

CUT75

EVALUATION DATA

型式データ

| DWG No. CA809-53-01    |                  |                    |
|------------------------|------------------|--------------------|
| APPD                   | CHK              | DWG                |
| Jackson<br>14-Feb-2014 | Z:4<br>13-Feb-14 | Mhong<br>12-Feb-14 |

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## 使用記号 Terminology used

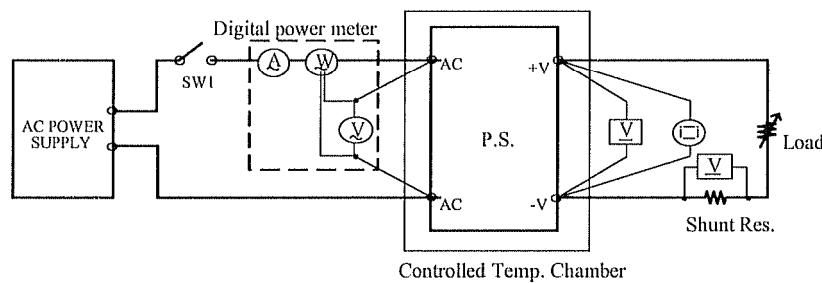
|      | 定義    | Definition               |
|------|-------|--------------------------|
| Vin  | ..... | 入力電圧 Input voltage       |
| Vout | ..... | 出力電圧 Output voltage      |
| Iin  | ..... | 入力電流 Input current       |
| Iout | ..... | 出力電流 Output current      |
| Ta   | ..... | 周囲温度 Ambient temperature |
| f    | ..... | 周波数 Frequency            |

## 1. 測定方法 Evaluation Method

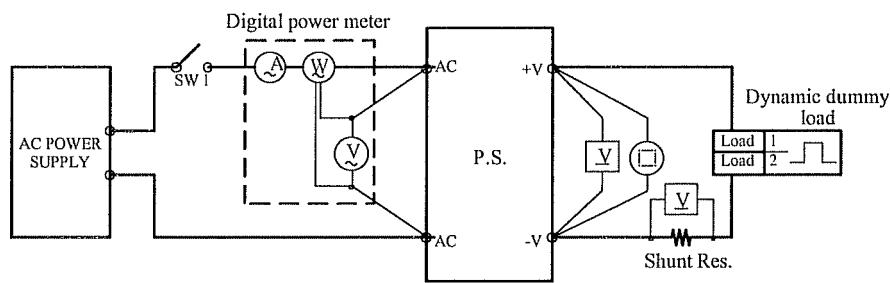
## 1.1 測定回路 Circuit used for determination

測定回路1 Circuit 1 used for determination

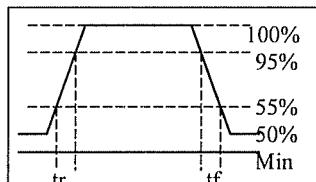
- ・静特性 Steady state data
- ・過電流保護特性 Over current protection (OCP) characteristics
- ・過電圧保護特性 Over voltage protection (OVP) characteristics
- ・出力立ち上がり特性 Output rise characteristics
- ・出力立ち下がり特性 Output fall characteristics
- ・出力保持時間特性 Hold up time characteristics

測定回路2 Circuit 2 used for determination

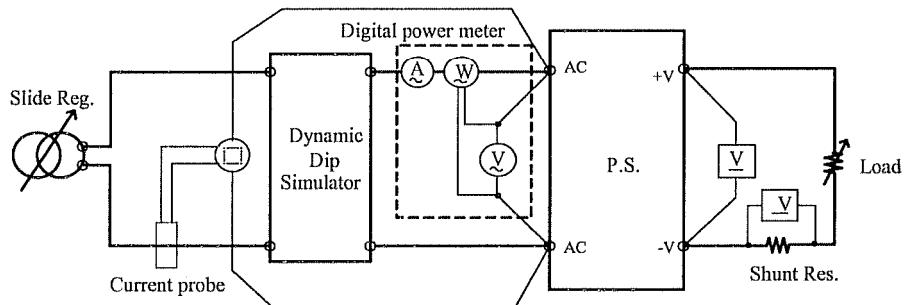
- ・過渡応答(負荷急変)特性 Dynamic load response characteristics



Output current waveform

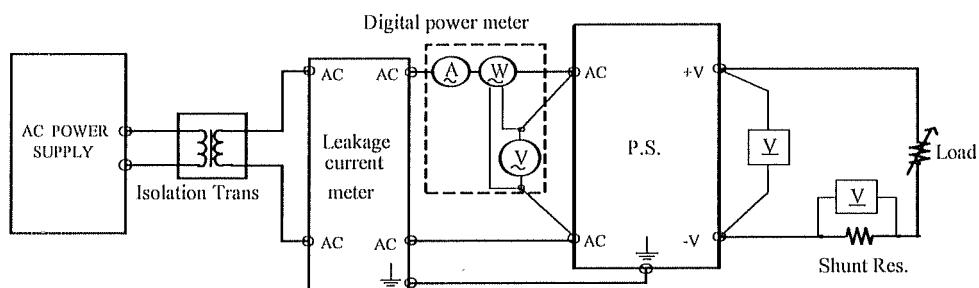
測定回路3 Circuit 3 used for determination

- ・入力サージ電流(突入電流)波形 Inrush current waveform

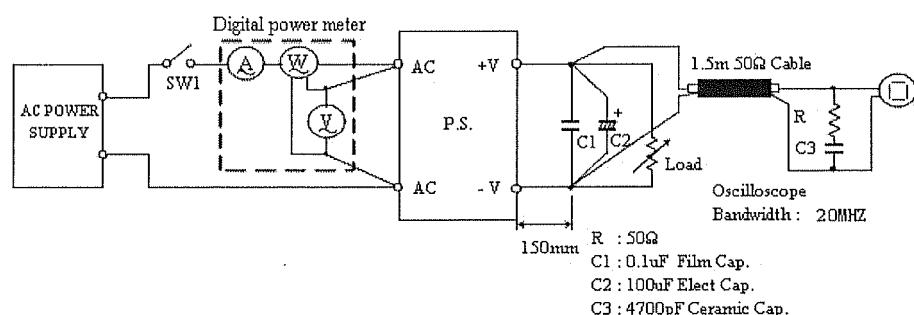


測定回路4 Circuit 4 used for determination

・リーク電流特性 Leakage current characteristics

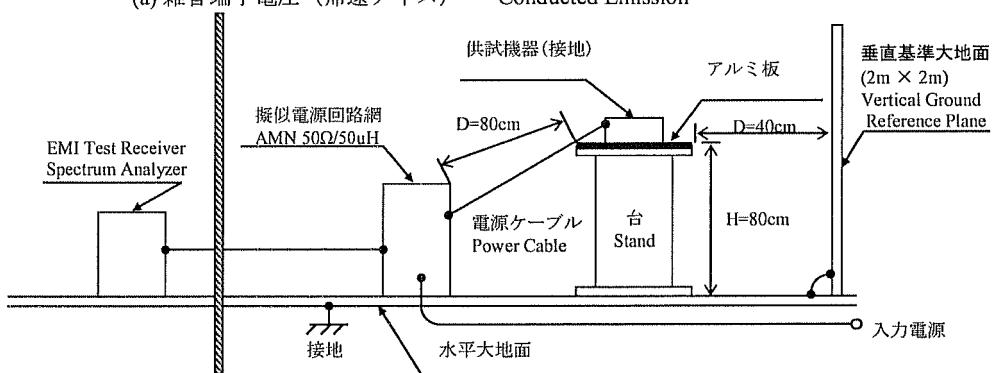
測定回路5 Circuit 5 used for determination

・出力リップル、ノイズ波形 Output ripple and noise waveform

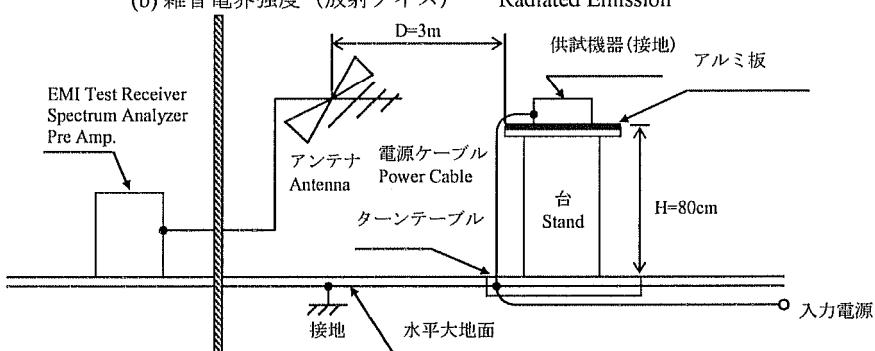
測定構成 Configuration used for determination

・EMI 特性 Electro-Magnetic Interference characteristics

(a) 雜音端子電圧 (帰還ノイズ) Conducted Emission



(b) 雜音電界強度 (放射ノイズ) Radiated Emission



## 1.2 使用測定機器 List of equipment used

|    | EQUIPMENT USED               | MANUFACTURER    | MODEL NO. |
|----|------------------------------|-----------------|-----------|
| 1  | DIGITAL STORAGE OSCILLOSCOPE | TEKTRONIX       | TDS 540A  |
| 2  | DIGITAL STORAGE OSCILLOSCOPE | YOKOGAWA ELECT. | DL1720E   |
| 3  | DIGITAL MULTIMETER           | FLUKE           | 45        |
| 4  | DIGITAL POWER METER          | YOKOGAWA ELECT. | WT210     |
| 5  | CURRENT PROBE                | TEKTRONIX       | 63202     |
| 6  | DC AMPERE METER              | TEKTRONIX       | P5100     |
| 7  | DYNAMIC DUMMY LOAD           | CHROMA          | 63030     |
| 8  | CVCF                         | KIKUSUI         | PCR2000L  |
| 9  | LEAKAGE CURRENT METER        | SIMPSON         | 3226      |
| 10 | CONTROLLED TEMP. CHAMBER     | TABA-ESPEC      | 63203     |
| 11 | EMI TEST RECEIVER            | ROHDE & SCHWARZ | ESCI-03   |
| 12 | LISN                         | ROHDE & SCHWARZ | ENV216    |
| 13 | BICONICAL ANTENNA            | EMCO            | 63208     |

## 2. 特性データ Characteristics

## 2.1 静特性 Steady state data

## (1) 入力・負荷・温度変動／出力起動・遮断電圧

Regulation - line and load, Temperature drift / Start up voltage and Drop out voltage

Model:CUT75-522

CH1: 5V

## 1. Regulation - line and load

Condition Ta : 25 °C

| Iout \ Vin      | 85VAC  | 100VAC | 200VAC | 265VAC | line regulation |        |
|-----------------|--------|--------|--------|--------|-----------------|--------|
| 0%              | 5.031V | 5.031V | 5.031V | 5.031V | 0mV             | 0.000% |
| 50%             | 5.029V | 5.029V | 5.029V | 5.029V | 0mV             | 0.000% |
| 100%            | 5.026V | 5.026V | 5.027V | 5.027V | 1mV             | 0.020% |
| load regulation | 5mV    | 5mV    | 4mV    | 4mV    |                 |        |
|                 | 0.100% | 0.100% | 0.080% | 0.080% |                 |        |

## 2. Temperature drift

Conditions Vin : 100 VAC

Iout : 100 %

| Ta   | -20°C  | +25°C  | +50°C  | temperature stability |
|------|--------|--------|--------|-----------------------|
| Vout | 5.033V | 5.026V | 5.027V | 7mV 0.140%            |

CH2: 12V

## 1. Regulation - line and load

Condition Ta : 25 °C

| Iout \ Vin      | 85VAC   | 100VAC  | 200VAC  | 265VAC  | line regulation |        |
|-----------------|---------|---------|---------|---------|-----------------|--------|
| 0%              | 12.075V | 12.085V | 12.113V | 12.118V | 43mV            | 0.358% |
| 50%             | 11.878V | 11.880V | 11.886V | 11.888V | 10mV            | 0.083% |
| 100%            | 11.766V | 11.776V | 11.806V | 11.813V | 47mV            | 0.392% |
| load regulation | 309mV   | 309mV   | 307mV   | 305mV   |                 |        |
|                 | 2.575%  | 2.575%  | 2.558%  | 2.542%  |                 |        |

## 2. Temperature drift

Conditions Vin : 100 VAC

Iout : 100 %

| Ta   | -20°C   | +25°C   | +50°C   | temperature stability |
|------|---------|---------|---------|-----------------------|
| Vout | 11.813V | 11.776V | 11.779V | 37mV 0.308%           |

CH3: -12V

## 1. Regulation - line and load

Condition Ta : 25 °C

| Iout \ Vin      | 85VAC    | 100VAC   | 200VAC   | 265VAC   | line regulation |         |
|-----------------|----------|----------|----------|----------|-----------------|---------|
| 0%              | -12.282V | -12.273V | -12.281V | -12.275V | 9mV             | -0.075% |
| 50%             | -12.187V | -12.177V | -12.151V | -12.146V | 41mV            | -0.342% |
| 100%            | -12.152V | -12.142V | -12.111V | -12.104V | 48mV            | -0.400% |
| load regulation | 130mV    | 131mV    | 170mV    | 171mV    |                 |         |
|                 | -1.083%  | -1.092%  | -1.417%  | -1.425%  |                 |         |

## 2. Temperature drift

Conditions Vin : 100 VAC

Iout : 100 %

| Ta   | -20°C    | +25°C    | +50°C    | temperature stability |
|------|----------|----------|----------|-----------------------|
| Vout | -12.078V | -12.142V | -12.142V | 64mV -0.533%          |

## 3. Start up voltage and Drop out voltage

Conditions Ta : 25 °C

Iout : 100 %

|                        |       |
|------------------------|-------|
| Start up voltage (Vin) | 74VAC |
| Drop out voltage (Vin) | 58VAC |

## 2. 特性データ

## Characteristics

## 2.1 静特性 Steady state data

## (1) 入力・負荷・温度変動／出力起動・遮断電圧

Regulation - line and load, Temperature drift / Start up voltage and Drop out voltage

Model:CUT75-5FF

CH1: 5V

## 1. Regulation - line and load

Condition Ta : 25 °C

| Iout \ Vin      | 85VAC  | 100VAC | 200VAC | 265VAC | line regulation |        |
|-----------------|--------|--------|--------|--------|-----------------|--------|
| 0%              | 5.031V | 5.031V | 5.031V | 5.031V | 0mV             | 0.000% |
| 50%             | 5.030V | 5.030V | 5.031V | 5.031V | 1mV             | 0.020% |
| 100%            | 5.027V | 5.028V | 5.028V | 5.029V | 2mV             | 0.040% |
| load regulation |        | 4mV    | 3mV    | 3mV    |                 |        |
| regulation      |        | 0.080% | 0.060% | 0.060% | 0.040%          |        |

