

CUT100

EVALUATION DATA

型式データ

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使用記号 Terminology used

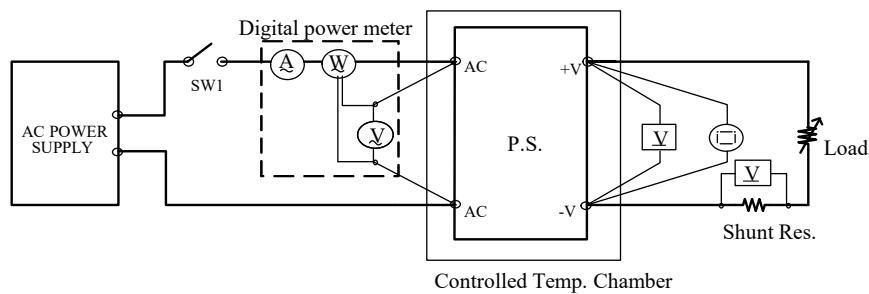
入力電流高調波	定義	Definition
Vin		入力電圧 Input voltage
Vout		出力電圧 Output voltage
Iin		入力電流 Input current
Iout		出力電流 Output current
Ta		周囲温度 Ambient temperature
f		周波数 Frequency

1. 測定方法 Evaluation Method

1.1 測定回路 Circuit used for determination

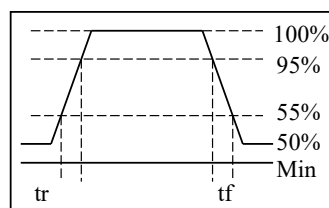
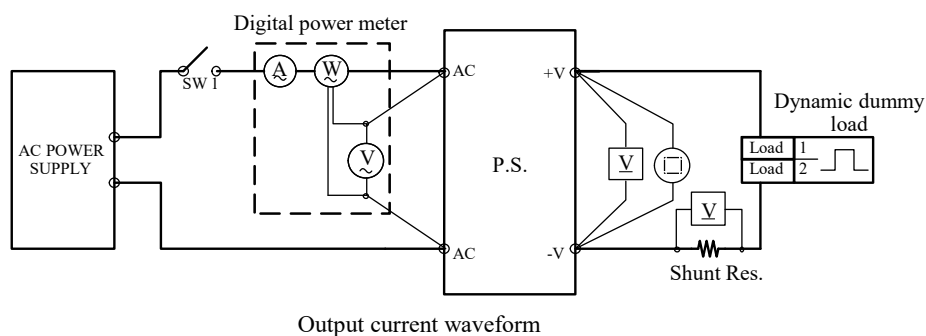
測定回路1 Circuit 1 used for determination

- ・ 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



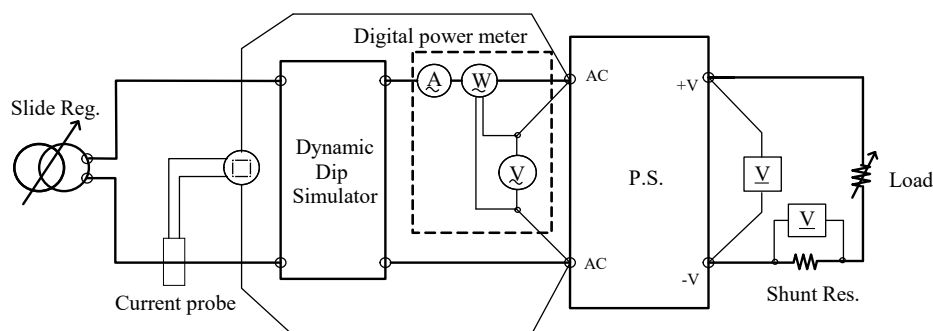
測定回路2 Circuit 2 used for determination

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



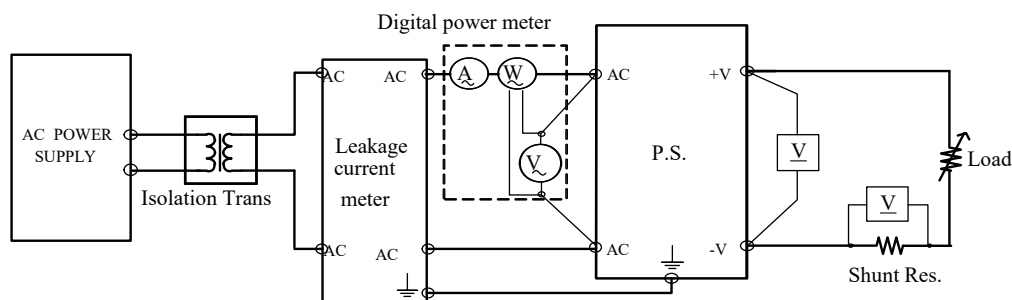
測定回路3 Circuit 3 used for determination

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



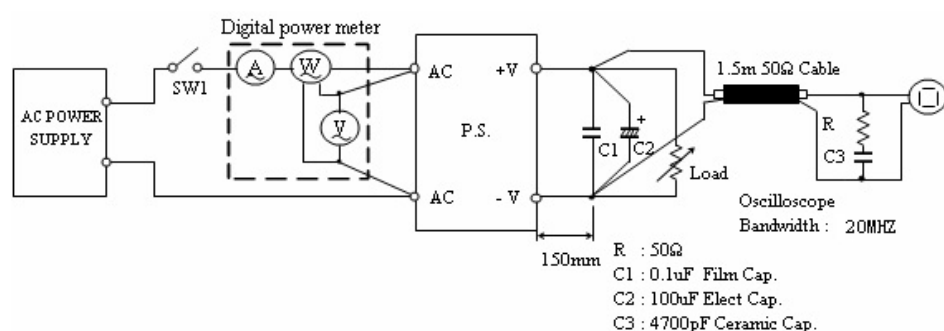
測定回路4 Circuit 4 used for determination

- ・リーク電流特性 Leakage current characteristics



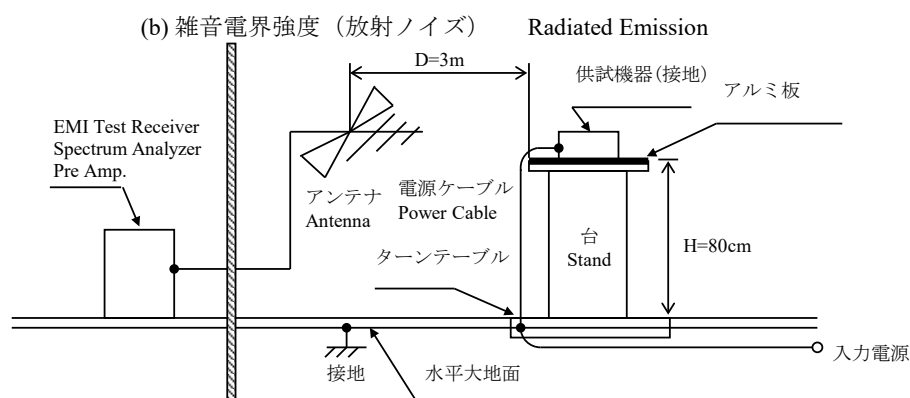
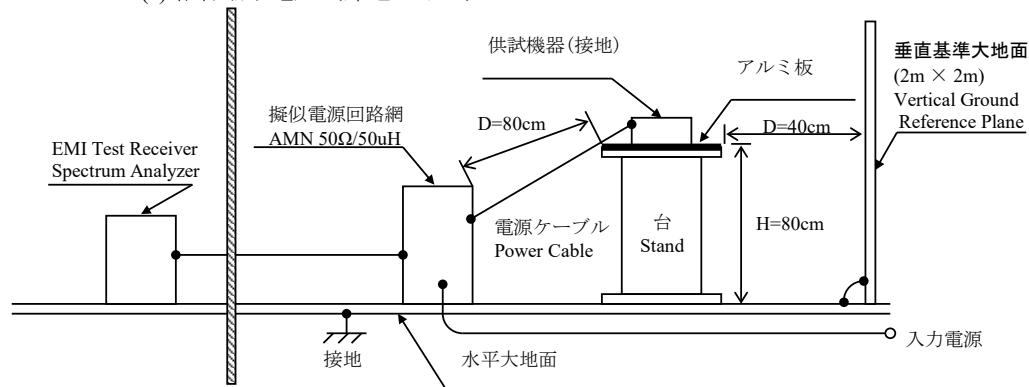
測定回路5 Circuit 5 used for determination

- | | |
|---------------|----------------------------------|
| ・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) 雑音端子電圧 (帰還ノイズ) Conducted Emission



