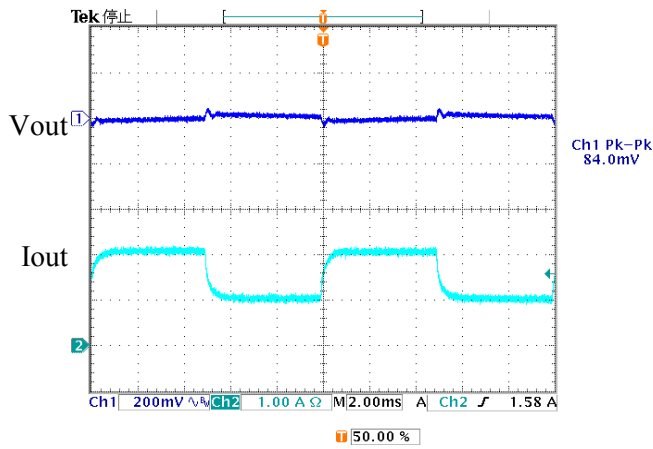
Vout : 200 mVAC/DIV  
Iout : 1.5 A/DIV  
TIME : 2 ms/DIV

Vp-p : 140 mV



Dynamic Load Response Characteristics

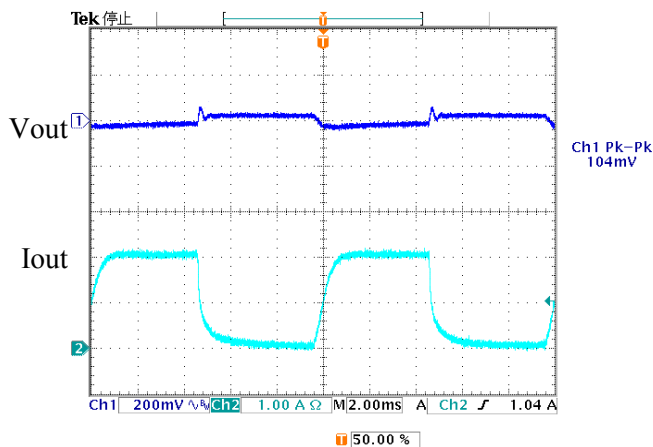
Ta : 25°C



Input Voltage : 100 VAC  
Output Current : 50 ⇔ 100 %

Vout : 200 mVAC/DIV  
Iout : 1.0 A/DIV  
TIME : 2 ms/DIV

Vp-p : 84 mV



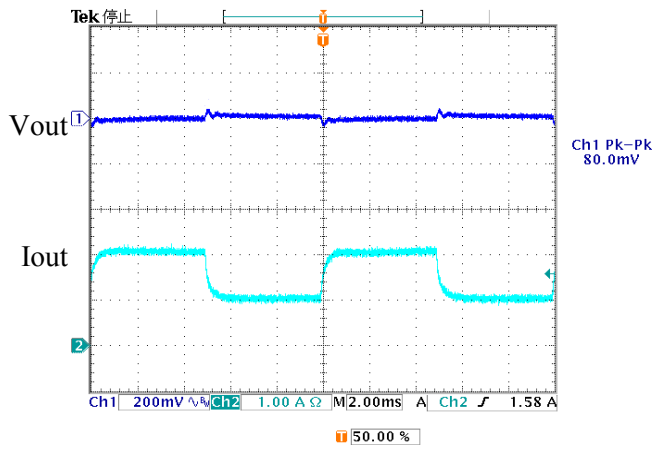
Input Voltage : 100 VAC  
Output Current : 0 ⇔ 100 %