## 2. Temperature drift

Conditions Vin : 100 VAC

Iout : 100 %

| Ta   | -20°C  | +25°C  | +50°C  | temperature stability |
|------|--------|--------|--------|-----------------------|
| Vout | 5.020V | 5.028V | 5.031V | 11mV 0.220%           |

CH2: 15V

## 1. Regulation - line and load

Condition Ta : 25 °C

| Iout \ Vin      | 85VAC   | 100VAC  | 200VAC  | 265VAC  | line regulation |        |
|-----------------|---------|---------|---------|---------|-----------------|--------|
| 0%              | 15.361V | 15.372V | 15.422V | 15.427V | 66mV            | 0.440% |
| 50%             | 15.128V | 15.131V | 15.136V | 15.139V | 11mV            | 0.073% |
| 100%            | 15.014V | 15.025V | 15.053V | 15.057V | 43mV            | 0.287% |
| load regulation |         | 347mV   | 347mV   | 369mV   | 370mV           |        |
| regulation      |         | 2.313%  | 2.313%  | 2.460%  | 2.467%          |        |

## 2. Temperature drift

Conditions Vin : 100 VAC

Iout : 100 %

| Ta   | -20°C   | +25°C   | +50°C   | temperature stability |
|------|---------|---------|---------|-----------------------|
| Vout | 15.045V | 15.025V | 15.025V | 20mV 0.133%           |

CH3: -15V

## 1. Regulation - line and load

Condition Ta : 25 °C

| Iout \ Vin      | 85VAC    | 100VAC   | 200VAC   | 265VAC   | line regulation |         |
|-----------------|----------|----------|----------|----------|-----------------|---------|
| 0%              | -15.591V | -15.570V | -15.563V | -15.568V | 28mV            | -0.187% |
| 50%             | -15.490V | -15.476V | -15.453V | -15.450V | 40mV            | -0.267% |
| 100%            | -15.451V | -15.440V | -15.412V | -15.407V | 44mV            | -0.293% |
| load regulation |          | 140mV    | 130mV    | 151mV    | 161mV           |         |
| regulation      |          | -0.933%  | -0.867%  | -1.007%  | -1.073%         |         |

## 2. Temperature drift

Conditions Vin : 100 VAC

Iout : 100 %

| Ta   | -20°C    | +25°C    | +50°C    | temperature stability |
|------|----------|----------|----------|-----------------------|
| Vout | -15.403V | -15.440V | -15.442V | 39mV -0.260%          |

## 3. Start up voltage and Drop out voltage

Conditions Ta : 25 °C

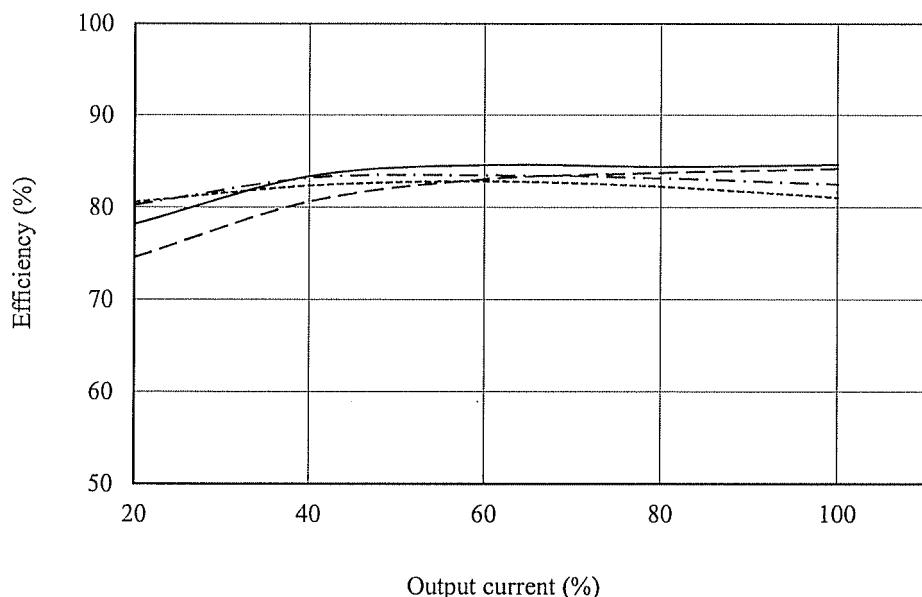
Iout : 100 %

|                        |       |
|------------------------|-------|
| Start up voltage (Vin) | 73VAC |
| Drop out voltage (Vin) | 58VAC |

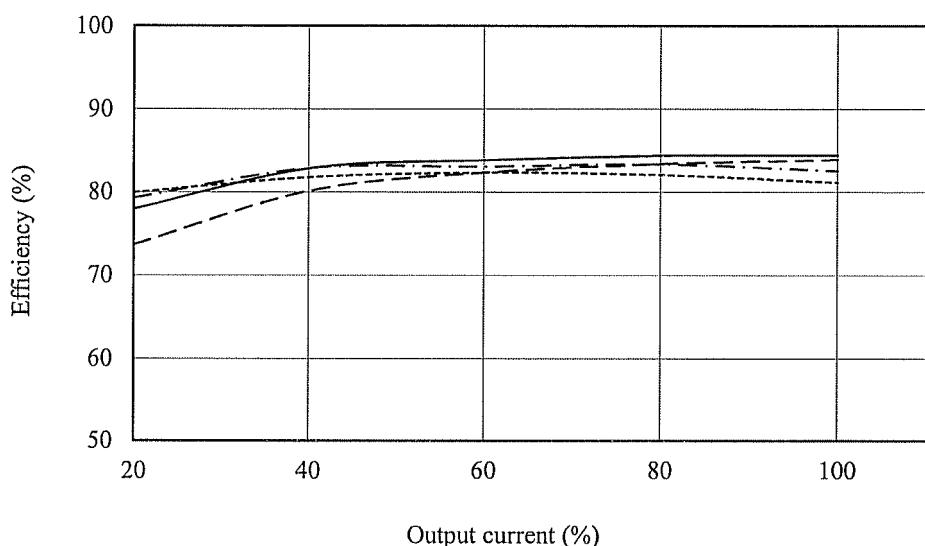
## (2) 効率対出力電流

Efficiency vs. Output current  
Model:CUT75-522

Conditions    Vin : 85 VAC -----  
                 : 100 VAC - - - -  
                 : 200 VAC ————  
                 : 265 VAC - - - -  
Ta : 25 °C



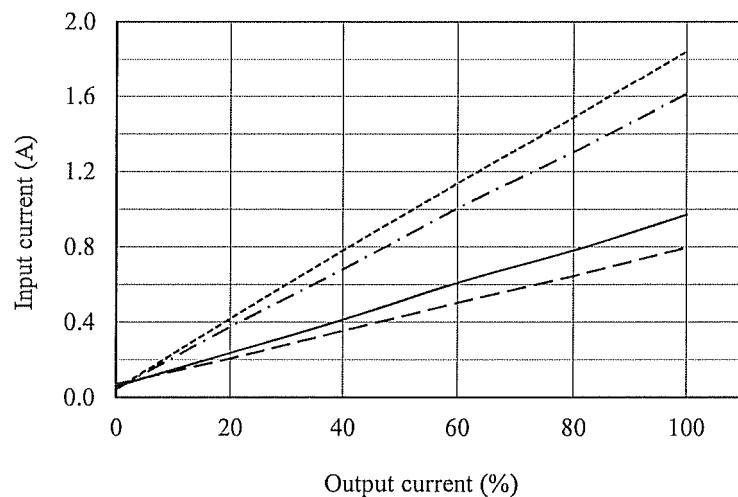
Model:CUT75-5FF



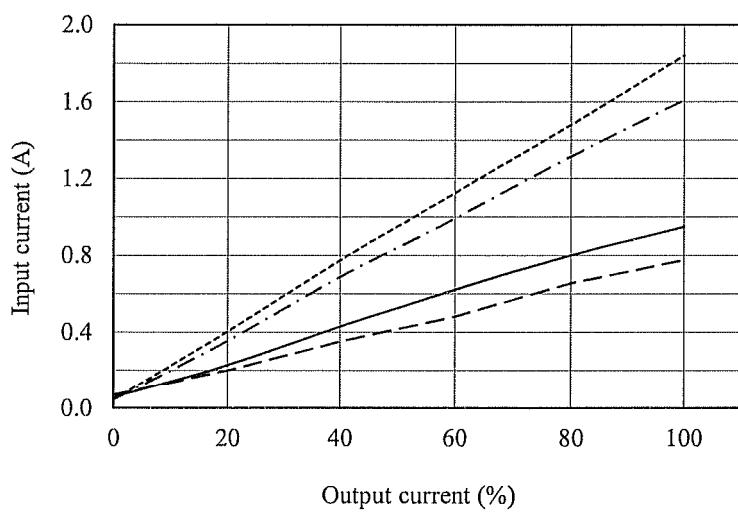
## (3) 入力電流対出力電流

Input current vs. Output current  
Model:CUT75-522

Conditions    Vin : 85 VAC -----  
                  : 100 VAC - - - -  
                  : 200 VAC ————  
                  : 265 VAC - - - -  
Ta : 25 °C



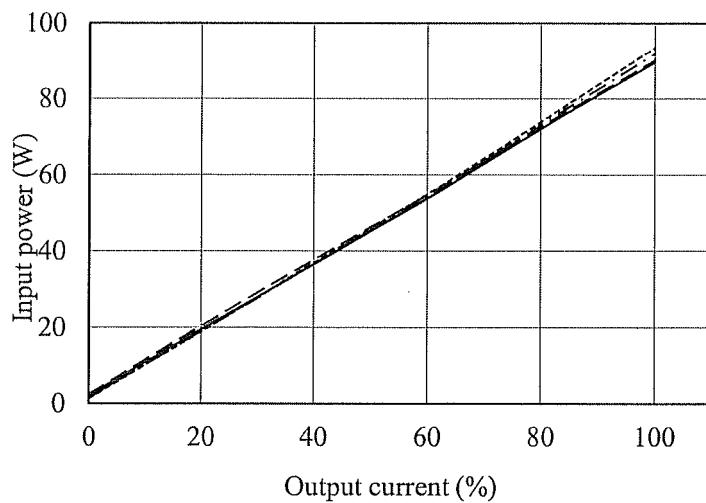
Model:CUT75-5FF



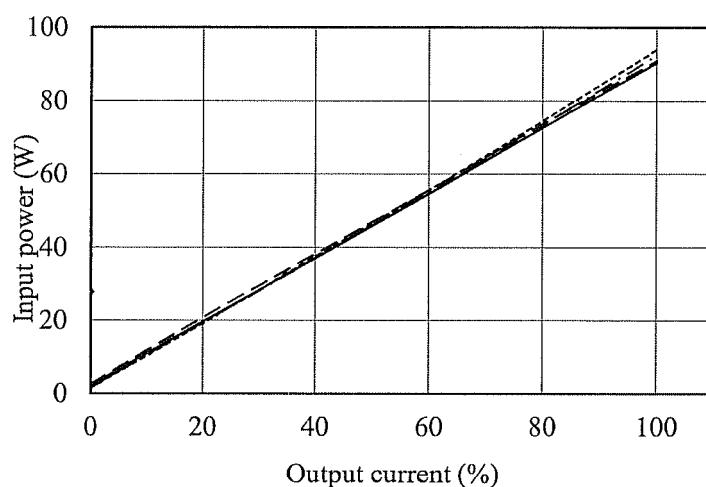
## (4) 入力電力対出力電流

Input power vs. Output current  
Model:CUT75-522

Conditions    Vin :    85 VAC    -----  
              :    100 VAC    - - -  
              :    200 VAC    ———  
              :    265 VAC    - - -  
              Ta :    25 °C



Model:CUT75-5FF



## 2.2 過電流保護特性

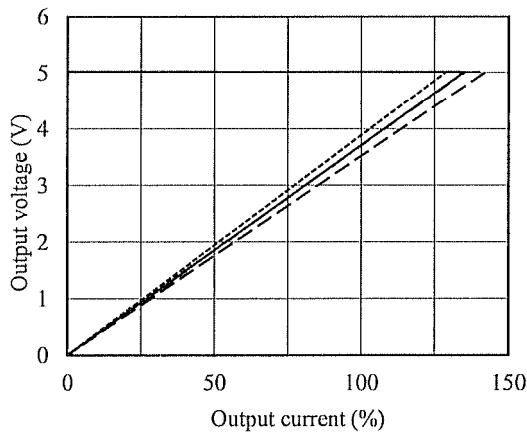
Over current protection (OCP) characteristics

Model:CUT75-522

| Conditions | Vin :   |
|------------|---------|
|            | 85 VAC  |
|            | 100 VAC |
|            | 200 VAC |
|            | 265 VAC |

Ta : 25 °C

CH1:5V

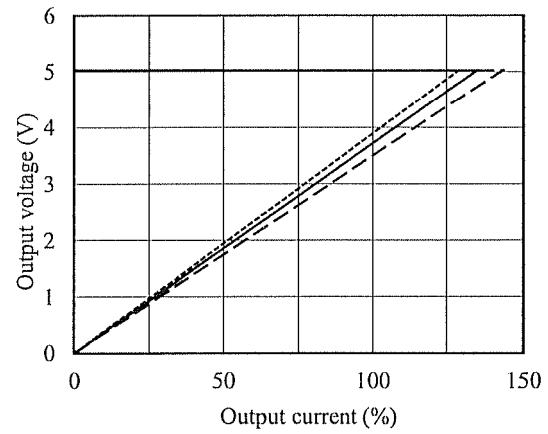


Model:CUT75-5FF

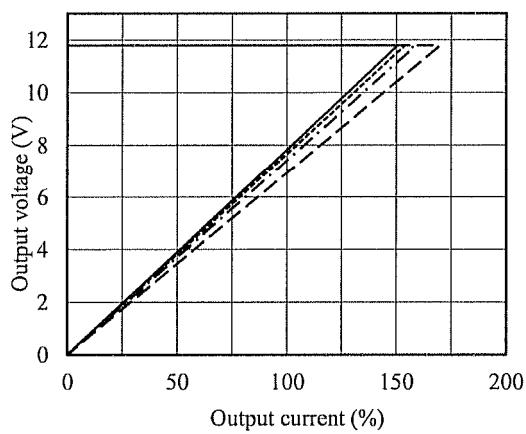
| Conditions | Vin :   |
|------------|---------|
|            | 85 VAC  |
|            | 100 VAC |
|            | 200 VAC |
|            | 265 VAC |