1.2 使用測定機器 List of equipment used

	EQUIPMENT USED	MANUFACTURER	MODEL NO.
1	DIGITAL STORAGE OSCILLOSCOPE	YOKOGAWA ELECT.	DLM2054
2	DIGITAL MULTIMETER	AGILENT	34970A
3	DIGITAL POWER METER	YOKOGAWA ELECT.	WT210
4	CURRENT PROBE	YOKOGAWA ELECT.	701933
5	POWER SUPPLY	YOKOGAWA ELECT.	700938
6	DYNAMIC DUMMY LOAD	CHROMA	63030/63610/63640
7	AC SOURCE	KIKUSUI	PCR2000L
8	LEAKAGE CURRENT METER	SIMPSON	3226
9	HARMONIC CURRENT ANALYZER	KIKUSUI	KHA1000
10	CONTROLLED TEMP. CHAMBER	TABAI-ESPEC	63203
11	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESR3
12	LISN	ROHDE & SCHWARZ	ENV216
13	BROADBAND ANTENNA	SCHWARZBECK	VULB9163
14	LINE SUG SIMULATOR	TAKAMISAWA	PSA-210

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: CUT100-522

CH1: 5V 1. Regulation - line and load Condition Ta: 25 °C

Iout \ Vin	85VAC	100VAC	230VAC	265VAC	line regulation	
0%	5.031V	5.032V	5.032V	5.032V	1mV	0.020%
50%	5.031V	5.032V	5.032V	5.032V	1mV	0.020%
100%	5.031V	5.031V	5.031V	5.031V	0mV	0.000%
load regulation	0mV	1mV	1mV	1mV		
	0.000%	0.020%	0.020%	0.020%		

2. Temperature drift

Conditions Vin: 100 VAC
Iout: 100 %

Ta	-20°C	+25°C	+50°C	temperature stability	
Vout	5.008V	5.031V	5.035V	27mV	0.008%

CH2: 12V 1. Regulation - line and load Condition Ta: 25 °C

Iout \ Vin	85VAC	100VAC	230VAC	265VAC	line regulation	
0%	12.065V	12.068V	12.068V	12.068V	3mV	0.025%
50%	11.814V	11.814V	11.814V	11.813V	1mV	0.008%
100%	11.726V	11.725V	11.725V	11.725V	1mV	0.008%
load regulation	339mV	343mV	343mV	343mV		
	2.825%	2.858%	2.858%	2.858%		

2. Temperature drift

Conditions Vin: 100 VAC
Iout: 100 %

Ta	-20°C	+25°C	+50°C	temperature stability	
Vout	11.750V	11.725V	11.693V	57mV	0.007%

CH3: -12V 1. Regulation - line and load Condition Ta: 25 °C

Iout \ Vin	85VAC	100VAC	230VAC	265VAC	line regulation	
0%	-12.387V	-12.389V	-12.390V	-12.390V	3mV	-0.025%
50%	-12.246V	-12.248V	-12.249V	-12.250V	4mV	-0.033%
100%	-12.206V	-12.207V	-12.207V	-12.207V	1mV	-0.008%
load regulation	181mV	182mV	183mV	183mV		
	-1.508%	-1.517%	-1.525%	-1.525%		

2. Temperature drift

Conditions Vin: 100 VAC
Iout: 100 %

Ta	-20°C	+25°C	+50°C	temperature stability	
Vout	-12.172V	-12.207V	-12.202V	35mV	-0.004%

3. Start up voltage and Drop out voltage

Conditions Ta: 25 °C
Iout: 100 %

Start up voltage (Vin)	76VAC
Drop out voltage (Vin)	65VAC

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: CUT100-5FF

CH1: 5V 1. Regulation - line and load Condition Ta : 25 °C

Iout \ Vin	85VAC	100VAC	230VAC	265VAC	line regulation	
0%	5.028V	5.029V	5.029V	5.029V	1mV	0.020%
50%	5.028V	5.028V	5.029V	5.029V	1mV	0.020%
100%	5.027V	5.027V	5.028V	5.028V	1mV	0.020%
load regulation	1mV	2mV	1mV	1mV		
	0.020%	0.040%	0.020%	0.020%		

2. Temperature drift

Conditions Vin : 100 VAC
Iout : 100 %

Ta	-20°C	+25°C	+50°C	temperature stability	
Vout	5.011V	5.027V	5.028V	17mV	0.005%

CH2: 15V 1. Regulation - line and load Condition Ta : 25 °C

Iout \ Vin	85VAC	100VAC	230VAC	265VAC	line regulation	
0%	14.974V	14.978V	14.978V	14.978V	4mV	0.027%
50%	14.739V	14.740V	14.739V	14.739V	1mV	0.007%
100%	14.640V	14.640V	14.640V	14.641V	1mV	0.007%
load regulation	334mV	338mV	338mV	337mV		
	2.227%	2.253%	2.253%	2.247%		

2. Temperature drift

Conditions Vin : 100 VAC
Iout : 100 %

Ta	-20°C	+25°C	+50°C	temperature stability	
Vout	14.639V	14.640V	14.635V	5mV	0.0005%

CH3: -15V 1. Regulation - line and load Condition Ta : 25 °C

Iout \ Vin	85VAC	100VAC	230VAC	265VAC	line regulation	
0%	-15.336V	-15.335V	-15.335V	-15.334V	2mV	-0.013%
50%	-15.142V	-15.144V	-15.145V	-15.146V	4mV	-0.027%
100%	-15.083V	-15.085V	-15.086V	-15.087V	4mV	-0.027%
load regulation	253mV	250mV	249mV	247mV		
	-1.687%	-1.667%	-1.660%	-1.647%		

2. Temperature drift

Conditions Vin : 100 VAC
Iout : 100 %

Ta	-20°C	+25°C	+50°C	temperature stability	
Vout	-15.043V	-15.085V	-15.088V	45mV	-0.004%