Vout : 200 mVAC/DIV  
Iout : 1.0 A/DIV  
TIME : 2 ms/DIV

Vp-p : 104 mV

Dynamic Load Response Characteristics

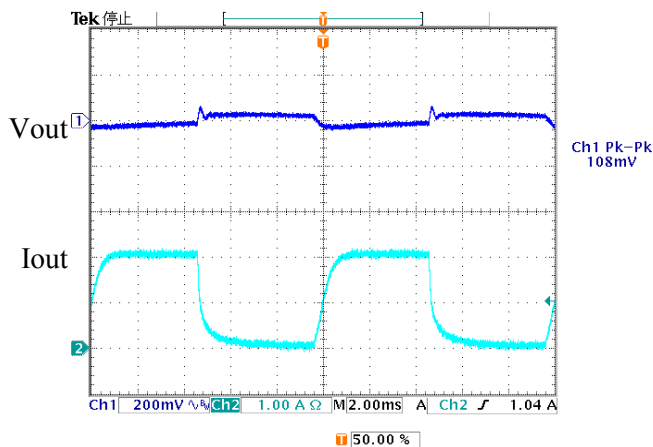
Ta : 25°C



Input Voltage : 200 VAC  
Output Current : 50 ⇔ 100 %

Vout : 200 mVAC/DIV  
Iout : 1.0 A/DIV  
TIME : 2 ms/DIV

Vp-p : 80 mV



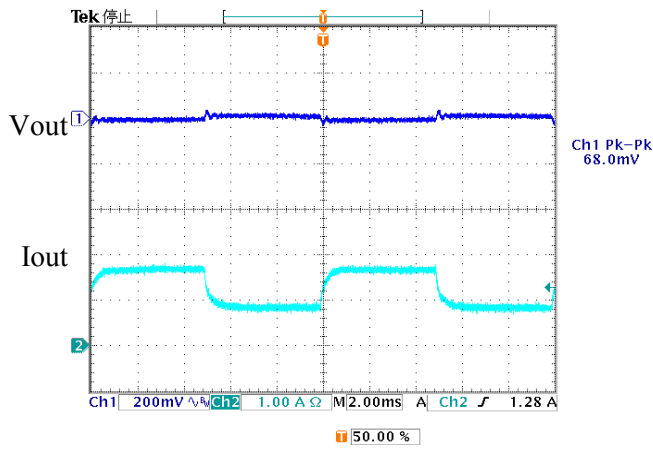
Input Voltage : 200 VAC  
Output Current : 0 ⇔ 100 %

Vout : 200 mVAC/DIV  
Iout : 1.0 A/DIV  
TIME : 2 ms/DIV

Vp-p : 108 mV

Dynamic Load Response Characteristics

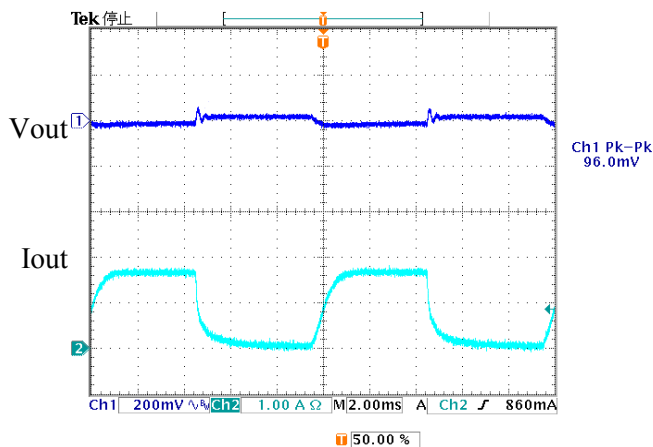
Ta : 25°C



Input Voltage : 100 VAC  
Output Current : 50 ⇔ 100 %

Vout : 200 mVAC/DIV  
Iout : 1.0 A/DIV  
TIME : 2 ms/DIV

Vp-p : 68 mV



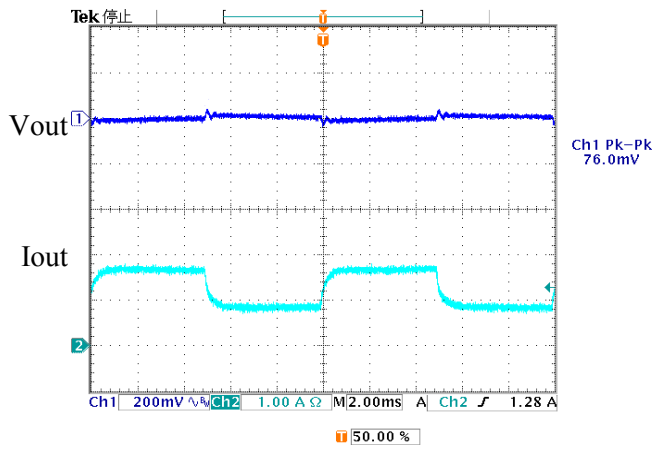
Input Voltage : 100 VAC  
Output Current : 0 ⇔ 100 %