Ta : 25 °C

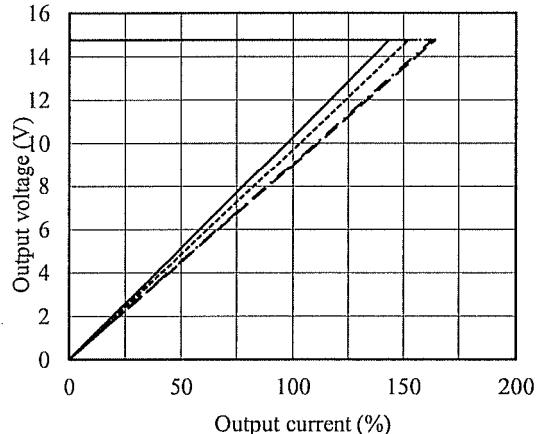
CH1:5V



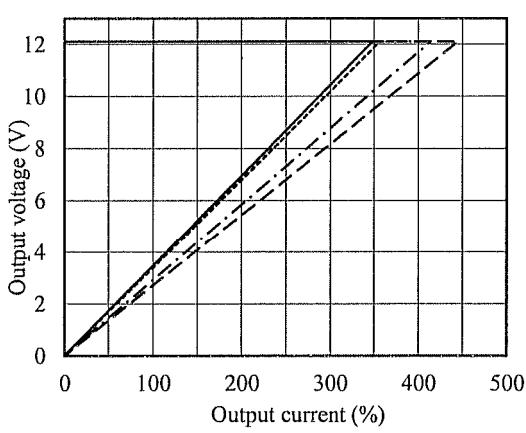
CH2: +12V



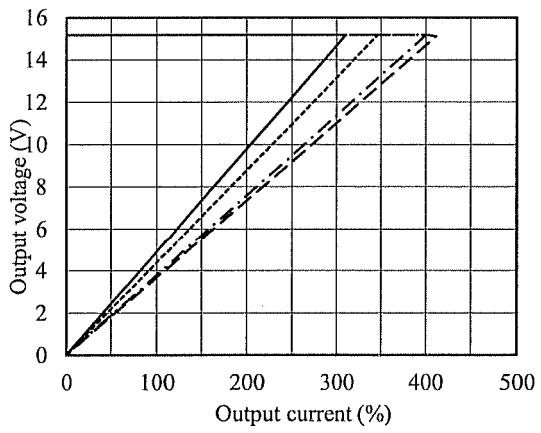
CH2: +15V



CH3: -12V



CH3: -15V

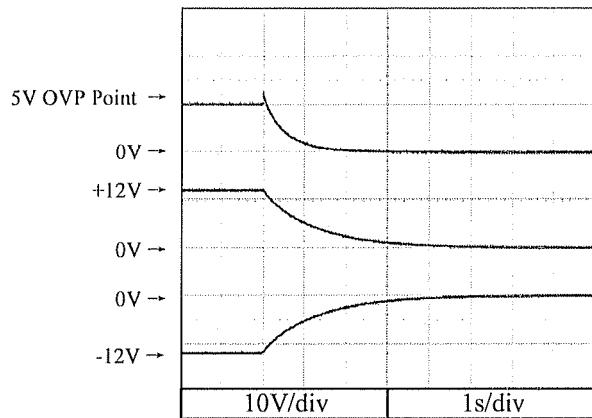


## 2.3 過電圧保護特性

Over voltage protection (OVP) characteristics

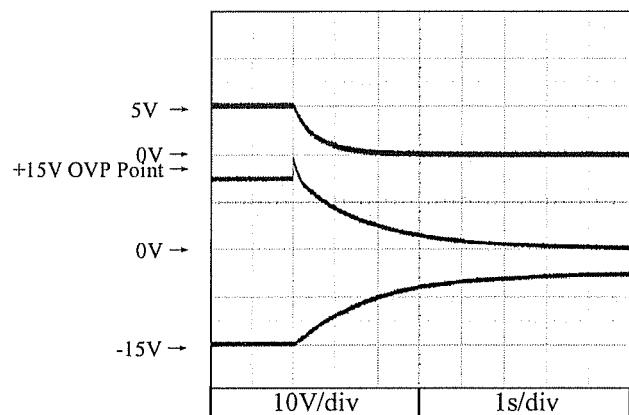
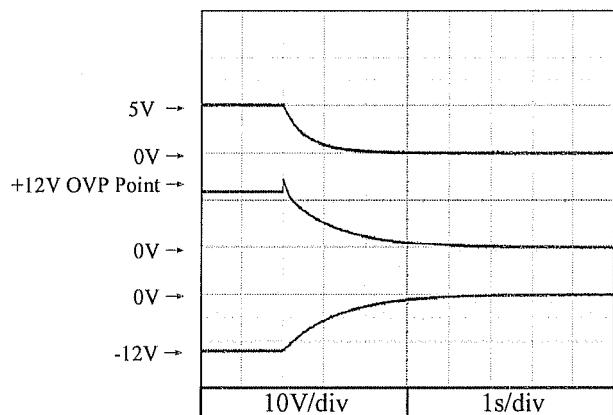
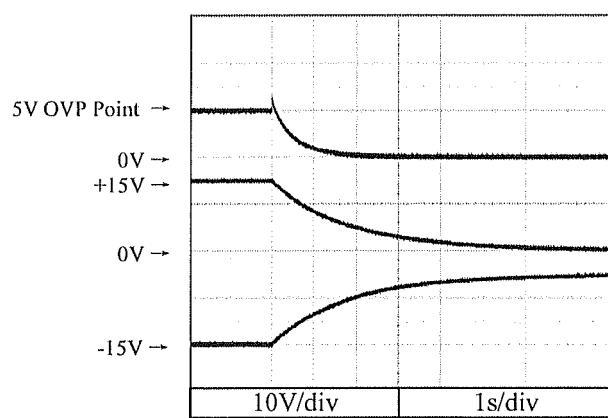
Model:CUT75-522

Conditions Vin : 100 VAC  
Iout : 0 %  
Ta : 25 °C

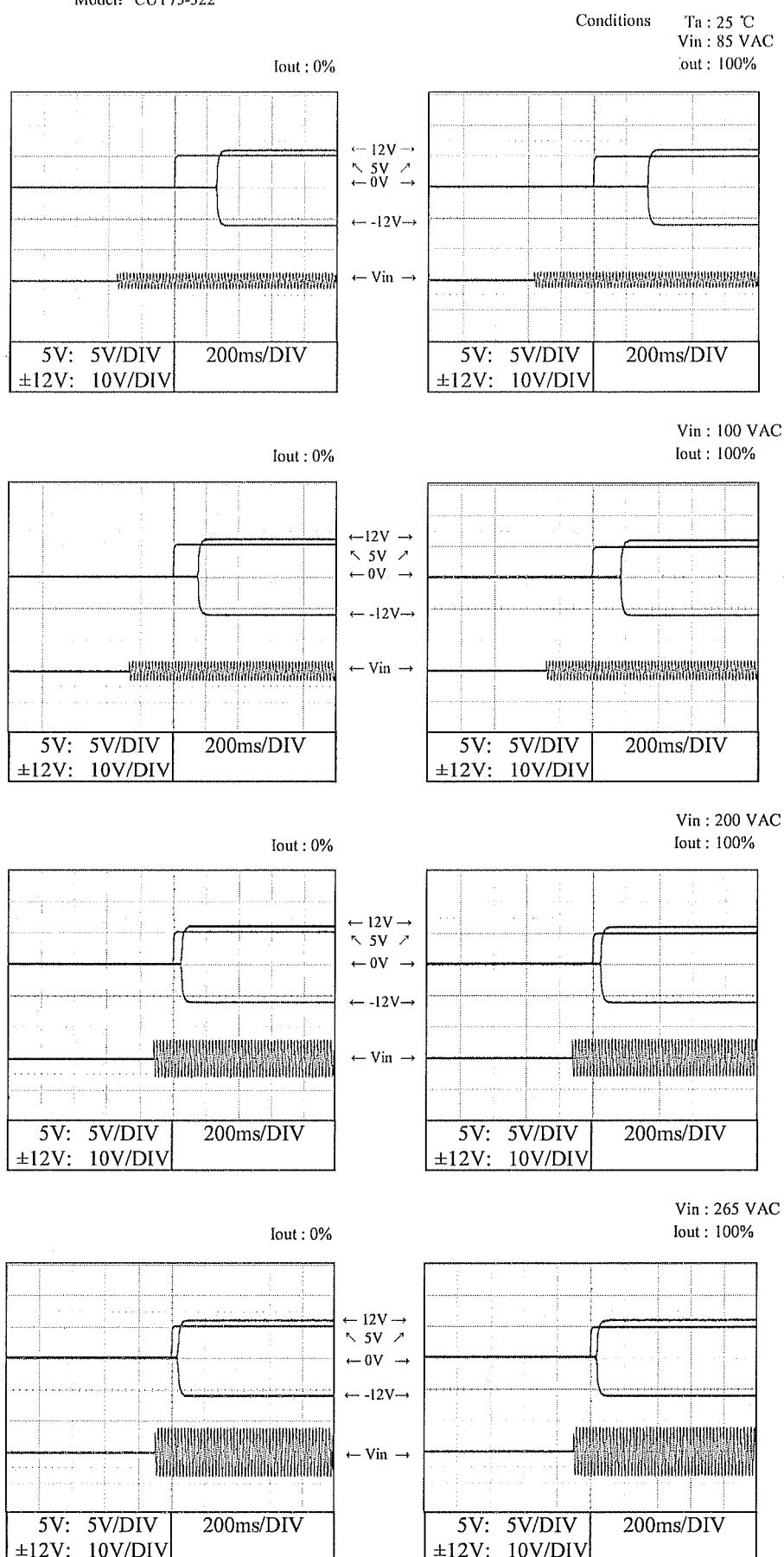


Model:CUT75-5FF

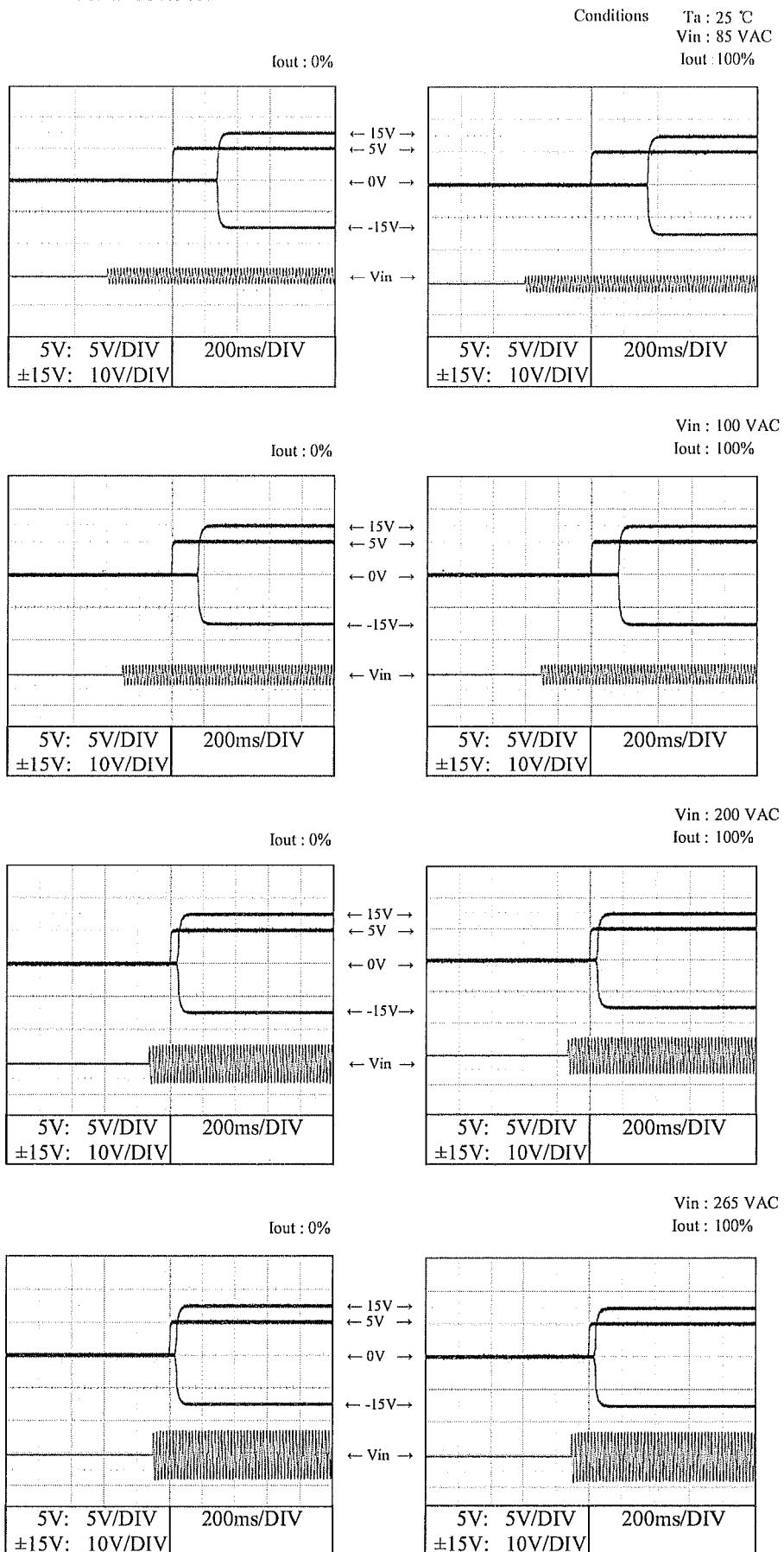
Conditions Vin : 100 VAC  
Iout : 0 %  
Ta : 25 °C