3. Start up voltage and Drop out voltage

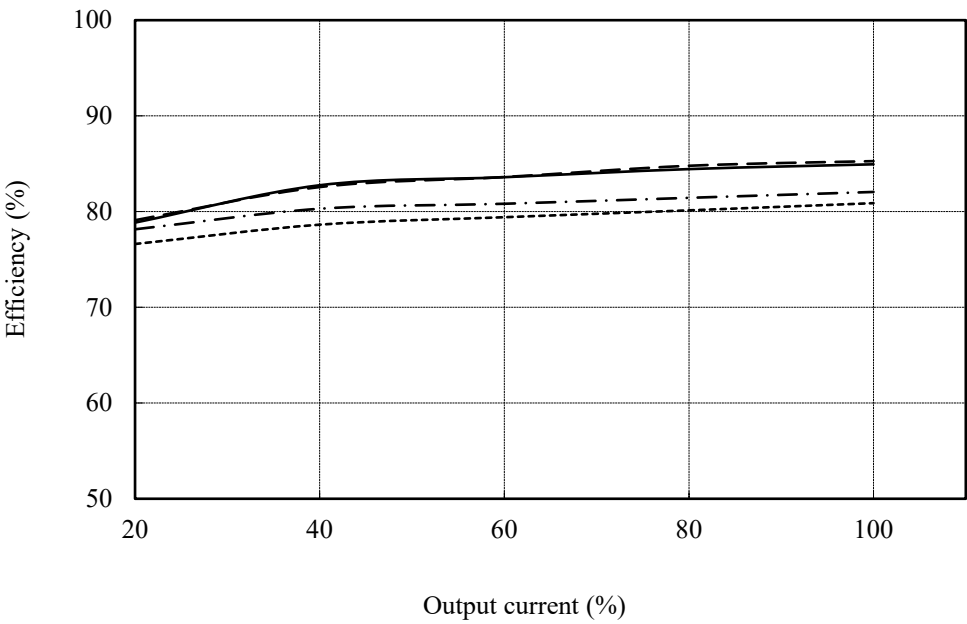
Conditions Ta : 25 °C
Iout : 100 %

Start up voltage (Vin)	76VAC
Drop out voltage (Vin)	65VAC

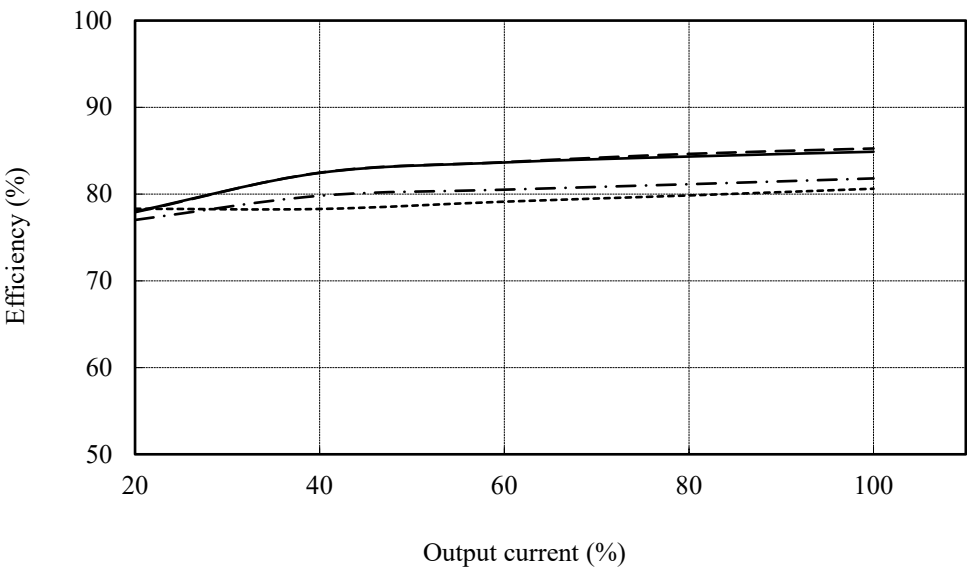
(2) 効率対出力電流

Efficiency vs. Output current
Model: CUT100-522

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



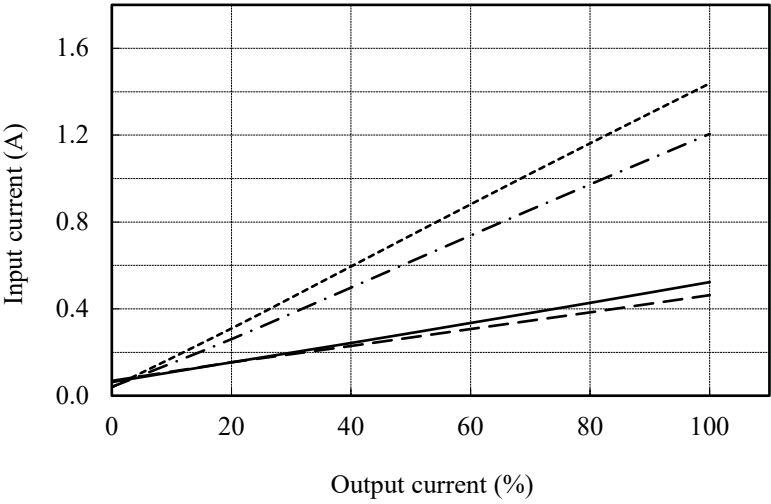
Model: CUT100-5FF



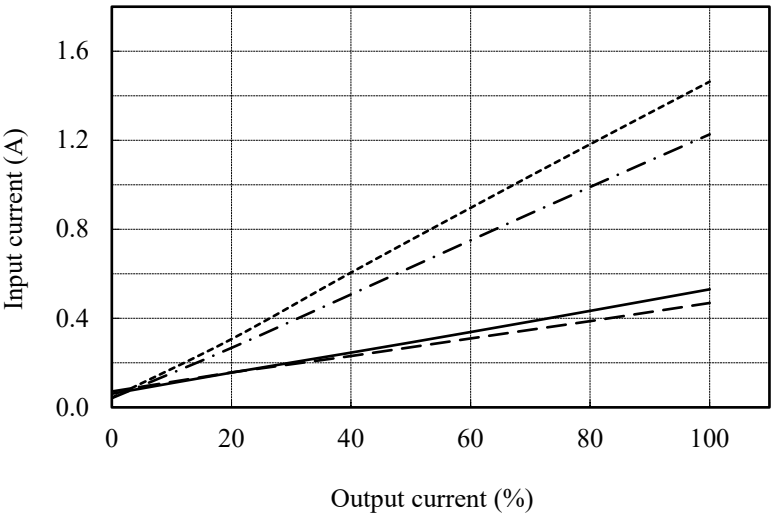
(3) 入力電流対出力電流

Input current vs. Output current
Model: CUT100-522

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



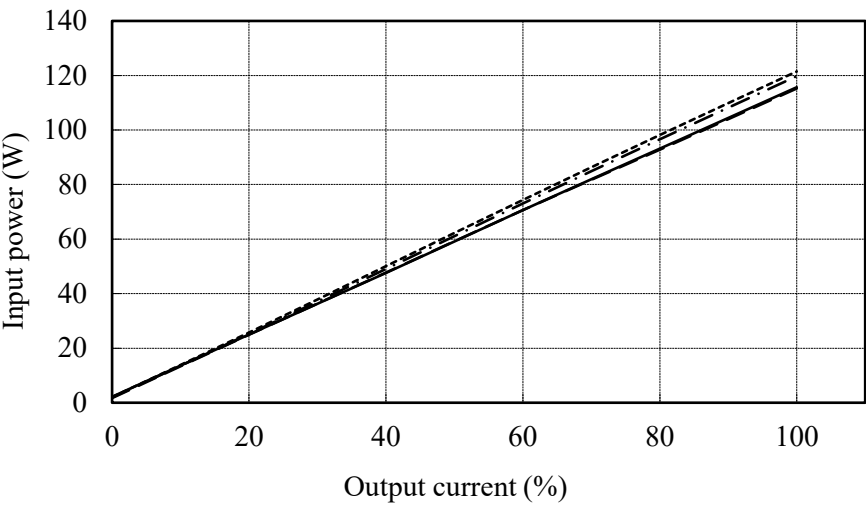
Model: CUT100-5FF



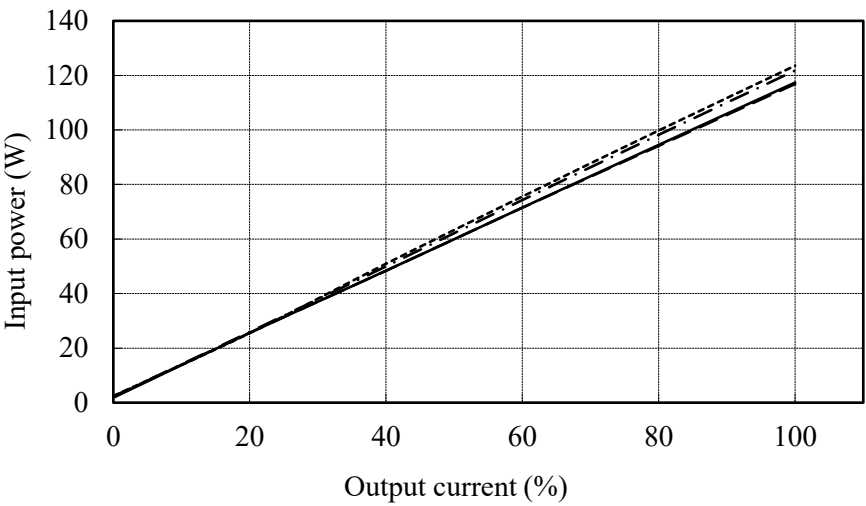
(4) 入力電力対出力電流

Input power vs. Output current
Model: CUT100-522

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



Model: CUT100-5FF



2.2 過電流保護特性

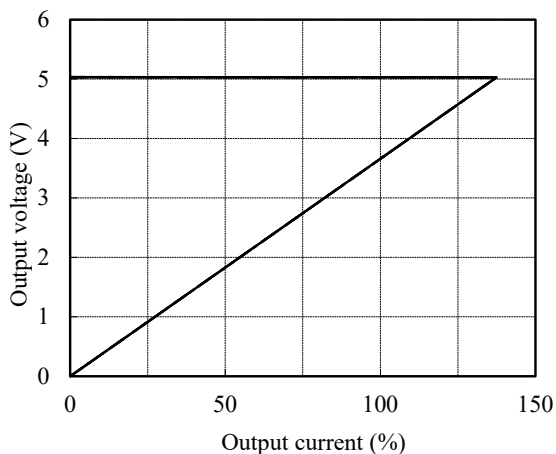
Over current protection (OCP) characteristics

Model: CUT100-522

Conditions Vin : 85 VAC -----
 100 VAC -----
 230 VAC -----
 265 VAC -----

CH1:5V

Ta: 25 °C

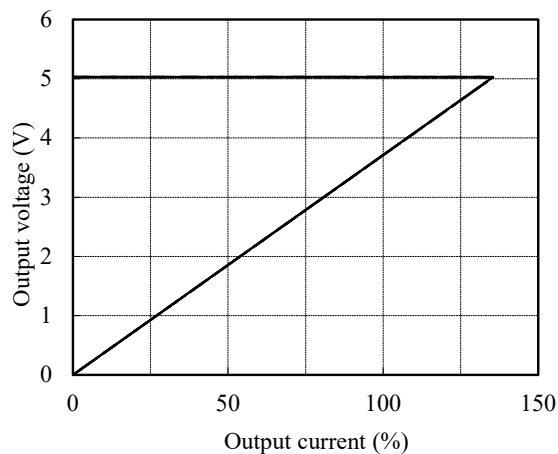


Model: CUT100-5FF

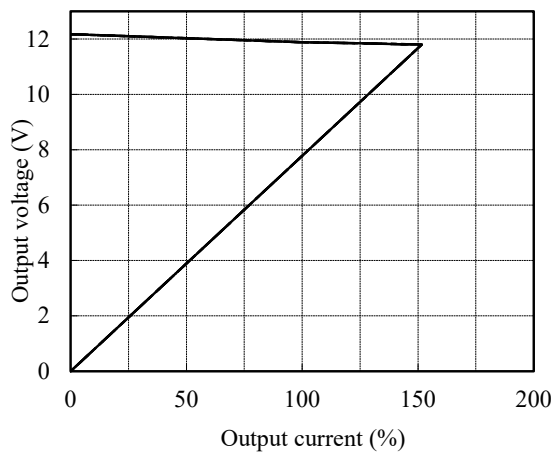
Conditions Vin : 85 VAC -----
 100 VAC -----
 230 VAC -----
 265 VAC -----