Vout : 200 mVAC/DIV  
Iout : 1.0 A/DIV  
TIME : 2 ms/DIV

Vp-p : 96 mV

Dynamic Load Response Characteristics

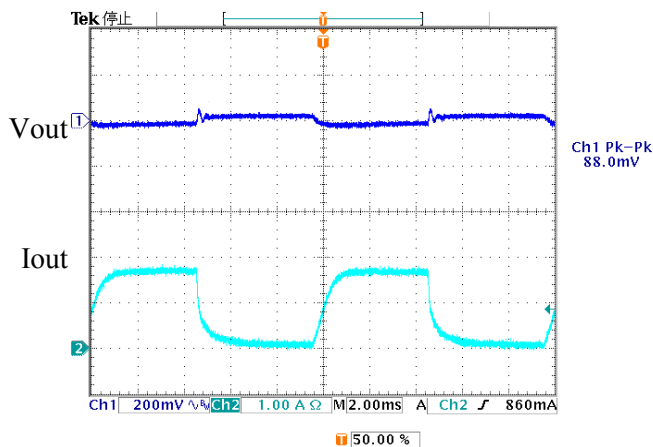
Ta : 25°C



Input Voltage : 200 VAC  
Output Current : 50 ⇔ 100 %

Vout : 200 mVAC/DIV  
Iout : 1.0 A/DIV  
TIME : 2 ms/DIV

Vp-p : 76 mV



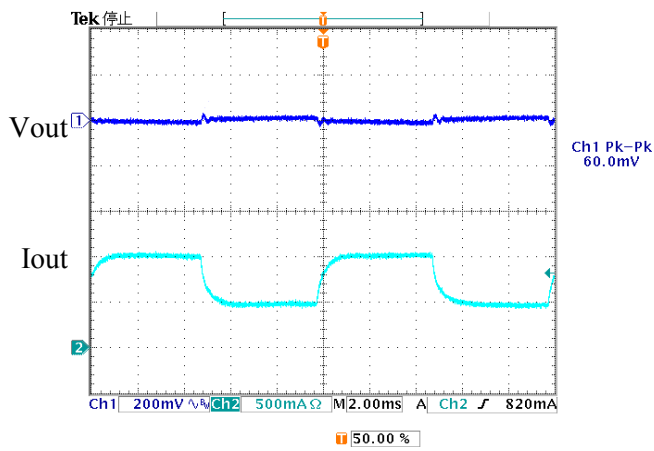
Input Voltage : 200 VAC  
Output Current : 0 ⇔ 100 %

Vout : 200 mVAC/DIV  
Iout : 1.0 A/DIV  
TIME : 2 ms/DIV

Vp-p : 88 mV

Dynamic Load Response Characteristics

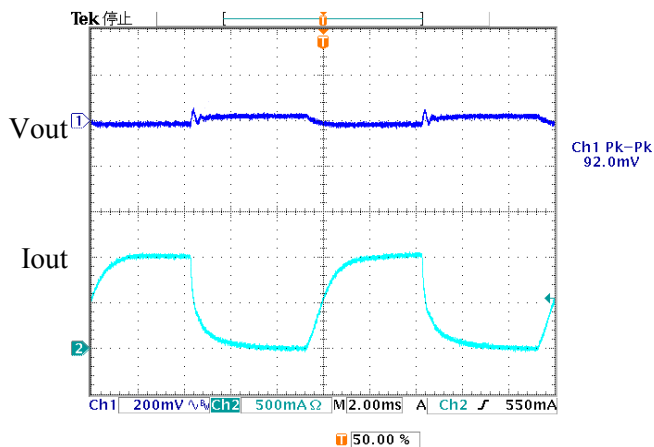
Ta : 25°C



Input Voltage : 100 VAC  
Output Current : 50 ⇔ 100 %

Vout : 200 mVAC/DIV  
Iout : 0.5 A/DIV  
TIME : 2 ms/DIV

Vp-p : 60 mV



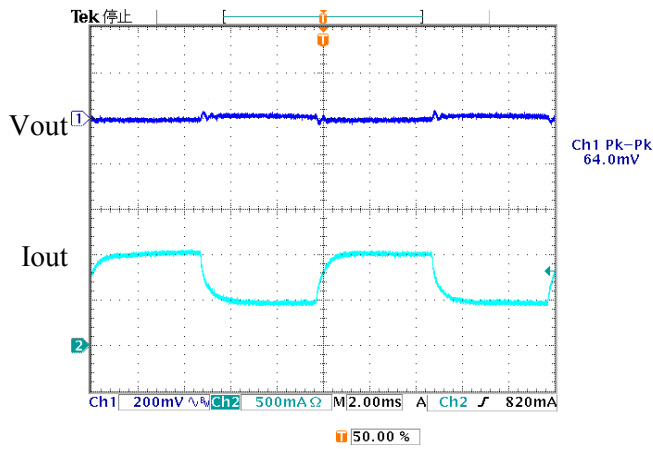
Input Voltage : 100 VAC  
Output Current : 0 ⇔ 100 %