2.4 出力立ち上がり特性  
 Output rise characteristics  
 Model: CUT75-522

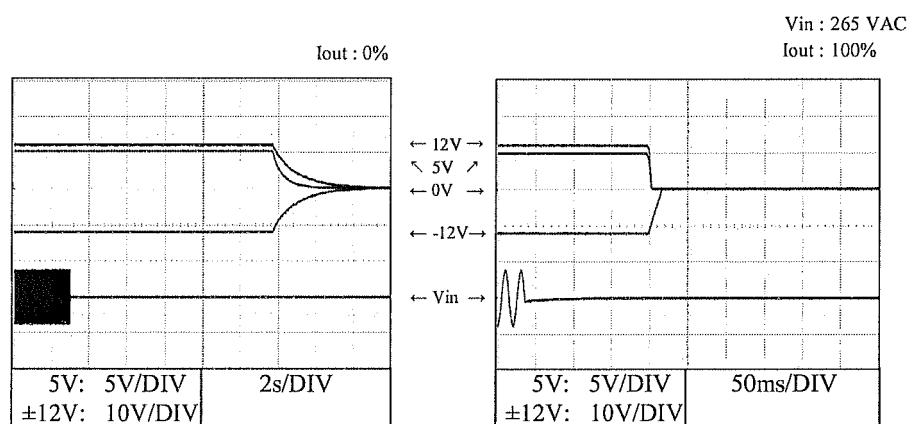
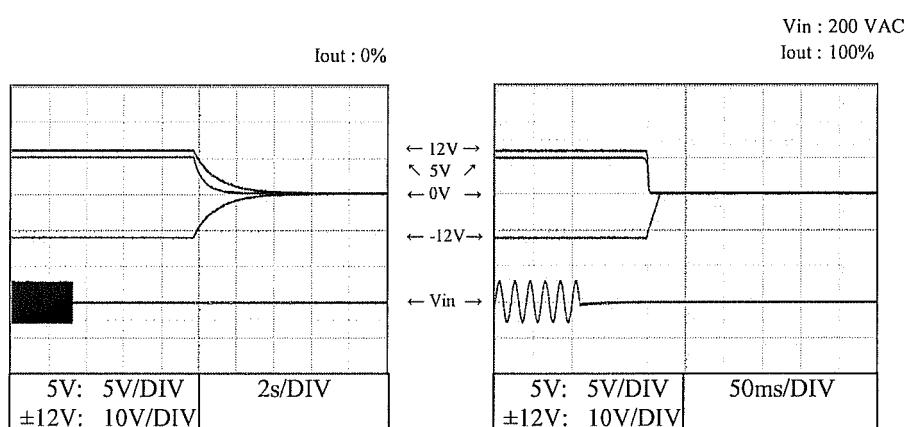
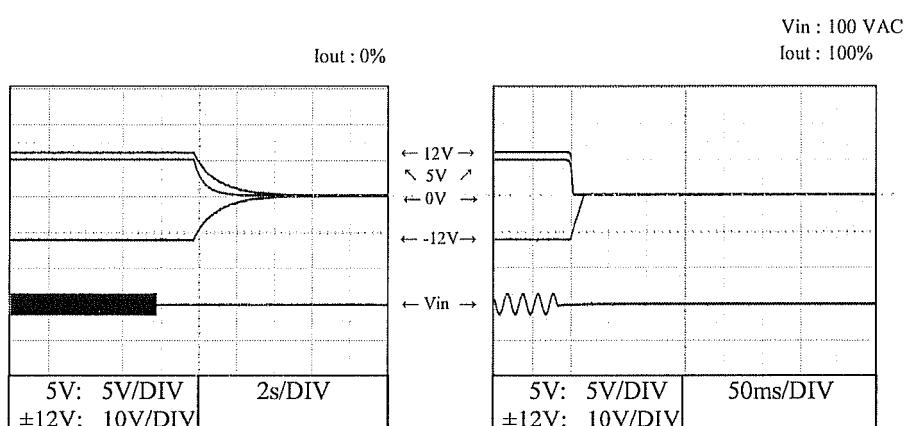
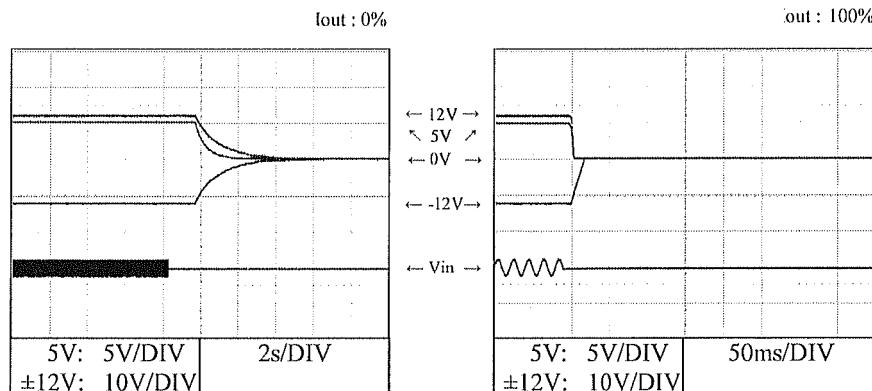


2.4 出力立ち上がり特性  
 Output rise characteristics  
 Model: CUT75-5FF

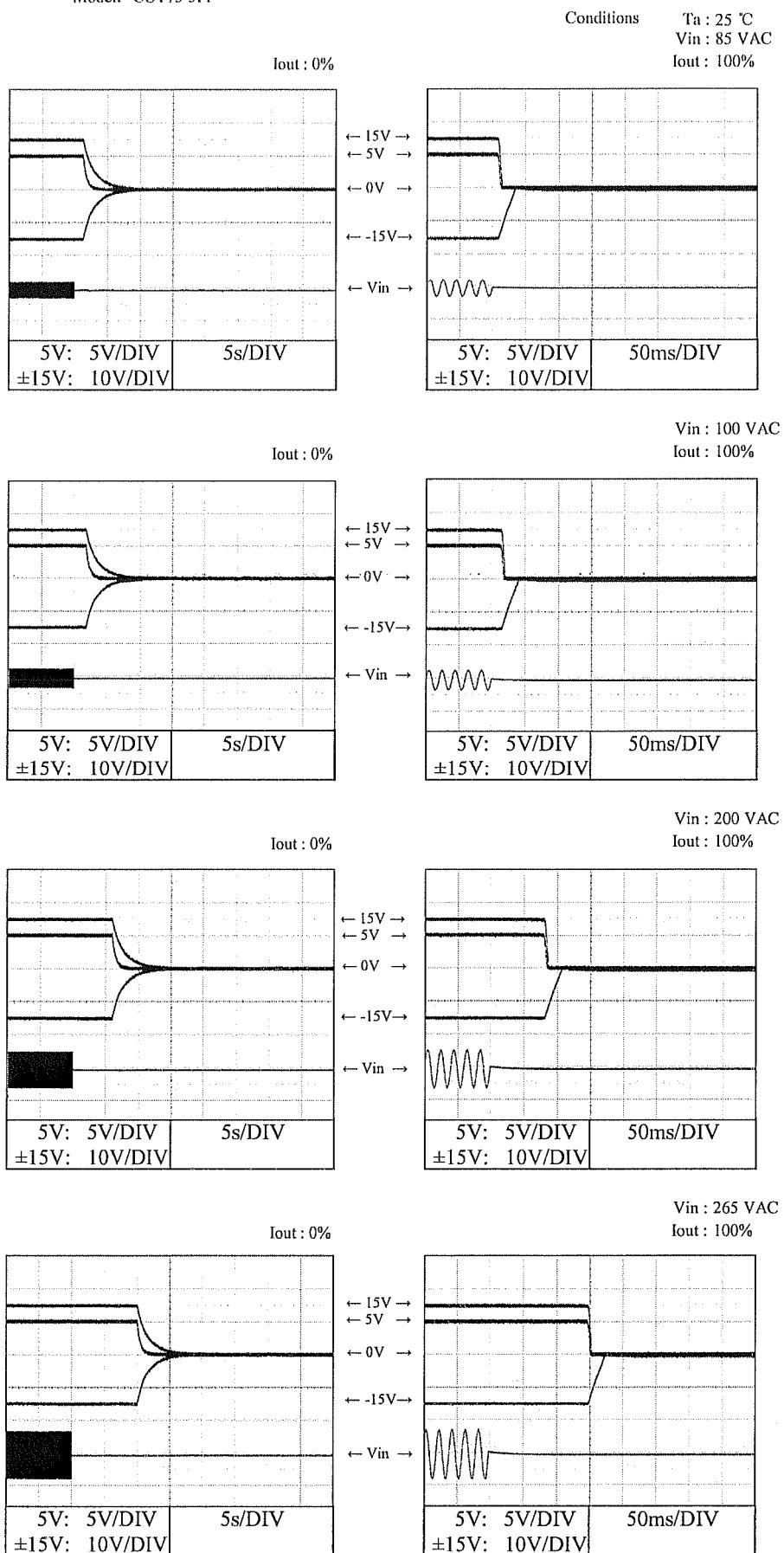


2.5 出力立ち下り特性  
 Output fall characteristics  
 Model: CUT75-522

Conditions       $T_a : 25^\circ C$   
 $V_{in} : 85 VAC$   
 $I_{out} : 100\%$



2.5 出力立ち下がり特性  
 Output fall characteristics  
 Model: CUT75-5FF

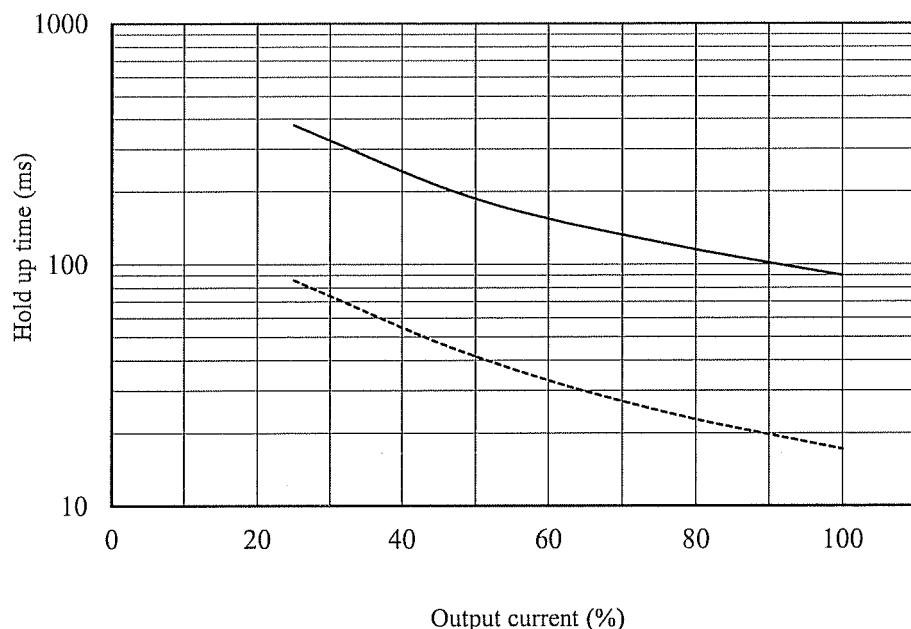


## 2.6 出力保持時間特性

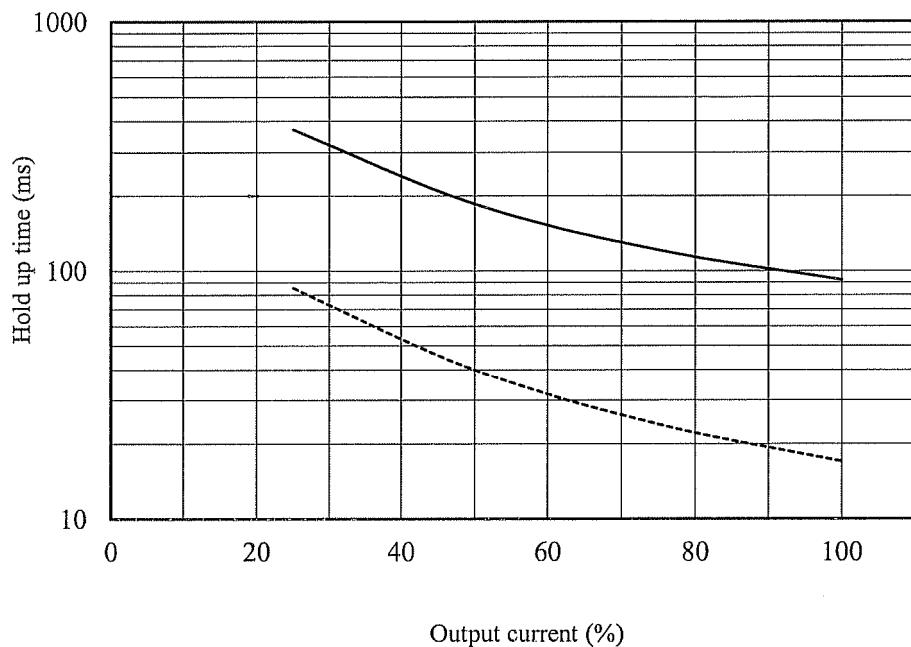
Hold up time characteristics

Conditions    Vin : 100 VAC -----  
                  200 VAC ———  
                  Ta : 25 °C