CH1:5V

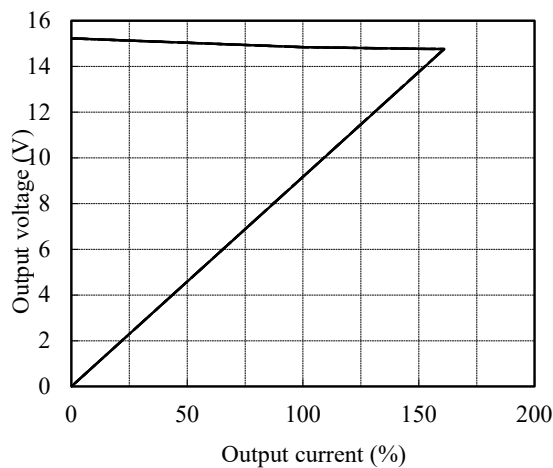
Ta: 25 °C



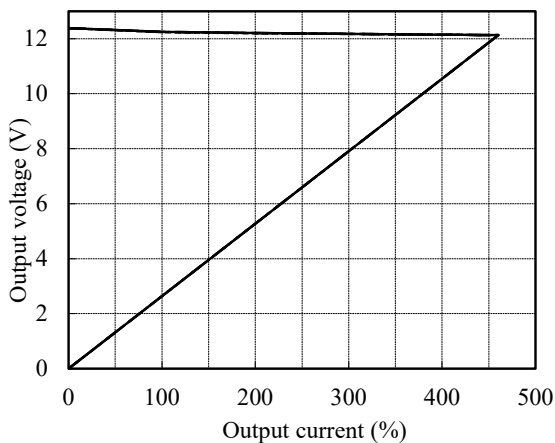
CH2: +12V



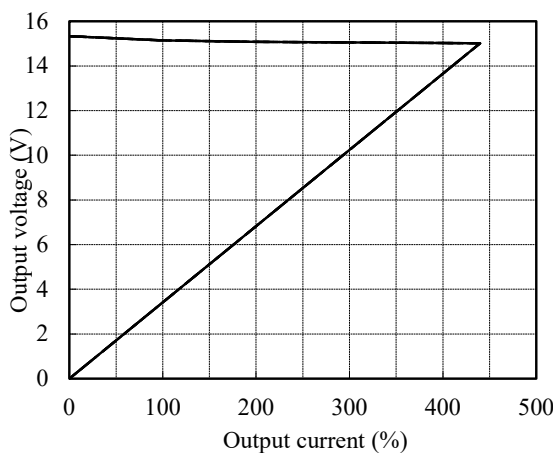
CH2: +15V



CH3: -12V



CH3: -15V

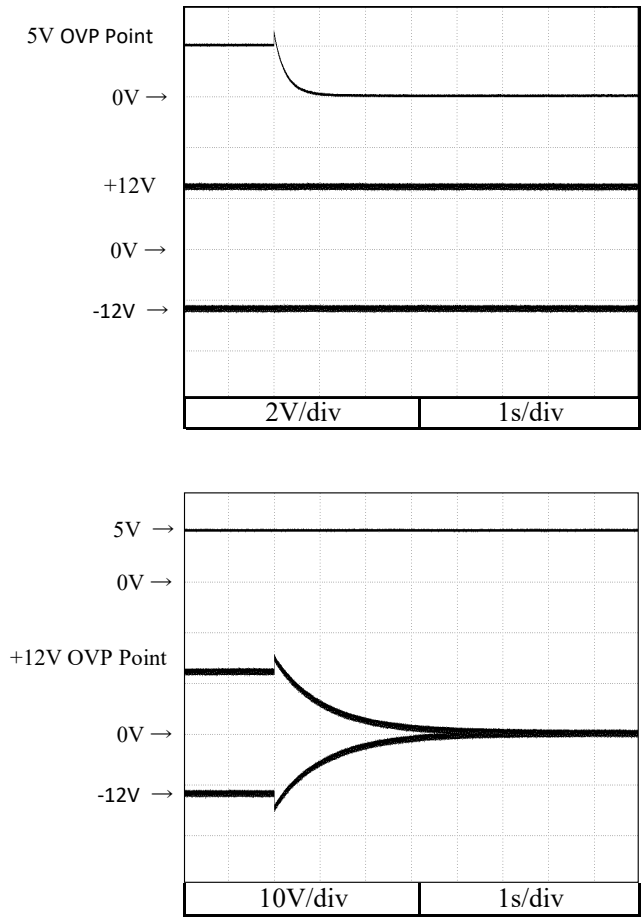


2.3 過電圧保護特性

Over voltage protection (OVP) characteristics

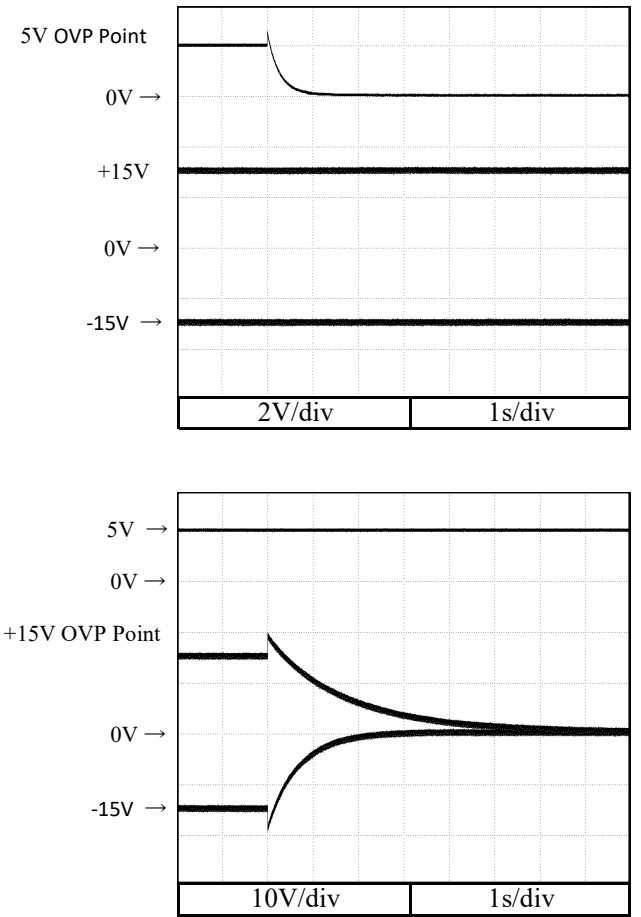
Model: CUT100-522

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



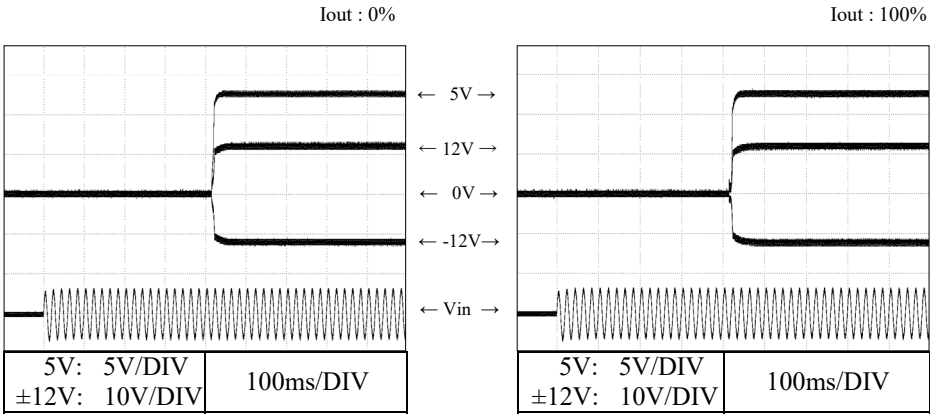
Model: CUT100-5FF

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