Vout : 200 mVAC/DIV  
Iout : 0.5 A/DIV  
TIME : 2 ms/DIV

Vp-p : 92 mV

Dynamic Load Response Characteristics

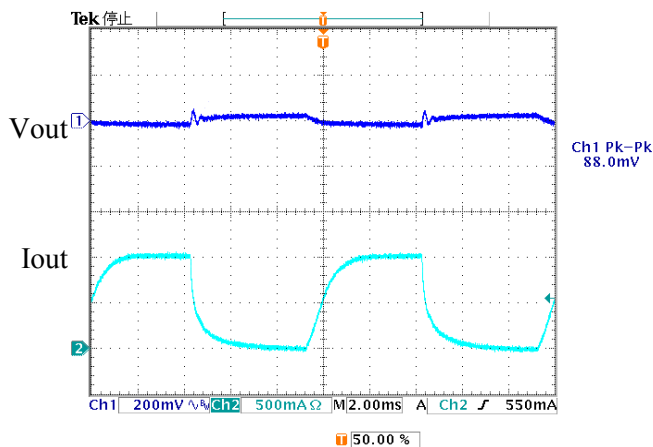
Ta : 25°C



Input Voltage : 200 VAC  
Output Current : 50 ⇔ 100 %

Vout : 200 mVAC/DIV  
Iout : 0.5 A/DIV  
TIME : 2 ms/DIV

Vp-p : 64 mV



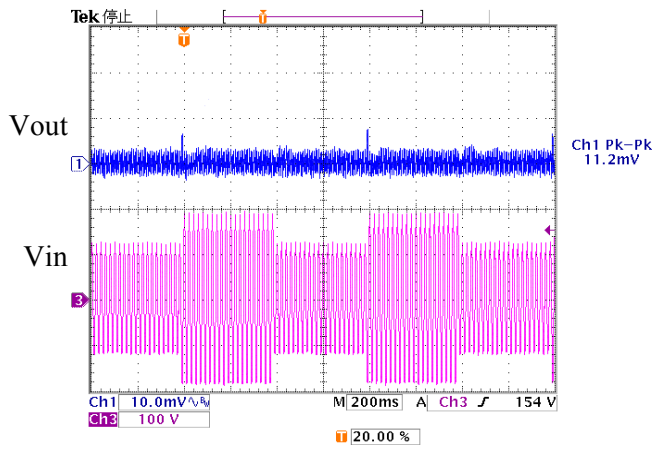
Input Voltage : 200 VAC  
Output Current : 0 ⇔ 100 %