Model:CUT75-522



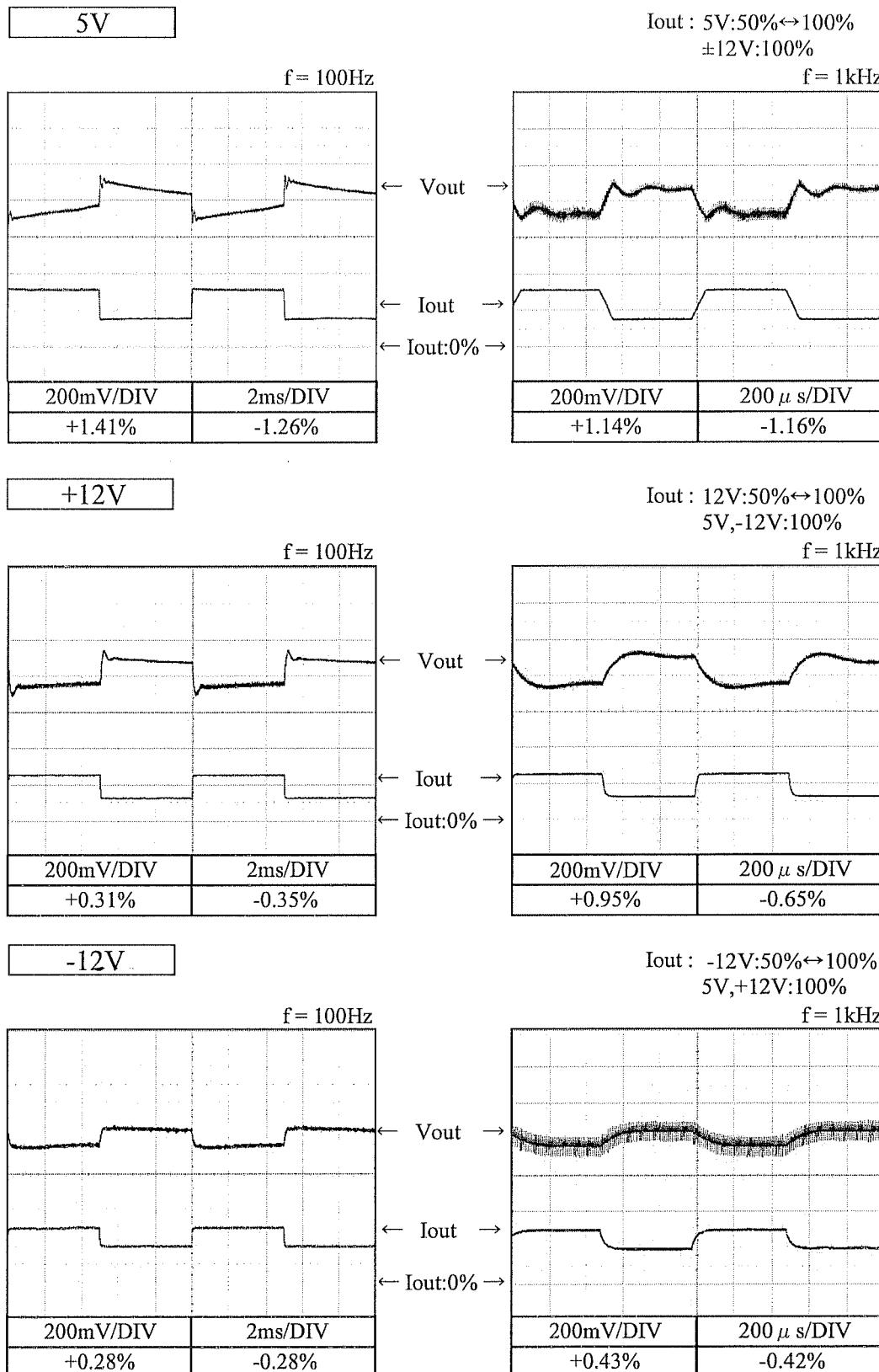
Model:CUT75-5FF



## 2.7 過渡応答（負荷急変）特性

Dynamic load response characteristics  
Model:CUT75-522

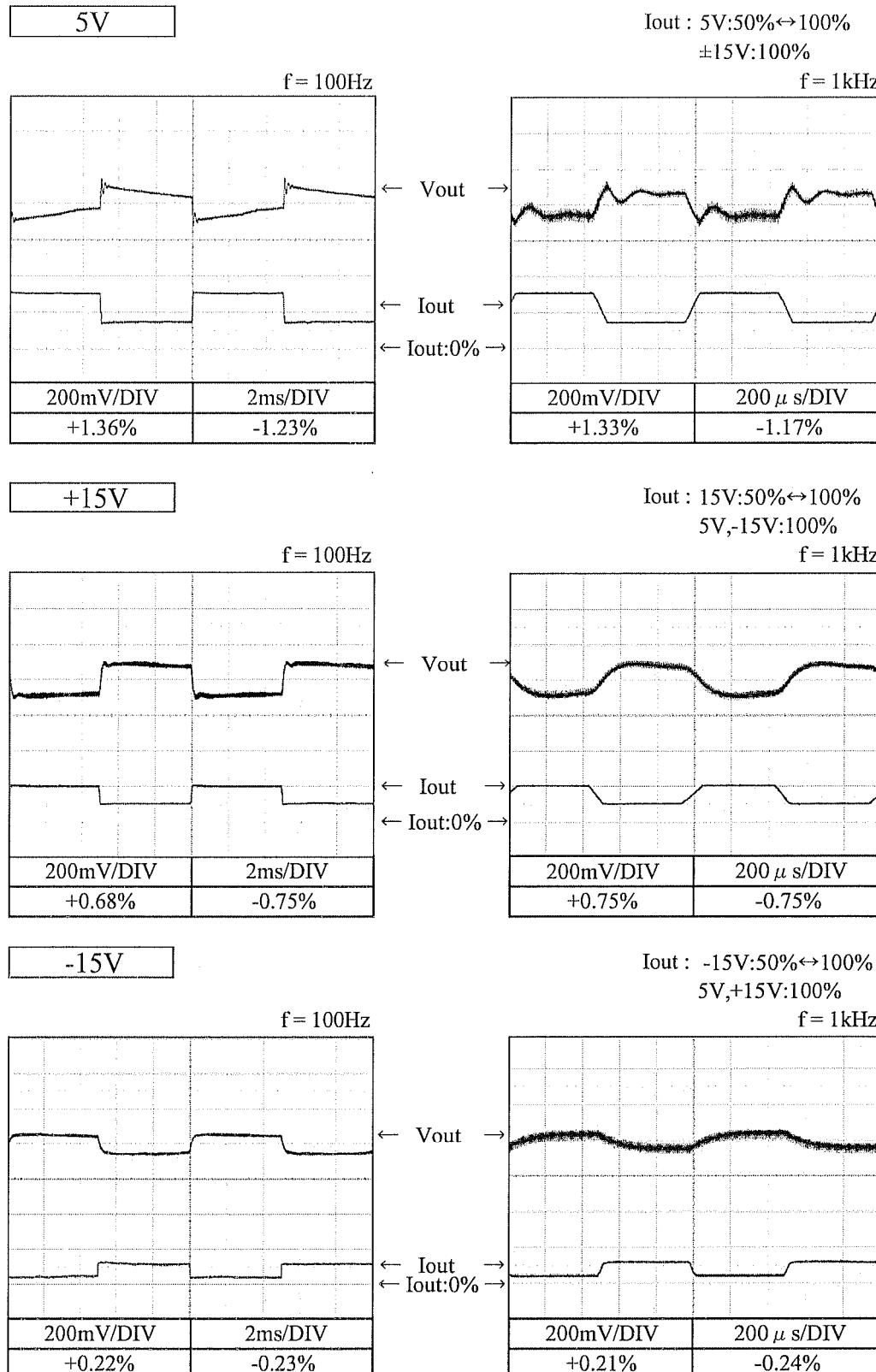
Conditions      Vin : 100VAC  
                  Ta : 25°C  
                  (tr = tf = 75us)



## 2.7 過渡応答（負荷急変）特性

Dynamic load response characteristics  
Model:CUT75-5FF

Conditions      Vin : 100VAC  
                  Ta : 25°C  
                  (tr = tf = 75us)