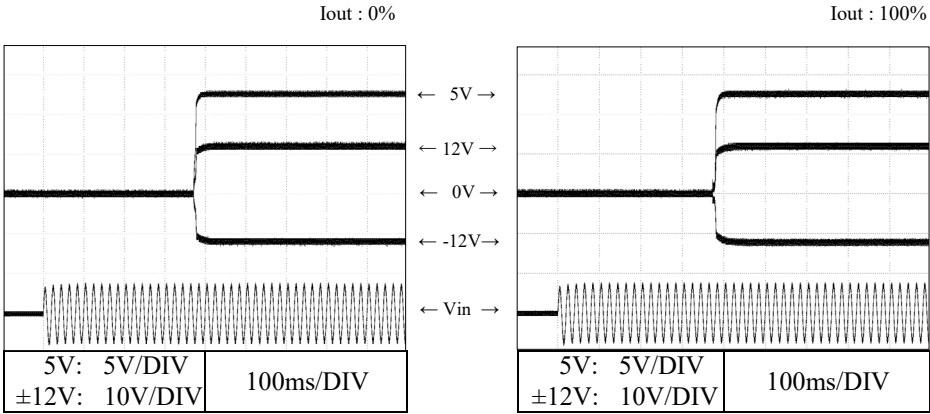


2.4 出力立ち上がり特性
Output rise characteristics
Model: CUT100-522

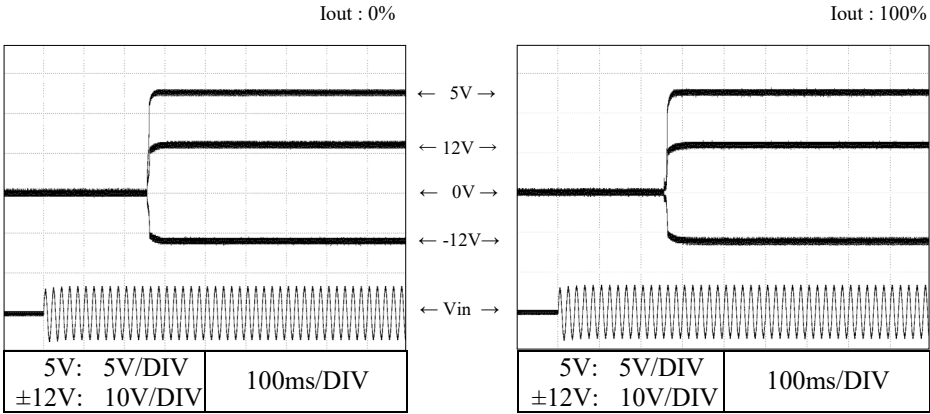
Conditions Ta : 25°C
Vin : 85VAC
Iout : 100%



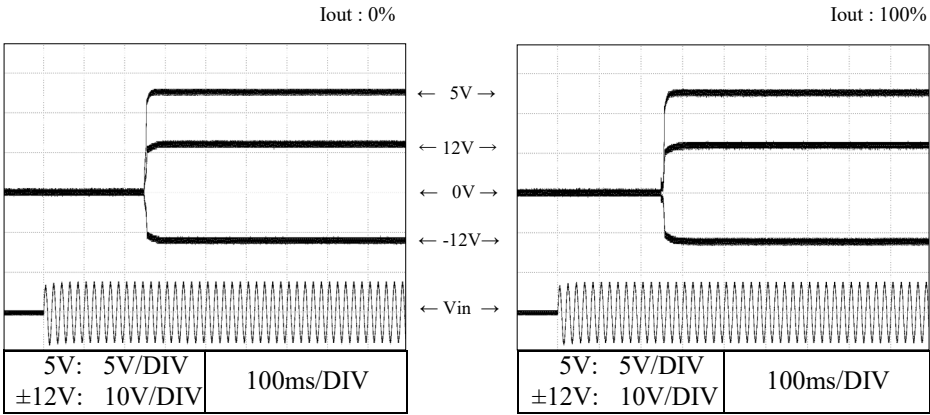
Vin : 100VAC
Iout : 100%



Vin : 230VAC
Iout : 100%

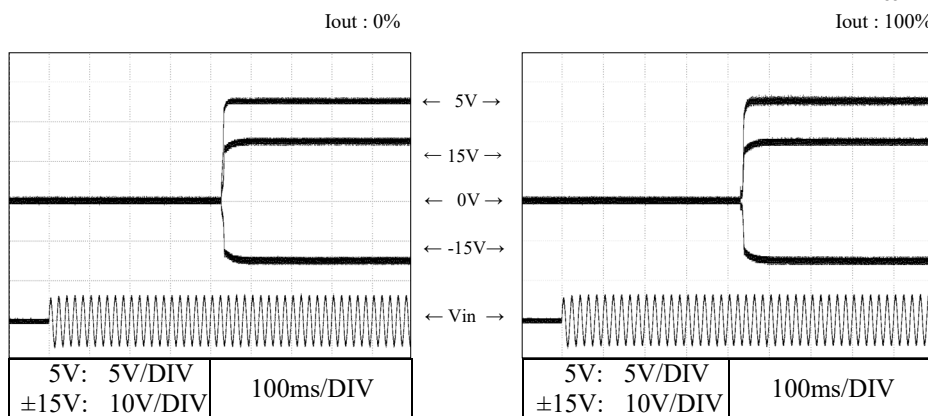


Vin : 265VAC
Iout : 100%

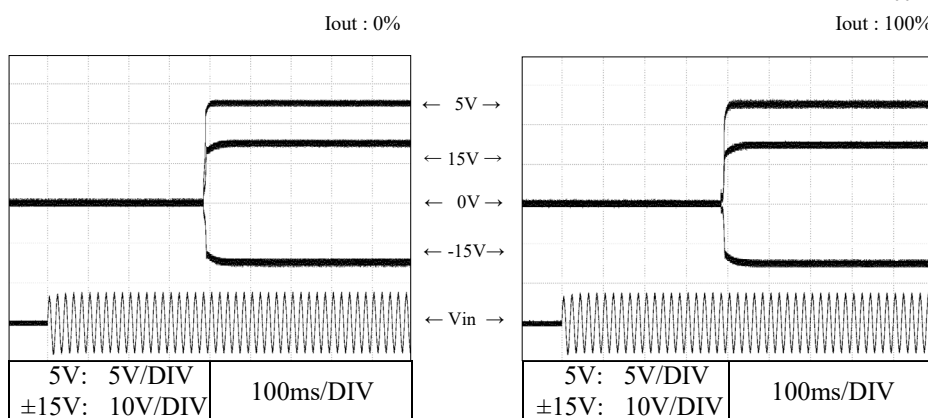


2.4 出力立ち上がり特性
 Output rise characteristics
 Model: CUT100-5FF

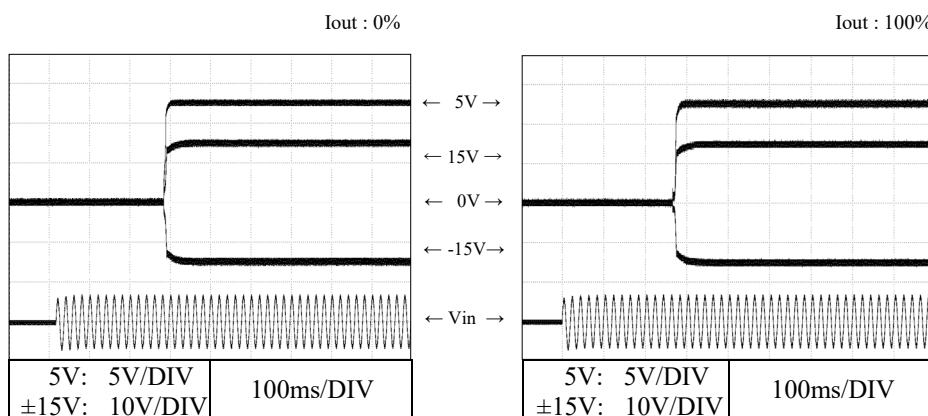
Conditions Ta : 25°C
 Vin : 85VAC
 Iout : 100%