Vout : 200 mVAC/DIV  
Iout : 0.5 A/DIV  
TIME : 2 ms/DIV

Vp-p : 88 mV

Dynamic Line Response Characteristics

Ta : 25°C

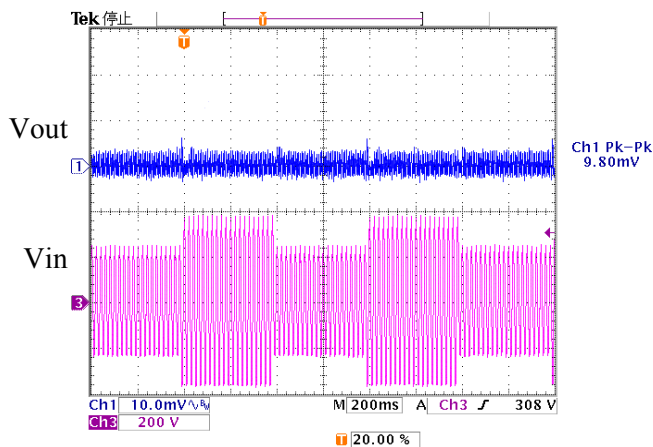


Input Voltage : 85 ⇔ 132 VAC  
Output Current : 100 %

Vin : 100 VAC/DIV  
Vout : 10 mVAC/DIV  
TIME : 200 ms/DIV

normal / event duration : 400 ms

Vp-p : 11.2 mV



Input Voltage : 170 ⇔ 264 VAC  
Output Current : 100 %

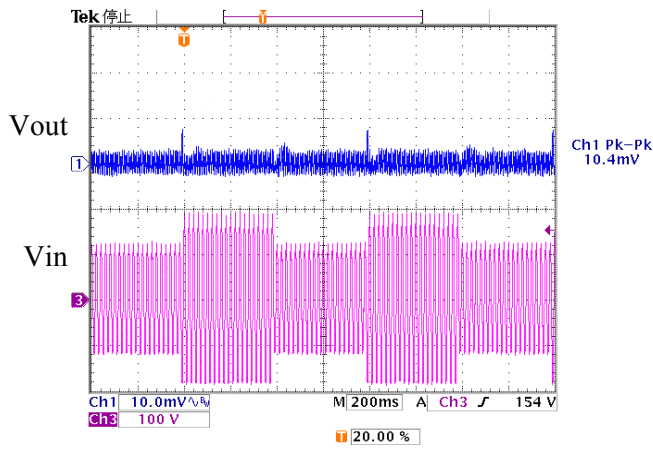
Vin : 200 VAC/DIV  
Vout : 10 mVAC/DIV  
TIME : 200 ms/DIV