## 2.8 入力電圧瞬停特性

Response to brown out characteristics  
Model:CUT75-522

Conditions  
Vin : 100 VAC  
Iout : 100 %  
Ta : 25 °C

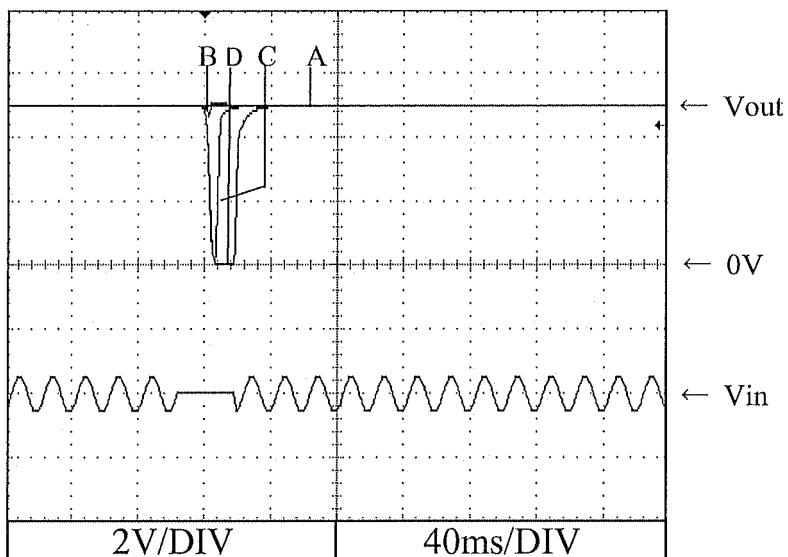
CH1:5V

A = 14ms

B = 17ms

C = 24ms

D = 34ms



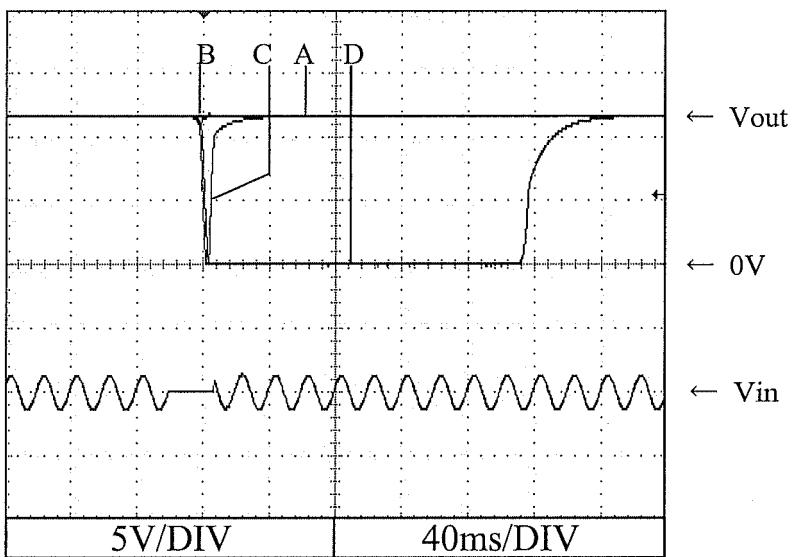
CH2:+12V

A = 14ms

B = 18ms

C = 23ms

D = 27ms



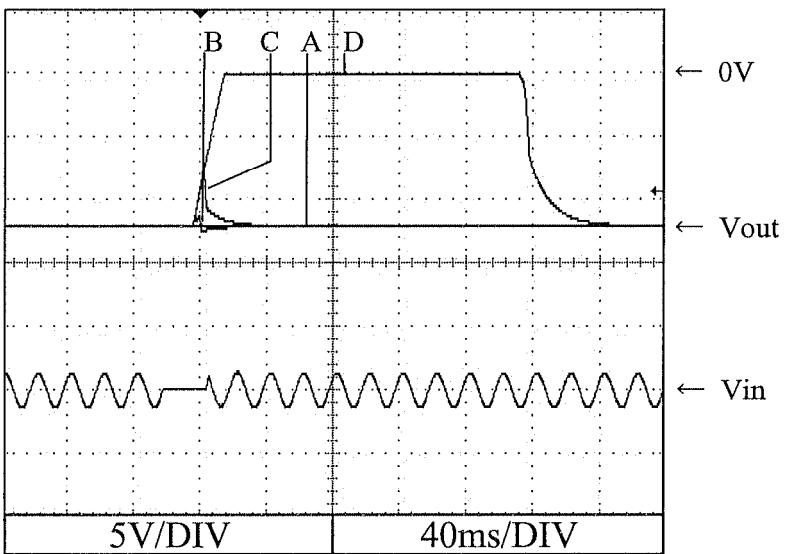
CH3: -12V

A = 17ms

B = 19ms

C = 23ms

D = 26ms



## 2.8 入力電圧瞬停特性

Response to brown out characteristics  
Model:CUT75-522

Conditions Vin : 200 VAC  
Iout : 100 %  
Ta : 25 °C

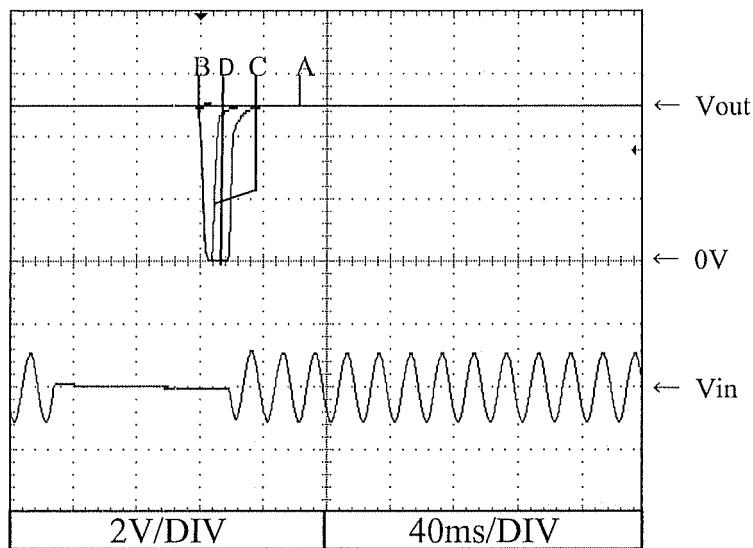
CH1:5V

A = 85ms

B = 90ms

C = 98ms

D = 110ms



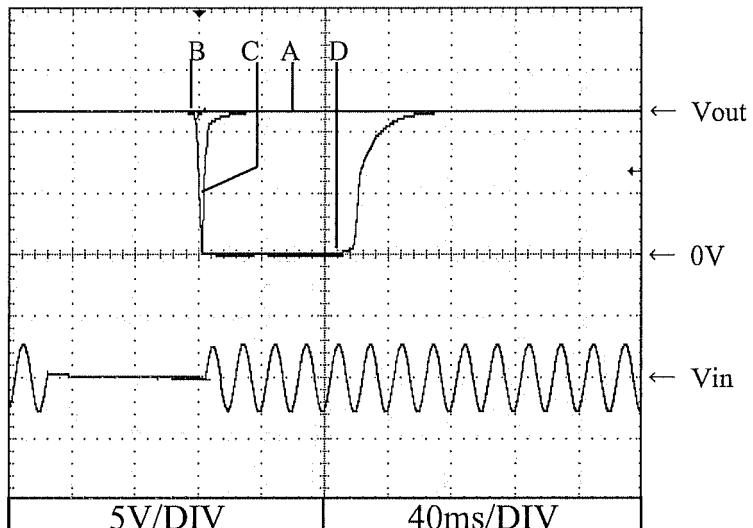
CH2:+12V

A = 88ms

B = 93ms

C = 97ms

D = 103ms



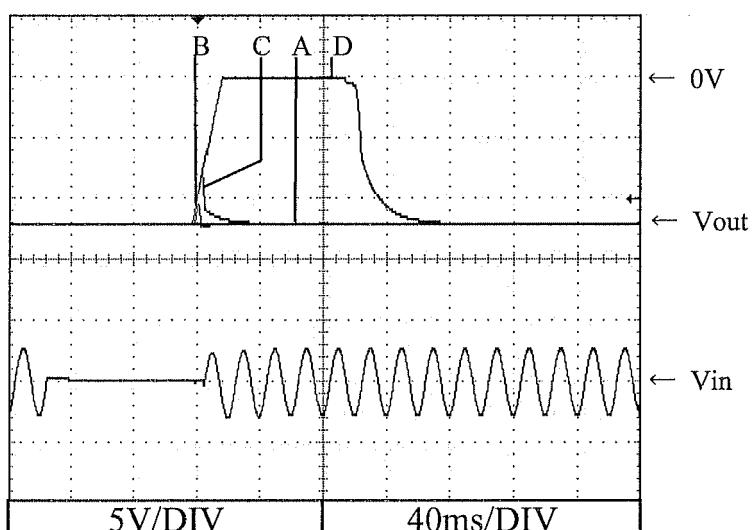
CH3: -12V

A = 88ms

B = 93ms

C = 96ms

D = 99ms



## 2.8 入力電圧瞬停特性

Response to brown out characteristics  
Model:CUT75-5FF

Conditions Vin : 100 VAC  
Iout : 100 %  
Ta : 25 °C

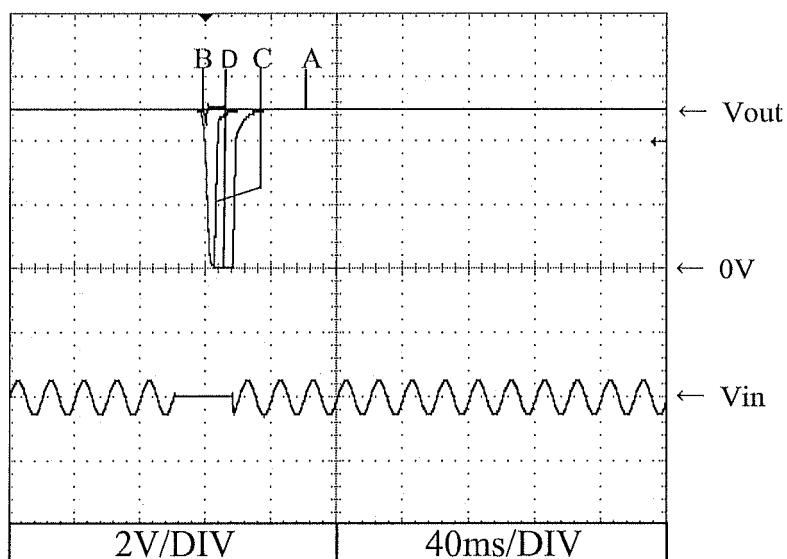
CH1:5V

A = 12ms

B = 17ms

C = 24ms

D = 35ms



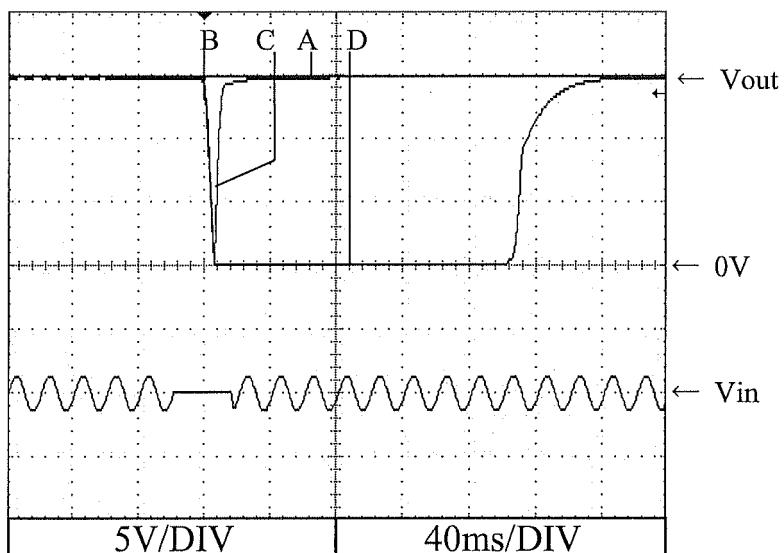
CH2:+15V

A = 12ms

B = 17ms

C = 24ms

D = 30ms



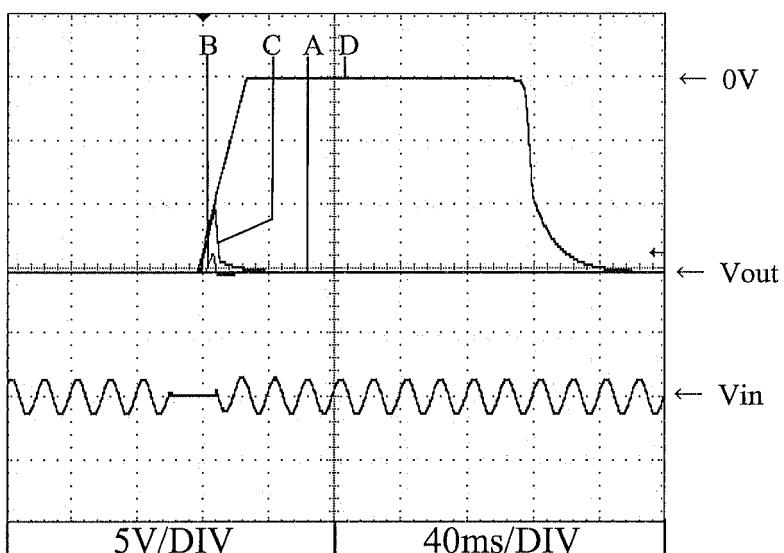
CH3: -15V

A = 16ms

B = 19ms

C = 25ms

D = 29ms



## 2.8 入力電圧瞬停特性

Response to brown out characteristics  
Model:CUT75-5FF

Conditions Vin : 200 VAC  
Iout : 100 %  
Ta : 25 °C

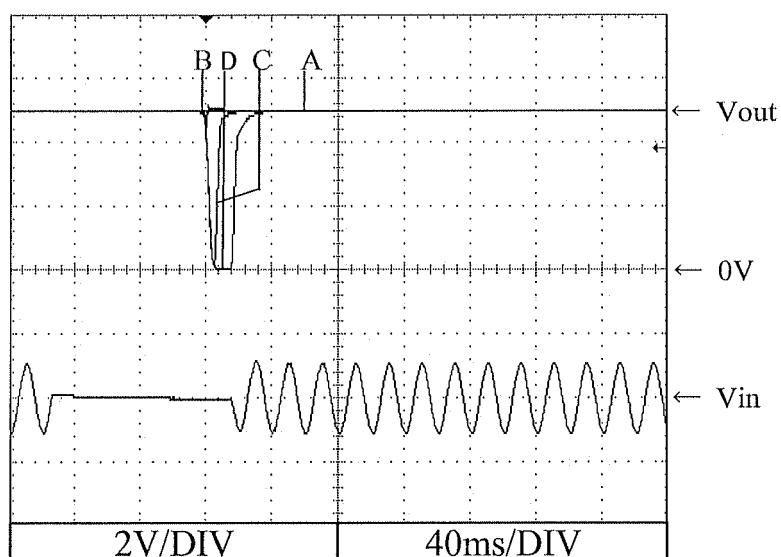
CH1:5V

A = 85ms

B = 93ms

C = 100ms

D = 110ms



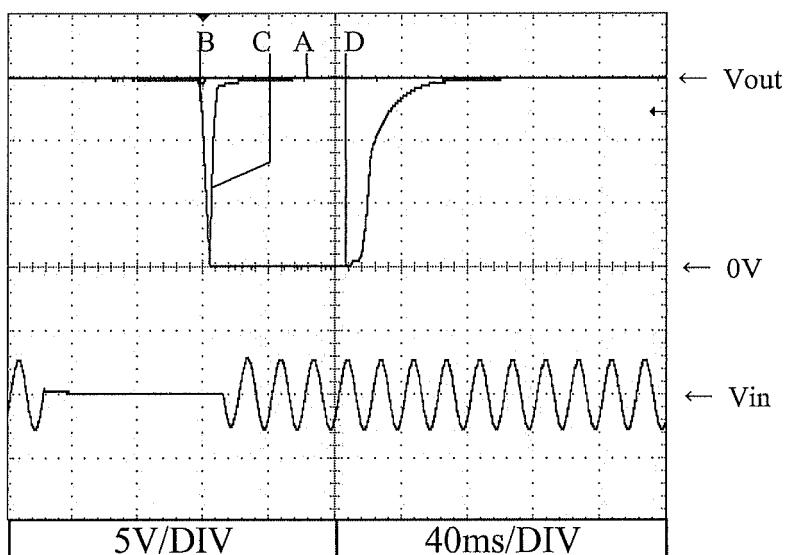
CH2:+15V

A = 82ms

B = 95ms

C = 101ms

D = 107ms



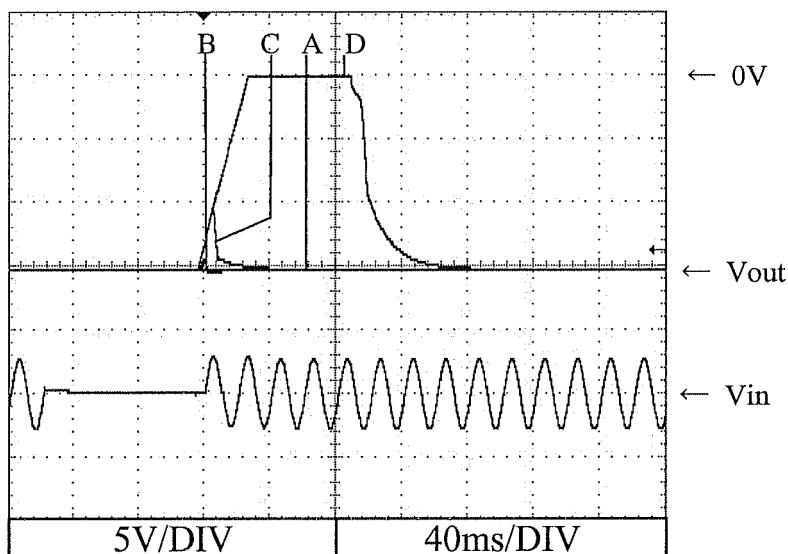
CH3: -15V

A = 88ms

B = 95ms

C = 101ms

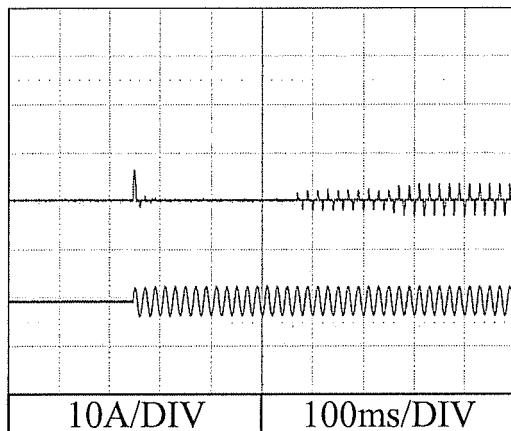
D = 105ms



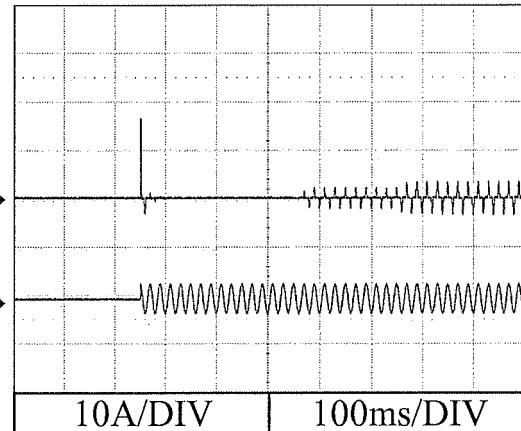
2.9 入力サージ電流（突入電流）波形  
Inrush current waveform

Conditions    Vin : 100 VAC  
                 Iout : 100 %  
                 Ta : 25 °C

Switch on phase angle of input AC voltage  
 $\phi = 0^\circ$

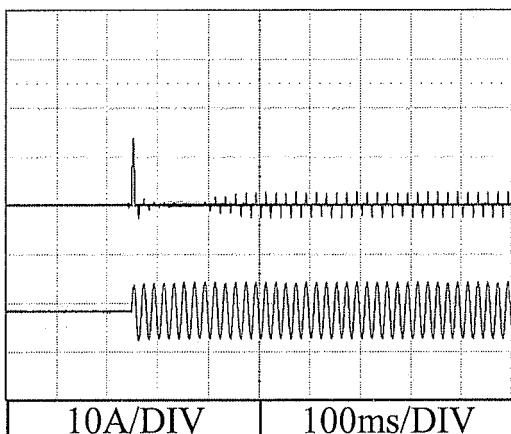


Switch on phase angle of input AC voltage  
 $\phi = 90^\circ$

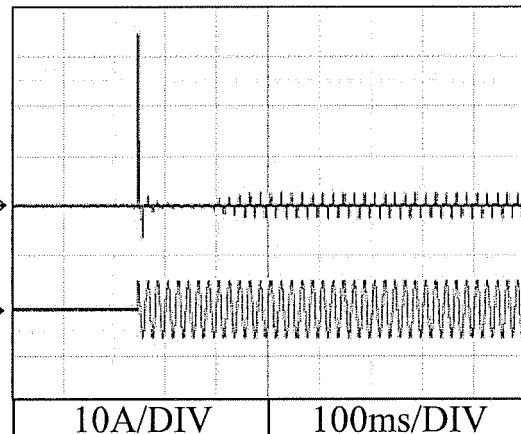


Conditions    Vin : 200 VAC  
                 Iout : 100 %  
                 Ta : 25 °C