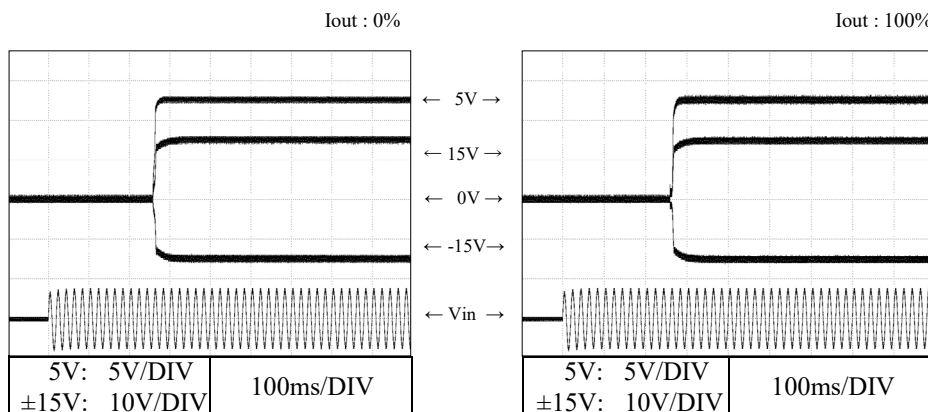
Vin : 100VAC
 Iout : 100%



Vin : 230VAC
 Iout : 100%

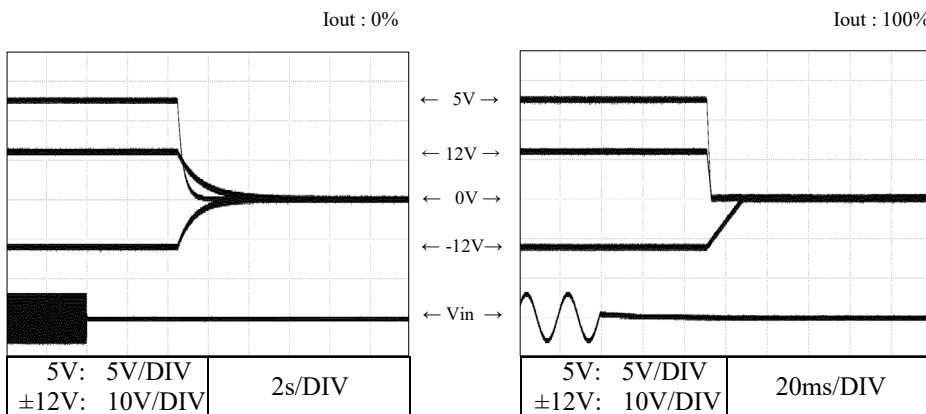


Vin : 265VAC
 Iout : 100%

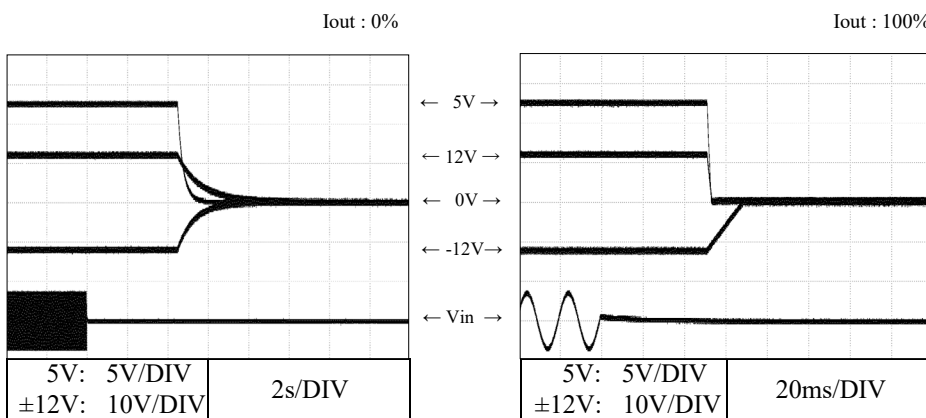


2.5 出力立ち下がり特性
Output fall characteristics
Model: CUT100-522

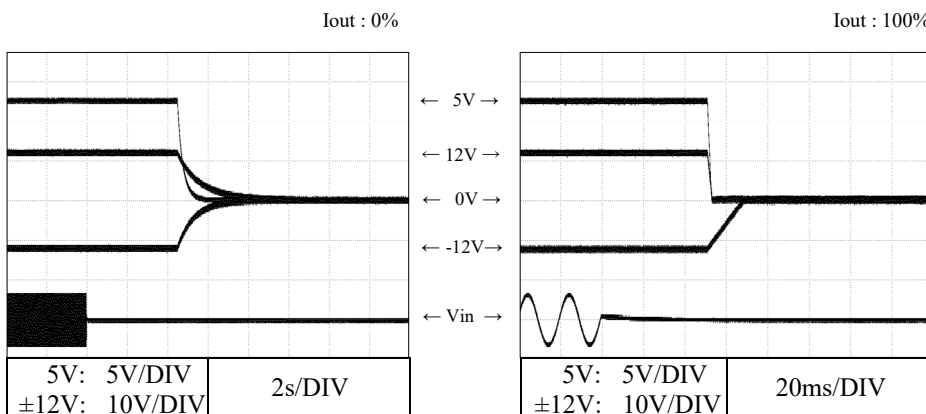
Conditions Ta : 25°C
Vin : 85VAC
Iout : 100%



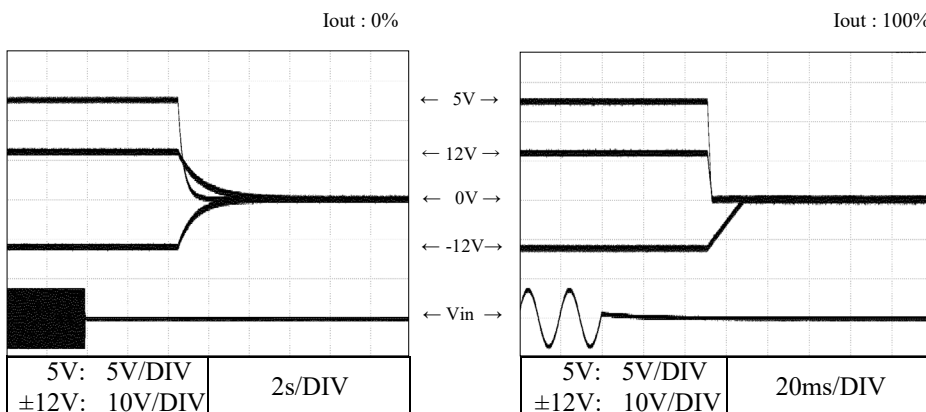
Vin : 100VAC
Iout : 100%



Vin : 230VAC
Iout : 100%

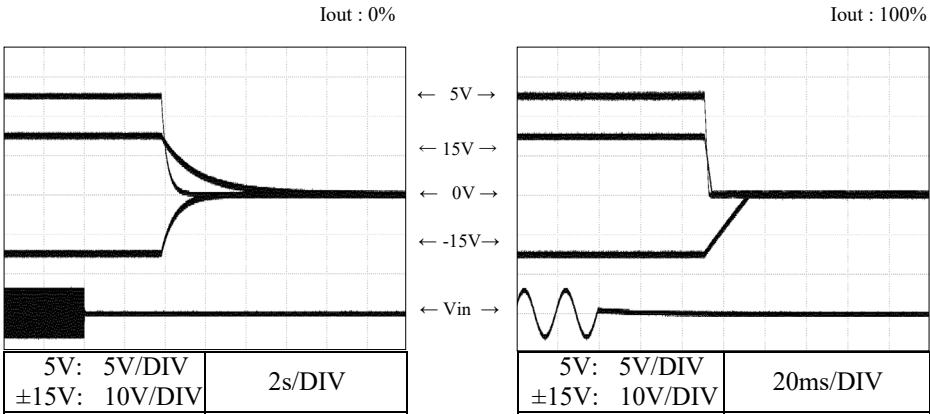


Vin : 265VAC
Iout : 100%

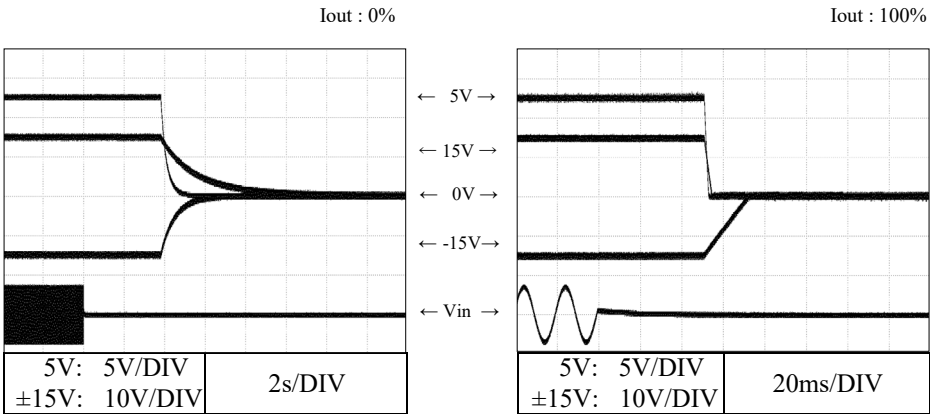


2.5 出力立ち下がり特性
Output fall characteristics
Model: CUT100-5FF

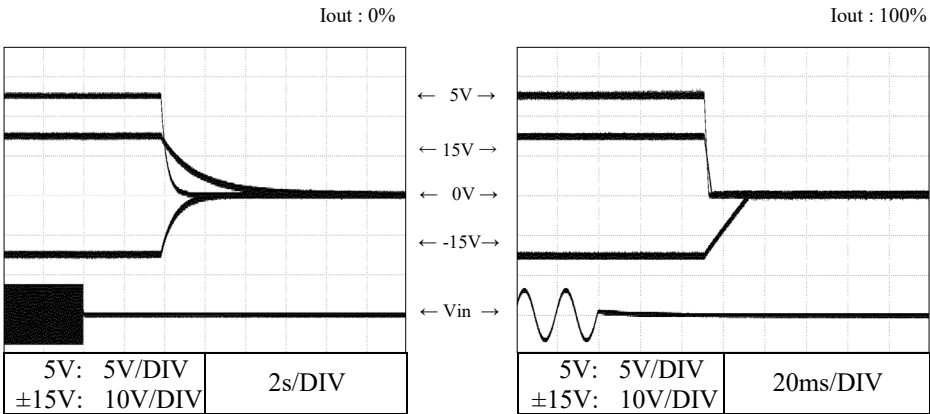
Conditions Ta : 25°C
Vin : 85VAC
Iout : 100%