normal / event duration : 400 ms

Vp-p : 9.8 mV

Dynamic Line Response Characteristics

Ta : 25°C

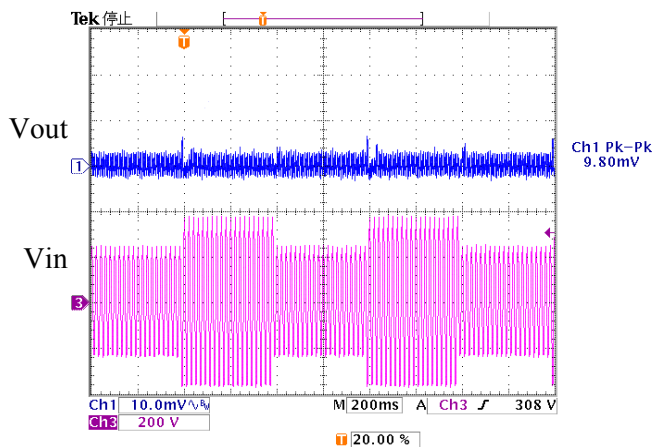


Input Voltage : 85 ⇔ 132 VAC  
Output Current : 100 %

Vin : 100 VAC/DIV  
Vout : 10 mVAC/DIV  
TIME : 200 ms/DIV

normal / event duration : 400 ms

Vp-p : 10.4 mV



Input Voltage : 170 ⇔ 264 VAC  
Output Current : 100 %

Vin : 200 VAC/DIV  
Vout : 10 mVAC/DIV  
TIME : 200 ms/DIV

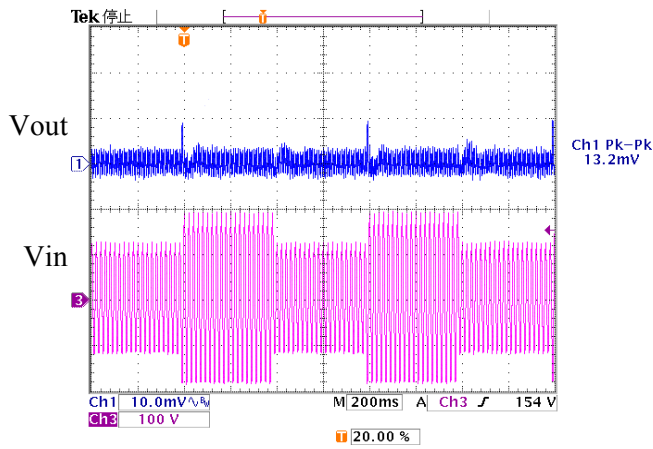
normal / event duration : 400 ms

Vp-p : 9.8 mV



Dynamic Line Response Characteristics

Ta : 25°C

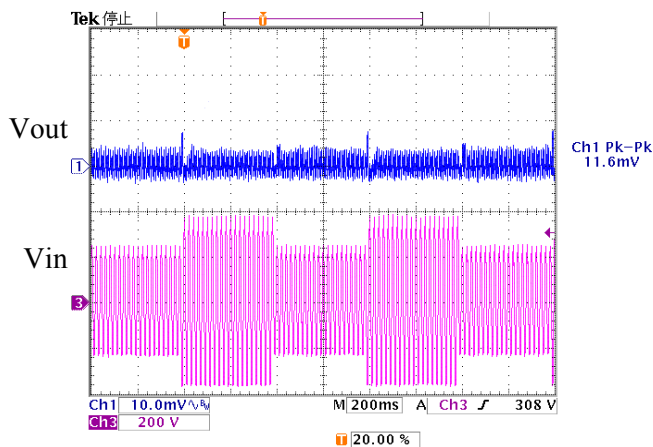


Input Voltage : 85 ⇔ 132 VAC  
Output Current : 100 %

Vin : 100 VAC/DIV  
Vout : 10 mVAC/DIV  
TIME : 200 ms/DIV

normal / event duration : 400 ms

Vp-p : 13.2 mV



Input Voltage : 170 ⇔ 264 VAC  
Output Current : 100 %

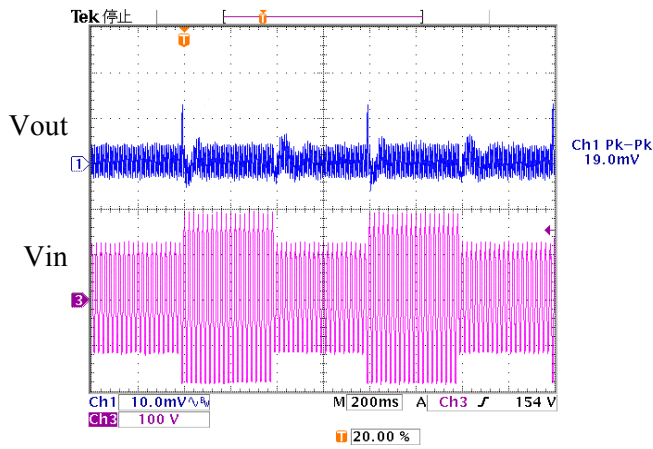
Vin : 200 VAC/DIV  
Vout : 10 mVAC/DIV  
TIME : 200 ms/DIV

normal / event duration : 400 ms

Vp-p : 11.6 mV

Dynamic Line Response Characteristics

Ta : 25°C

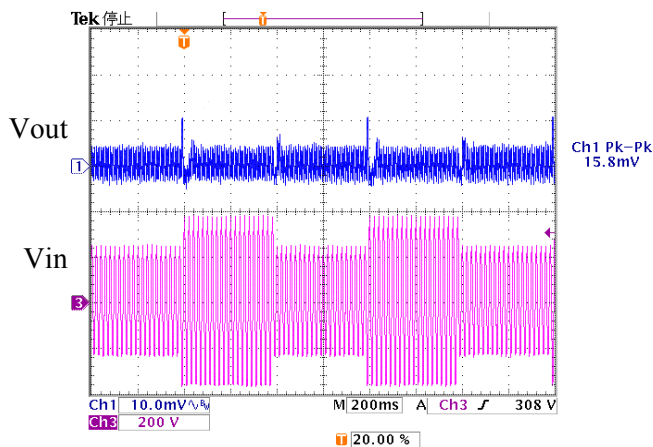


Input Voltage : 85 ⇔ 132 VAC  
Output Current : 100 %

Vin : 100 VAC/DIV  
Vout : 10 mVAC/DIV  
TIME : 200 ms/DIV

normal / event duration : 400 ms

Vp-p : 19.0 mV



Input Voltage : 170 ⇔ 264 VAC  
Output Current : 100 %

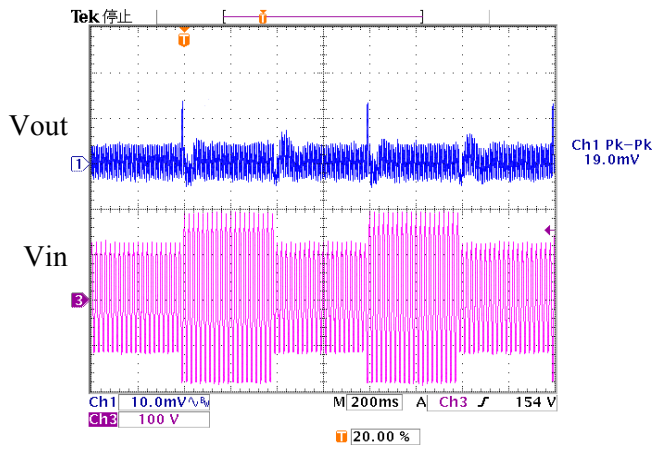
Vin : 200 VAC/DIV  
Vout : 10 mVAC/DIV  
TIME : 200 ms/DIV