Switch on phase angle of input AC voltage  
 $\phi = 0^\circ$



Switch on phase angle of input AC voltage  
 $\phi = 90^\circ$

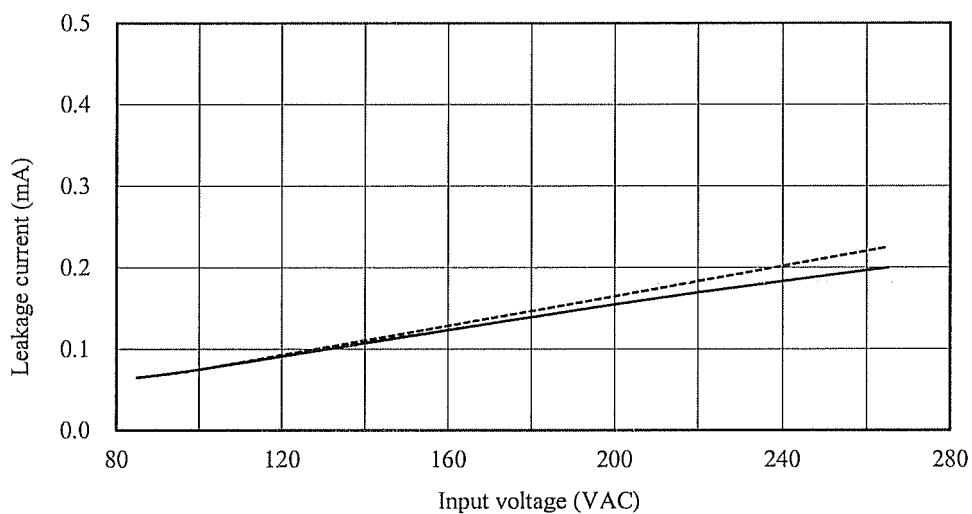


## 2.10 リーク電流特性

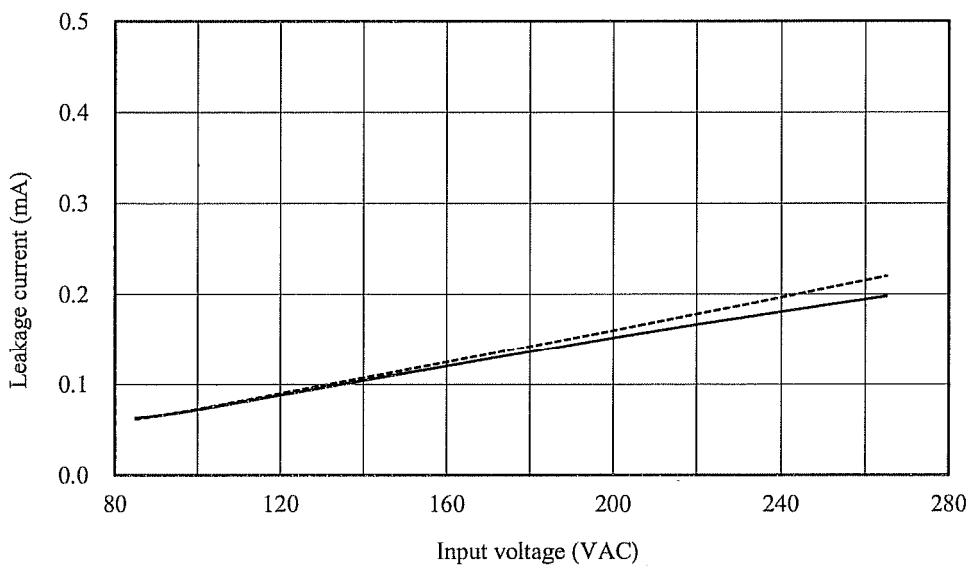
Leakage current characteristics

Conditions Iout: 0 % -----  
100 % ———  
Ta: 25 °C  
f: 50 Hz  
Equipment used: 3226 (Simpson)

L

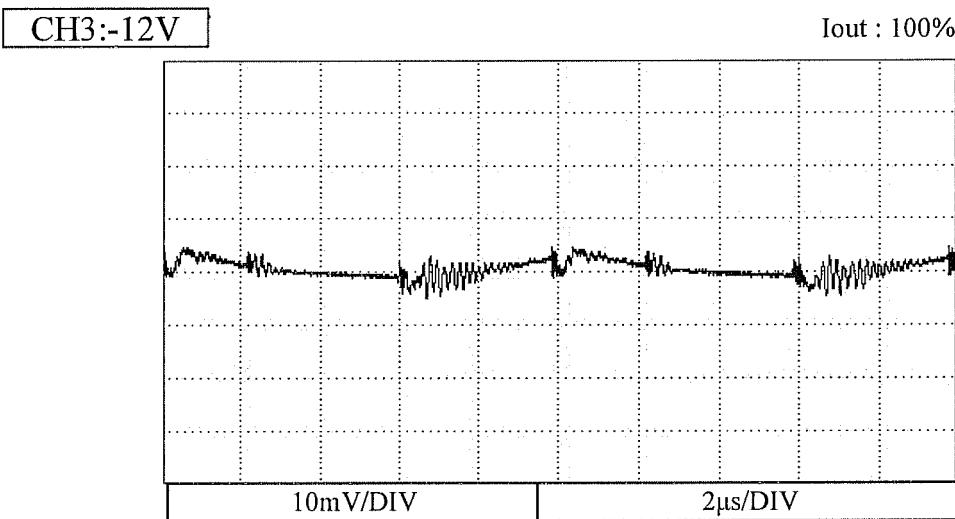
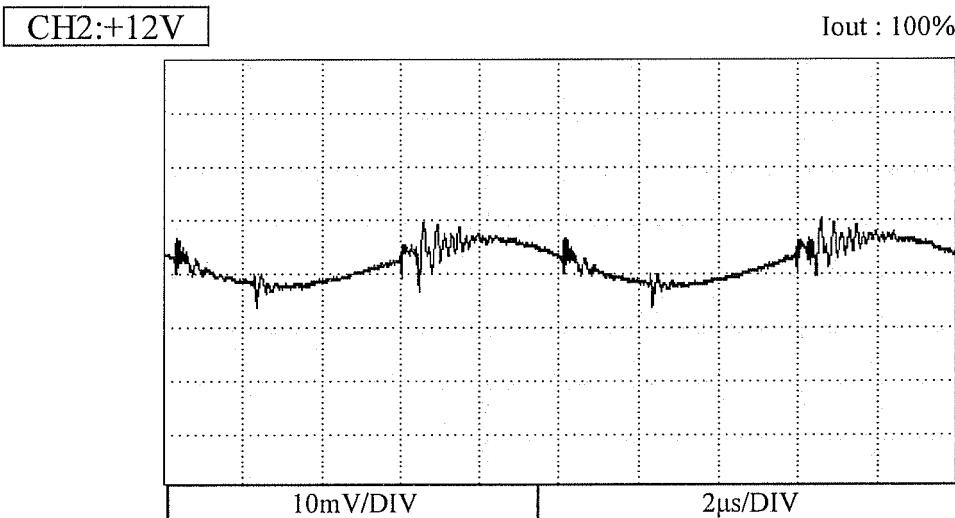
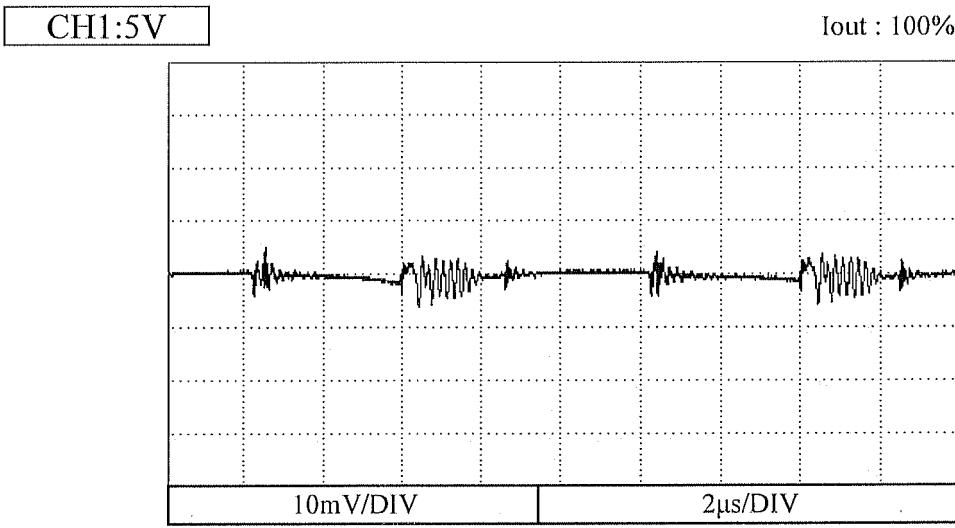


N



2.11 出力リップル、ノイズ波形  
Output ripple and noise waveform  
Model:CUT75-522

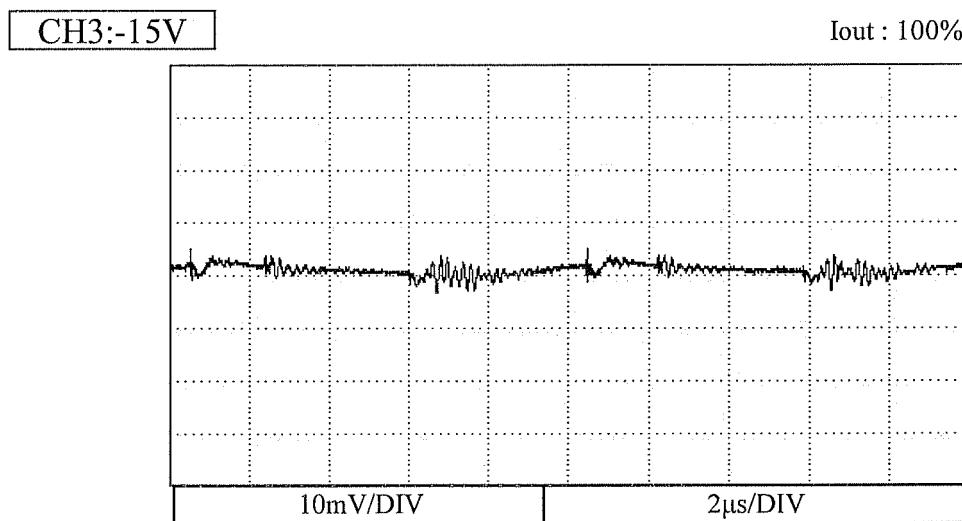
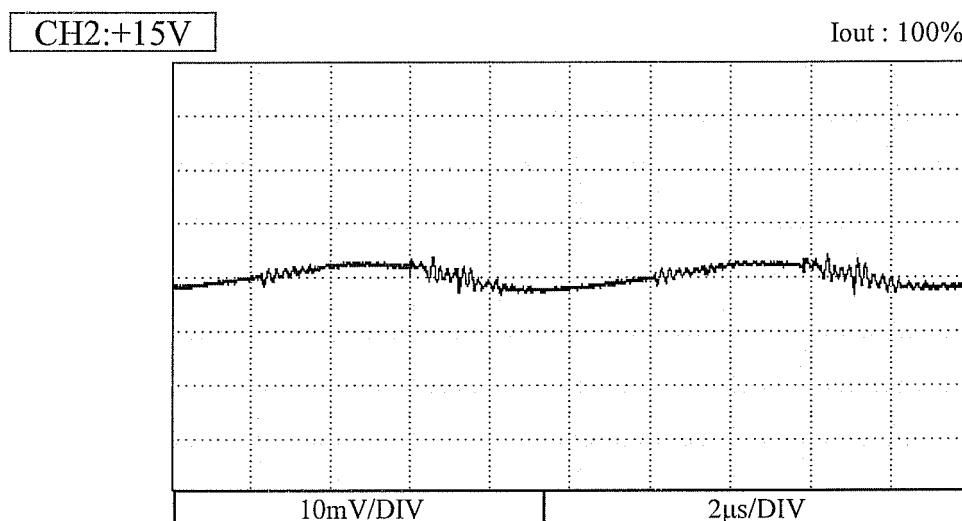
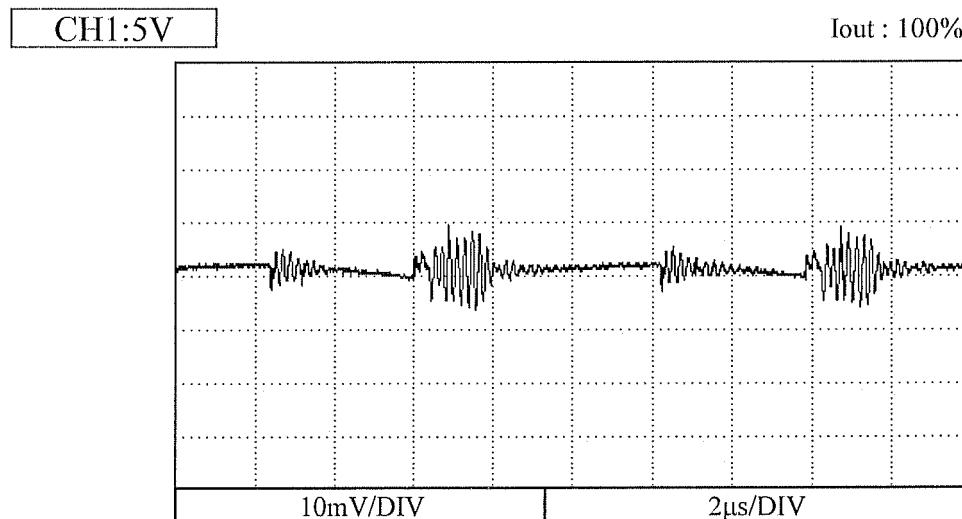
Conditions

Vin : 100VAC  
Ta : 25°C

2.11 出力リップル、ノイズ波形  
Output ripple and noise waveform  
Model:CUT75-5FF

Conditions

Vin : 100VAC  
Ta : 25°C



## 2.12 E M I 特性

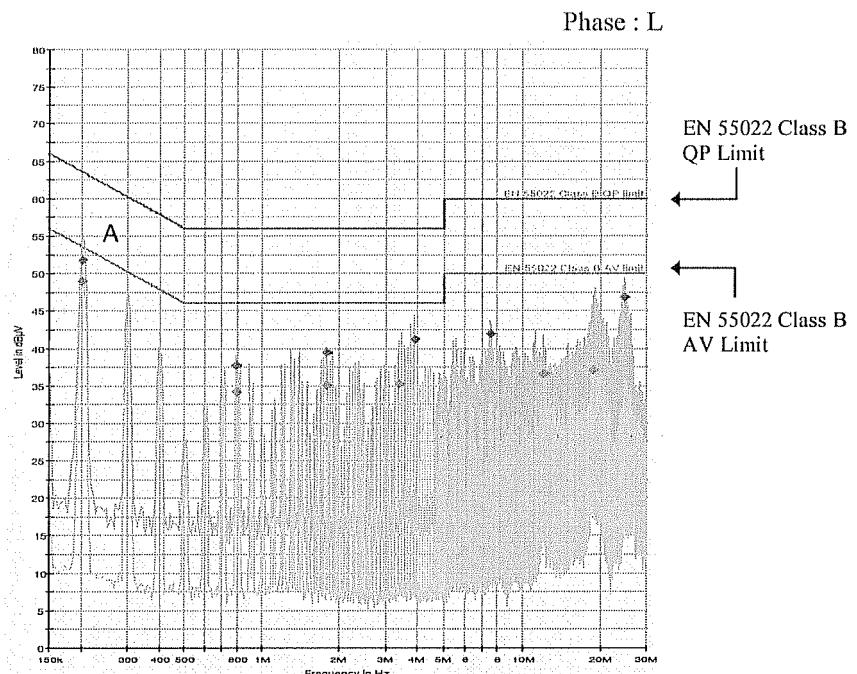
Electro-Magnetic Interference characteristics  
Model:CUT75-522