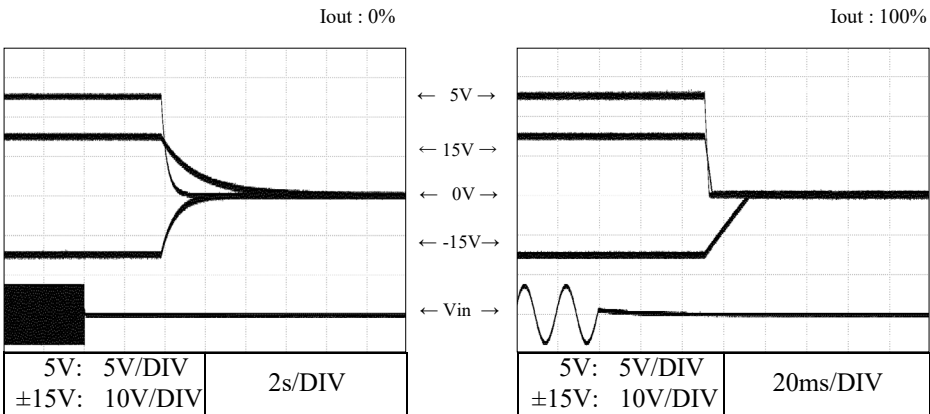
Vin : 100VAC
Iout : 100%



Vin : 230VAC
Iout : 100%



Vin : 265VAC
Iout : 100%

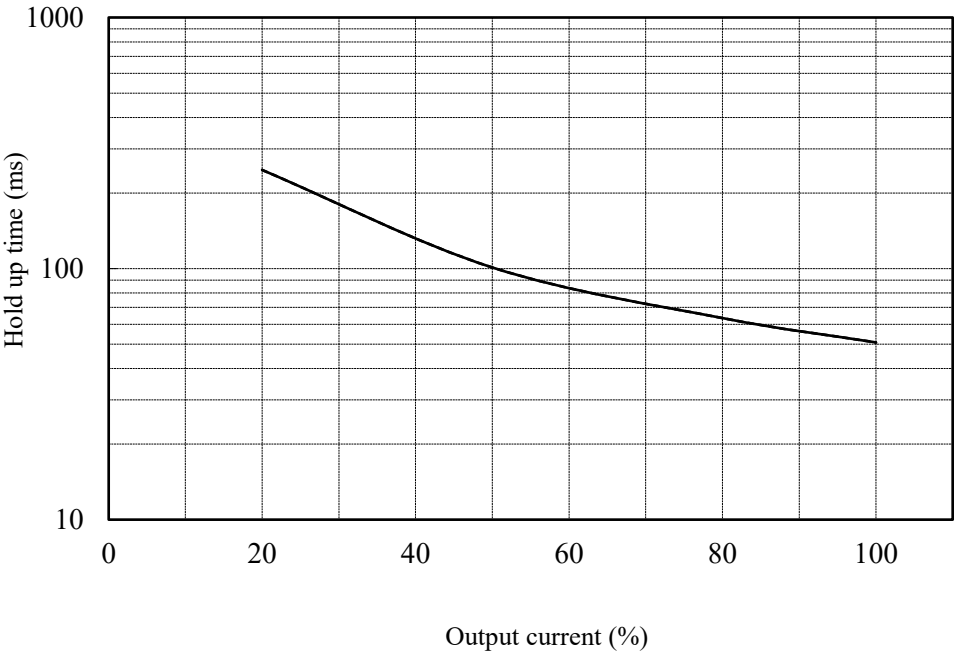


2. 6 出力保持時間特性

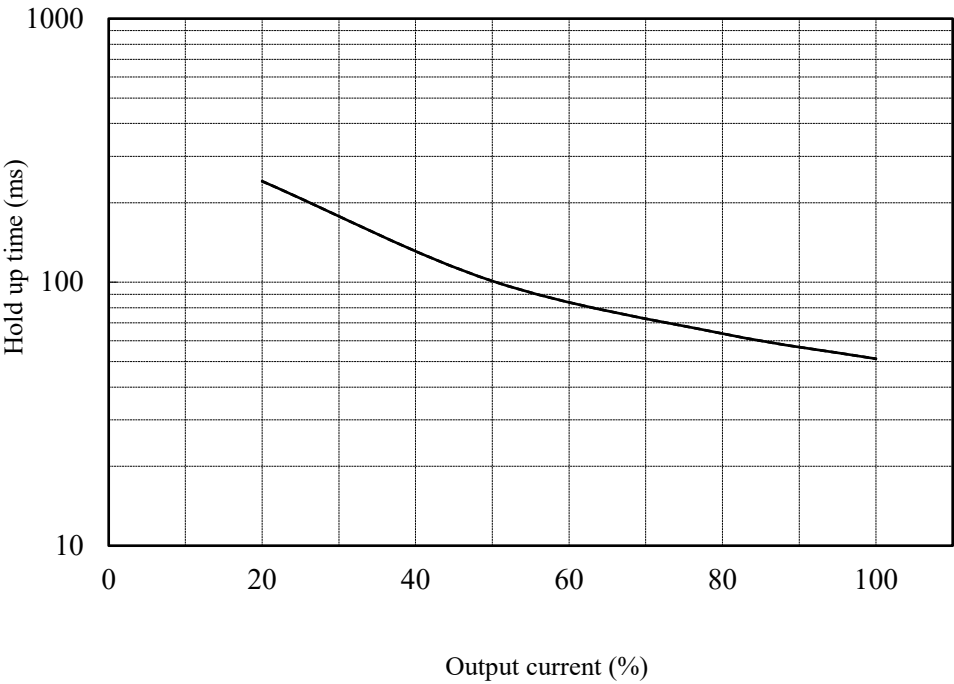
Hold up time characteristics

Model: CUT100-522

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



Model: CUT100-5FF



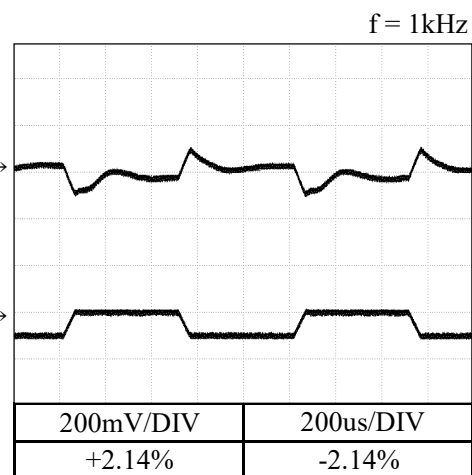
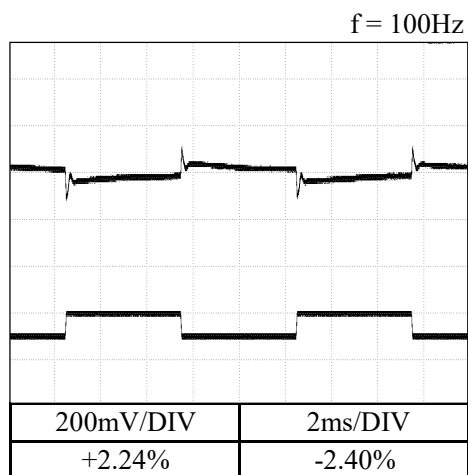
2.7 過渡応答（負荷急変）特性

Dynamic load response characteristics
Model: CUT100-522

Conditions V_{in} : 100VAC
 T_a : 25°C
($t_r = t_f = 50\mu s$)