normal / event duration : 400 ms

Vp-p : 15.8 mV

Dynamic Line Response Characteristics

Ta : 25°C

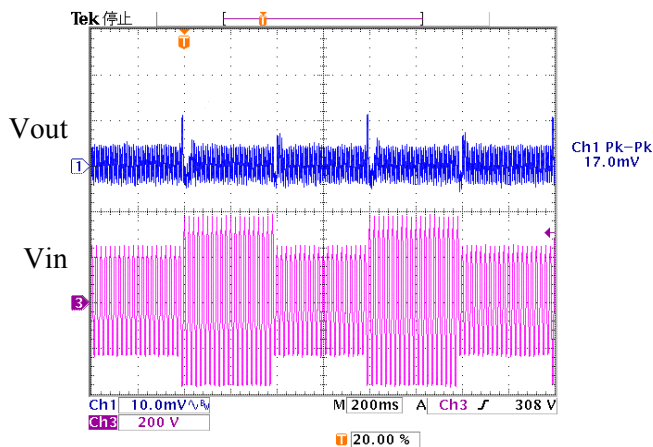


Input Voltage : 85 ⇔ 132 VAC  
Output Current : 100 %

Vin : 100 VAC/DIV  
Vout : 10 mVAC/DIV  
TIME : 200 ms/DIV

normal / event duration : 400 ms

Vp-p : 19.0 mV



Input Voltage : 170 ⇔ 264 VAC  
Output Current : 100 %

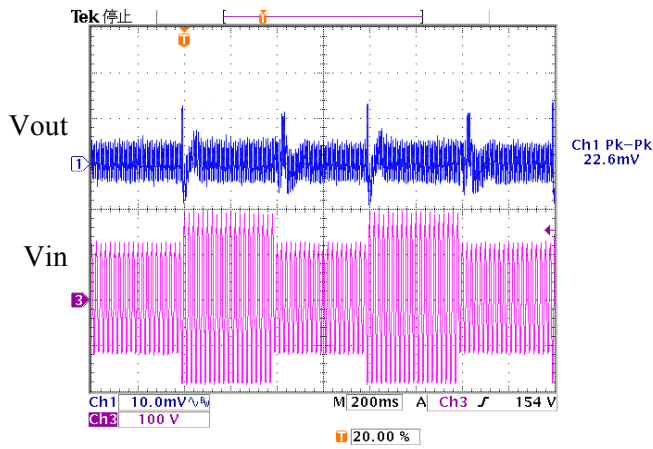
Vin : 200 VAC/DIV  
Vout : 10 mVAC/DIV  
TIME : 200 ms/DIV