Conditions      Vin : 230 VAC  
                  Iout : 100 %  
                  Ta : 25 °C

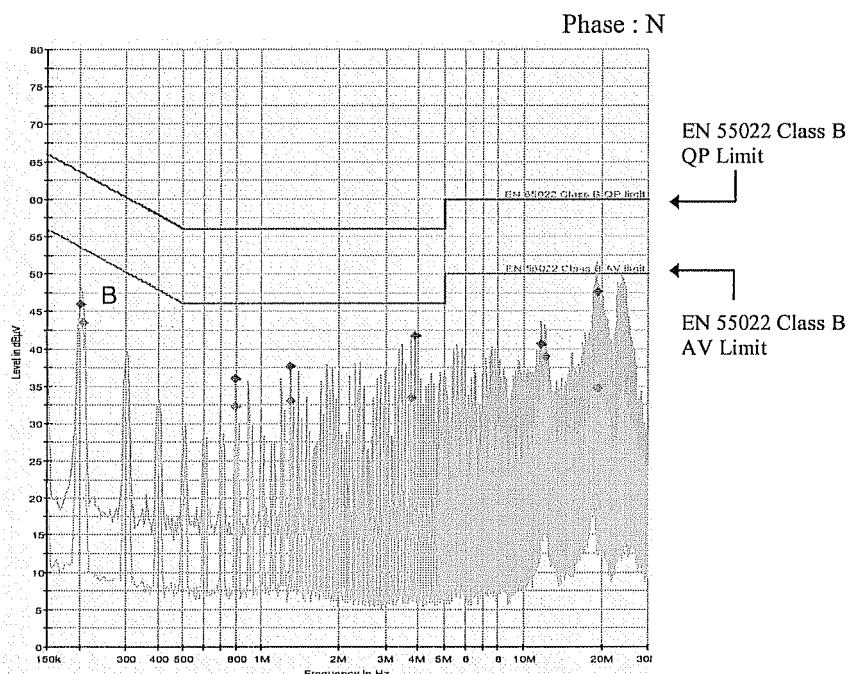
雜音端子電壓

Conducted Emission

| Point A<br>(199.5kHz) |                 |                   |
|-----------------------|-----------------|-------------------|
| Ref.<br>Data          | Limit<br>(dBuV) | Measure<br>(dBuV) |
| QP                    | 63.6            | 51.8              |
| AV                    | 53.6            | 49.0              |



| Point B<br>(199.5kHz) |                 |                   |
|-----------------------|-----------------|-------------------|
| Ref.<br>Data          | Limit<br>(dBuV) | Measure<br>(dBuV) |
| QP                    | 63.6            | 45.9              |
| AV                    | 53.6            | 43.6              |



EN55011-B,VCCI-B,FCC-Bの限界値はEN55022 class Bの限界値と同じ  
Limit of EN55011-B,VCCI-B,FCC-B are same as its EN55022 class B.

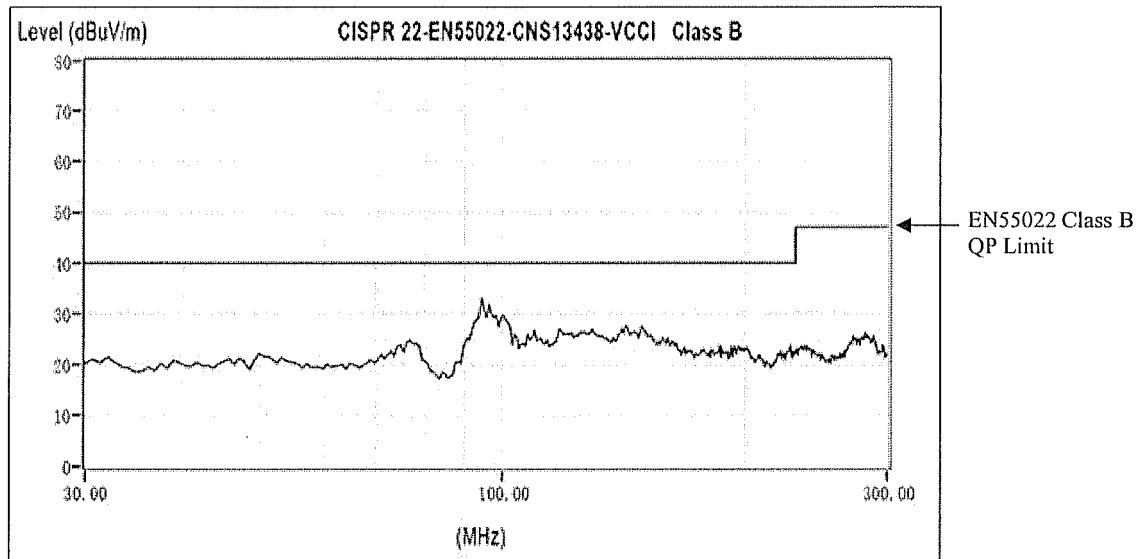
## 2.12 E M I 特性

Electro-Magnetic Interference characteristics  
Model:CUT75-522

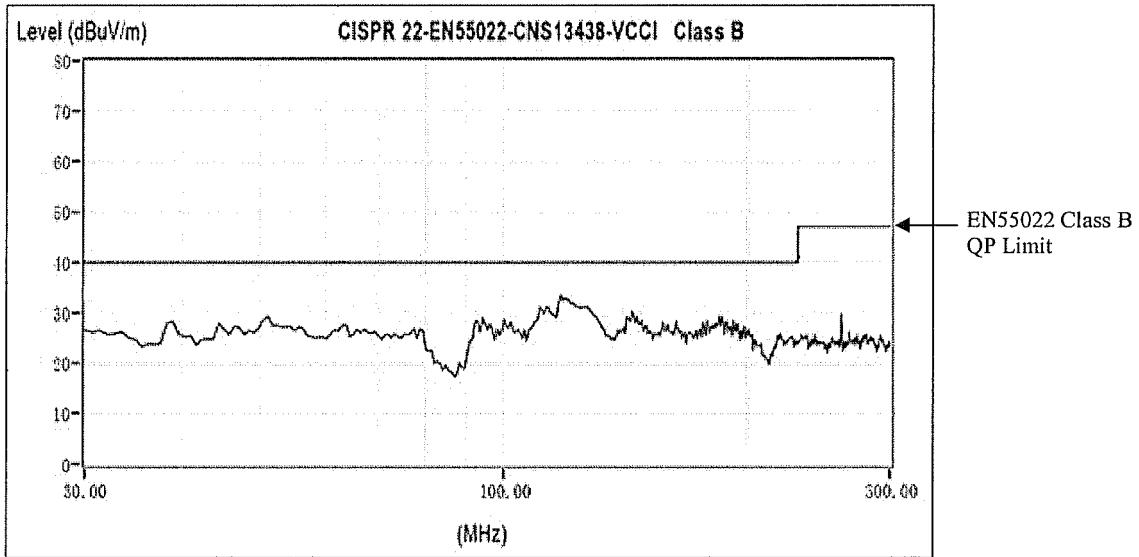
Conditions      Vin: 230VAC  
                  Io: 100%  
                  Ta: 25°C

雜音電界強度  
Radiated Emission

Polarity: Horizontal



Polarity: Vertical



## 2.12 EMI 特性

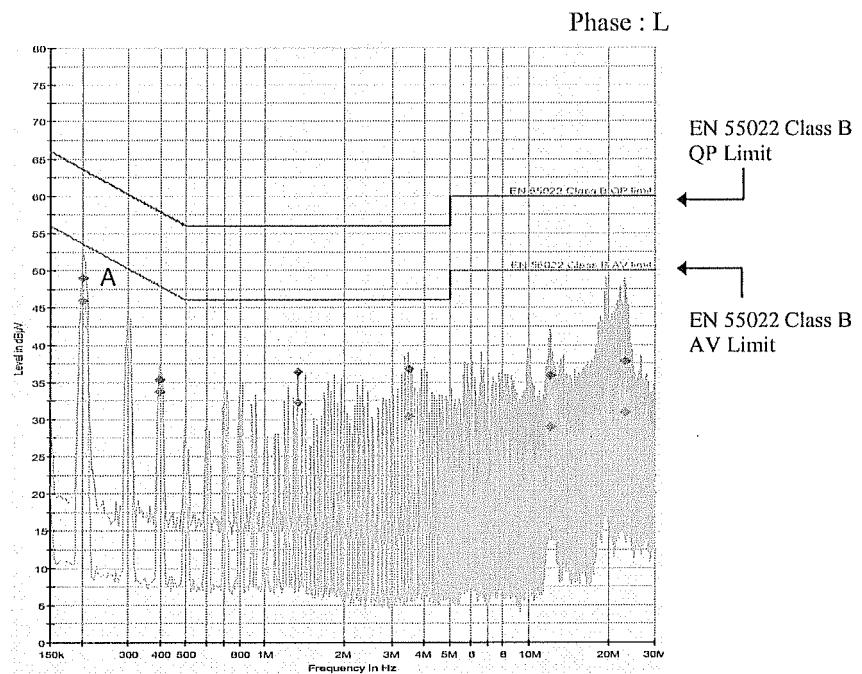
Electro-Magnetic Interference characteristics  
Model:CUT75-5FF

Conditions      Vin : 230 VAC  
                  Iout : 100 %  
                  Ta : 25 °C

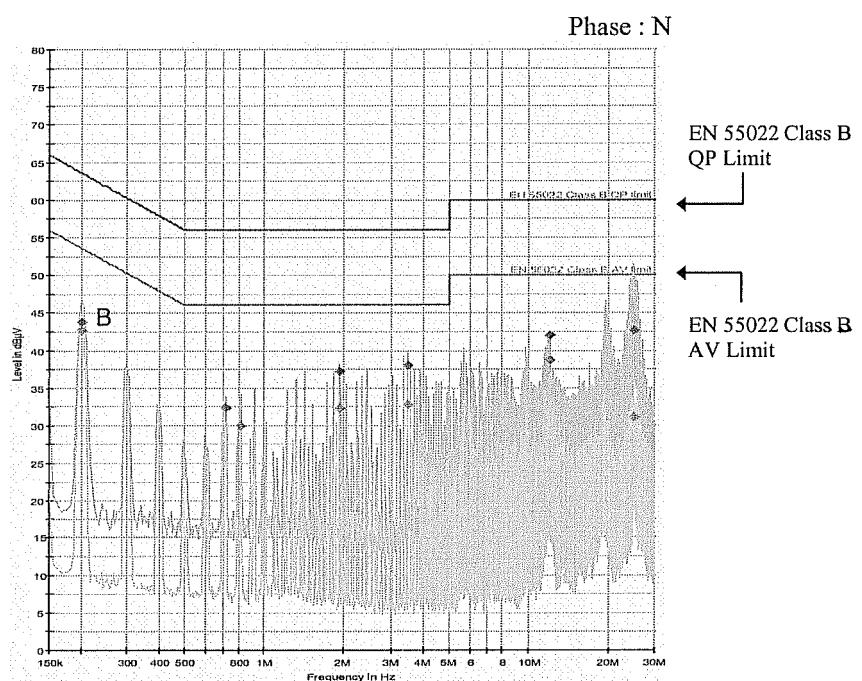
雜音端子電壓

Conducted Emission

| Point A<br>(199.5kHz) |                 |                   |
|-----------------------|-----------------|-------------------|
| Ref.<br>Data          | Limit<br>(dBuV) | Measure<br>(dBuV) |
| QP                    | 63.6            | 49.0              |
| AV                    | 53.6            | 45.9              |



| Point B<br>(199.5kHz) |                 |                   |
|-----------------------|-----------------|-------------------|
| Ref.<br>Data          | Limit<br>(dBuV) | Measure<br>(dBuV) |
| QP                    | 63.6            | 43.8              |
| AV                    | 53.6            | 42.6              |



EN55011-B,VCCI-B,FCC-Bの限界値はEN55022 class Bの限界値と同じ  
Limit of EN55011-B,VCCI-B,FCC-B are same as its EN55022 class B.

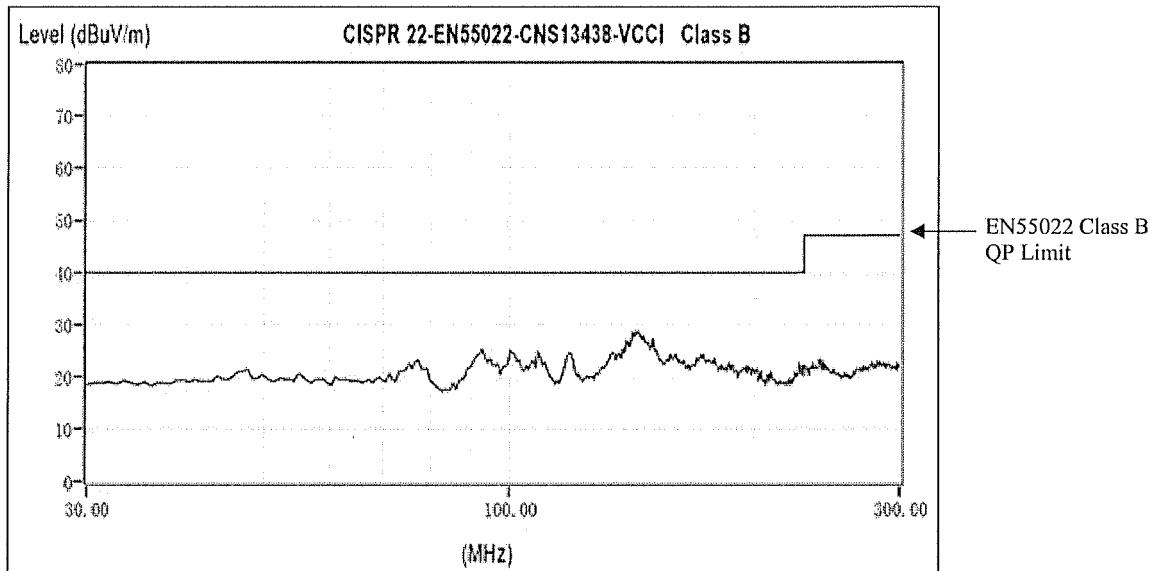
## 2.12 E M I 特性

Electro-Magnetic Interference characteristics  
Model:CUT75-5FF

Conditions      Vin: 230VAC  
                  Io: 100%  
                  Ta: 25°C

雜音電界強度  
Radiated Emission

Polarity: Horizontal



Polarity: Vertical