normal / event duration : 400 ms

Vp-p : 17.0 mV

Dynamic Line Response Characteristics

Ta : 25°C

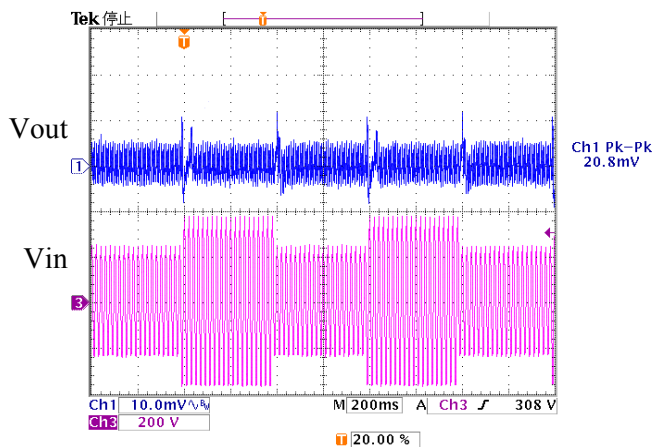


Input Voltage : 85 ⇔ 132 VAC  
Output Current : 100 %

Vin : 100 VAC/DIV  
Vout : 10 mVAC/DIV  
TIME : 200 ms/DIV

normal / event duration : 400 ms

Vp-p : 22.6 mV



Input Voltage : 170 ⇔ 264 VAC  
Output Current : 100 %

Vin : 200 VAC/DIV  
Vout : 10 mVAC/DIV  
TIME : 200 ms/DIV

normal / event duration : 400 ms

Vp-p : 20.8 mV

Leakage Current Characteristics

Measurement Condition

Input Voltage : 85 - 264VAC

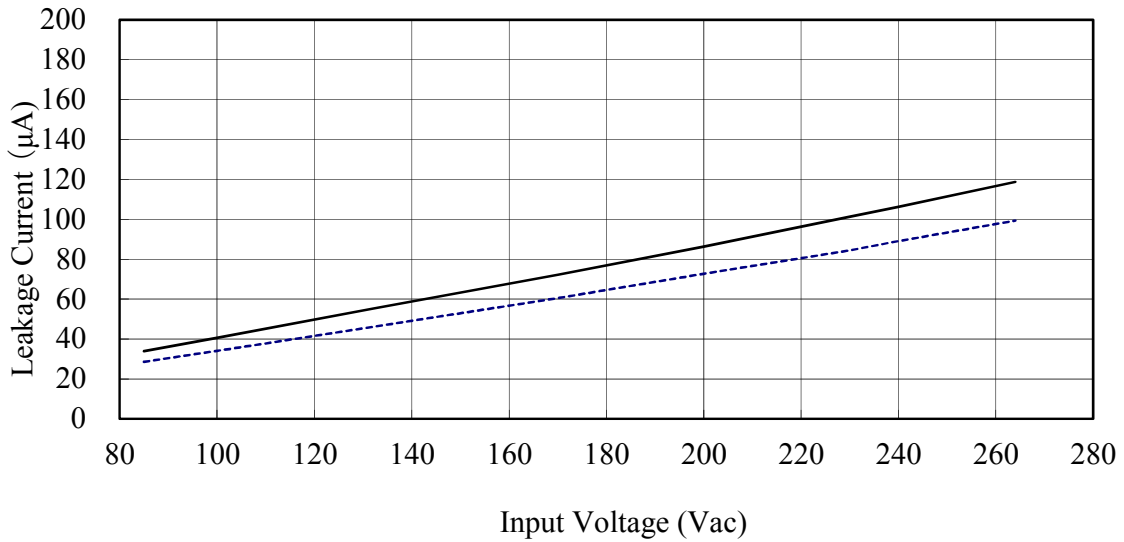
Output Current : 0% load

Ta : 25°C

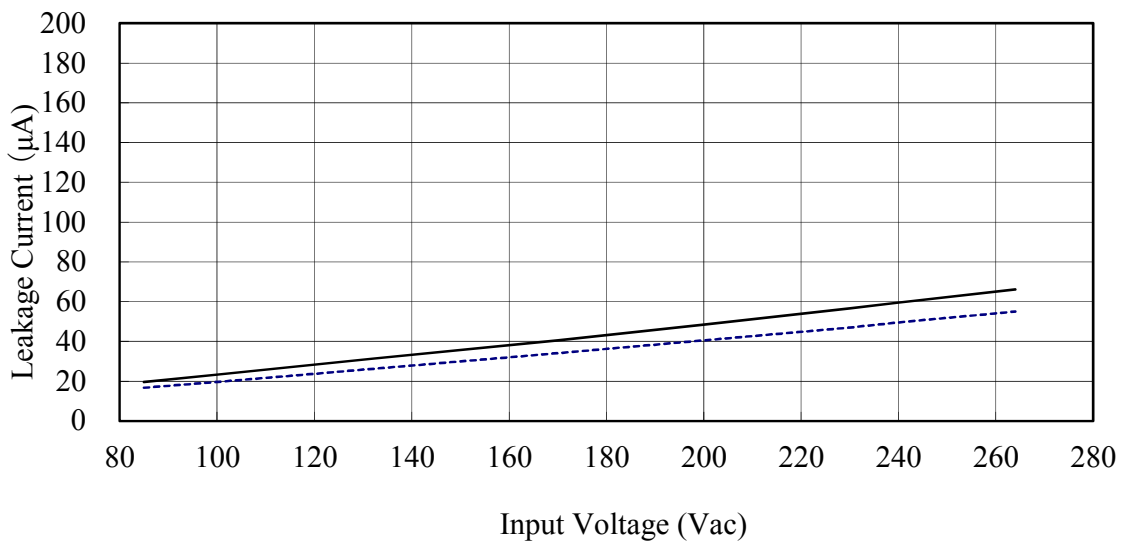
f : 50Hz -----

f : 60Hz ————

■ L-FG



■ N-FG



Measurement Position