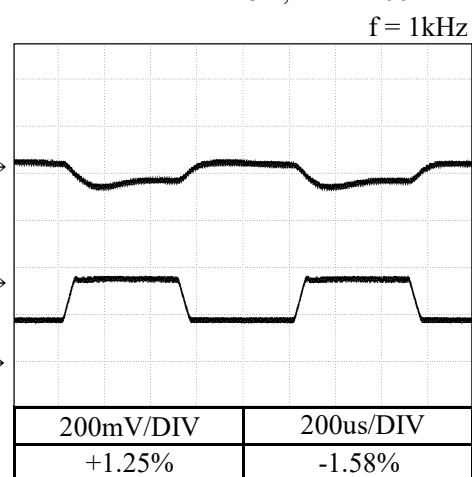
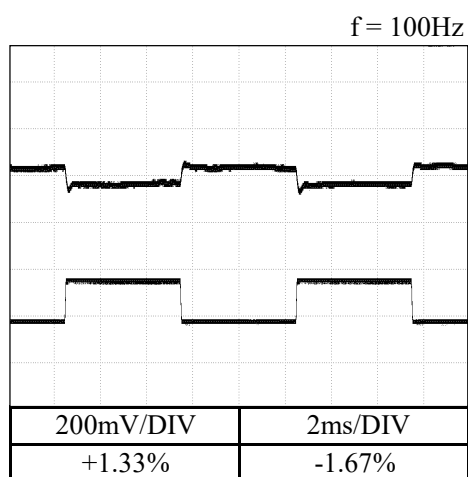
5V

I_{out} : 5V: 50% $\leftrightarrow$ 100%
 $\pm 12V$: 100%



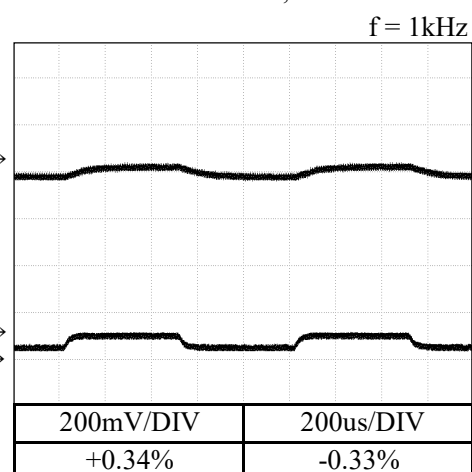
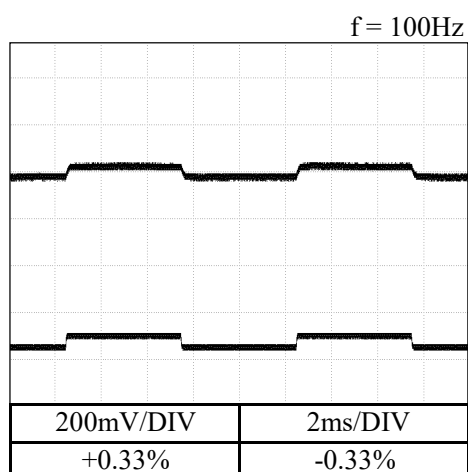
+12V

I_{out} : 12V: 50% $\leftrightarrow$ 100%
5V, -12V: 100%



-12V

I_{out} : -12V: 50% $\leftrightarrow$ 100%
5V, +12V: 100%



2.7 過渡応答（負荷急変）特性

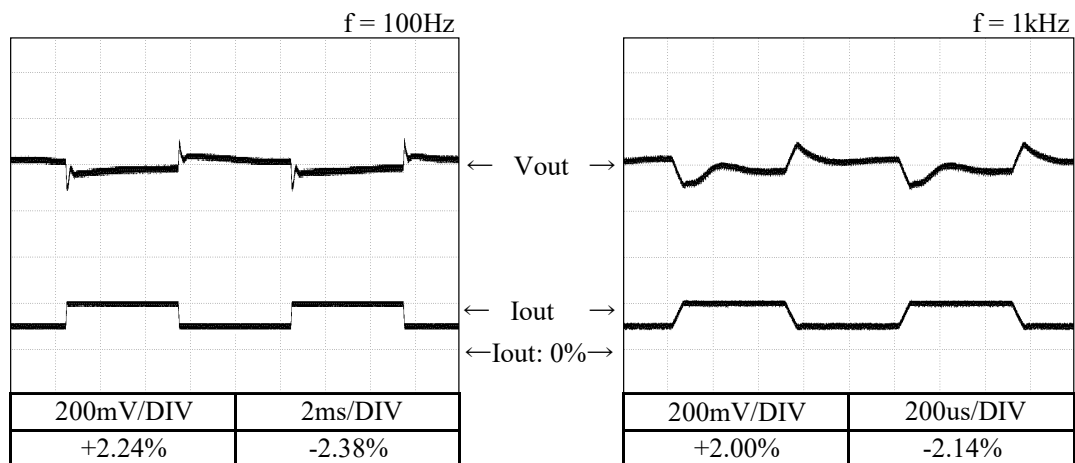
Dynamic load response characteristics

Model: CUT100-5FF

Conditions V_{in} : 100VAC
 T_a : 25°C
(tr = tf = 50us)

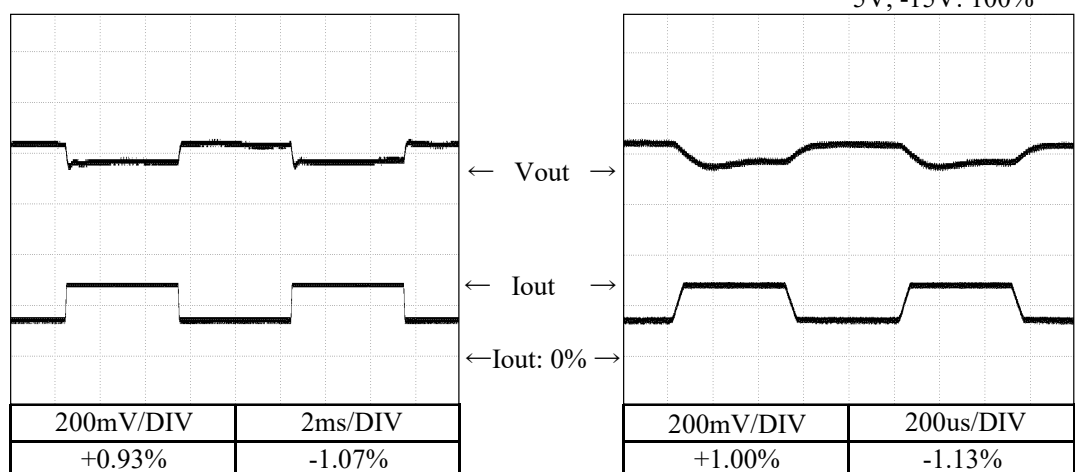
5V

I_{out} : 5V: 50% $\leftrightarrow$ 100%
 $\pm 15V$: 100%



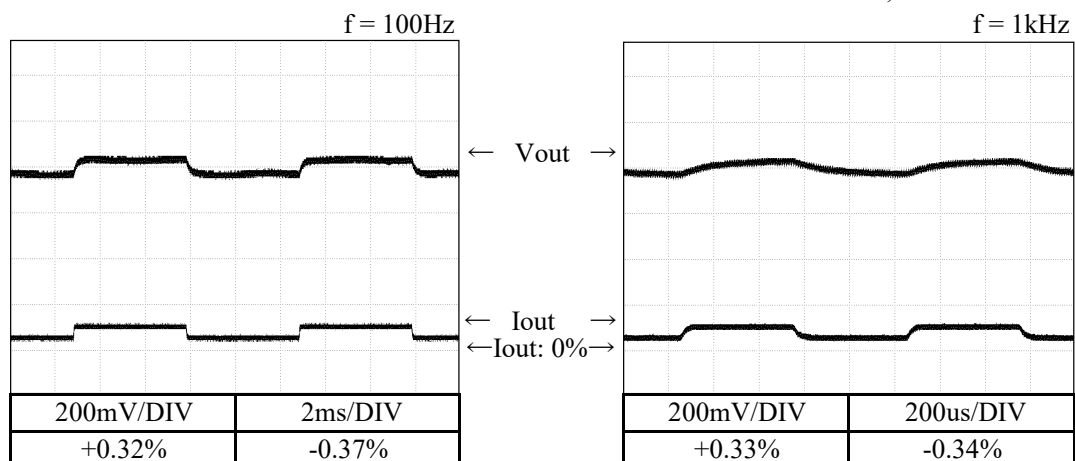
+15V

I_{out} : 15V: 50% $\leftrightarrow$ 100%
5V, -15V: 100%



-15V

I_{out} : -15V: 50% $\leftrightarrow$ 100%
5V, +15V: 100%



2.8 入力電圧瞬停特性

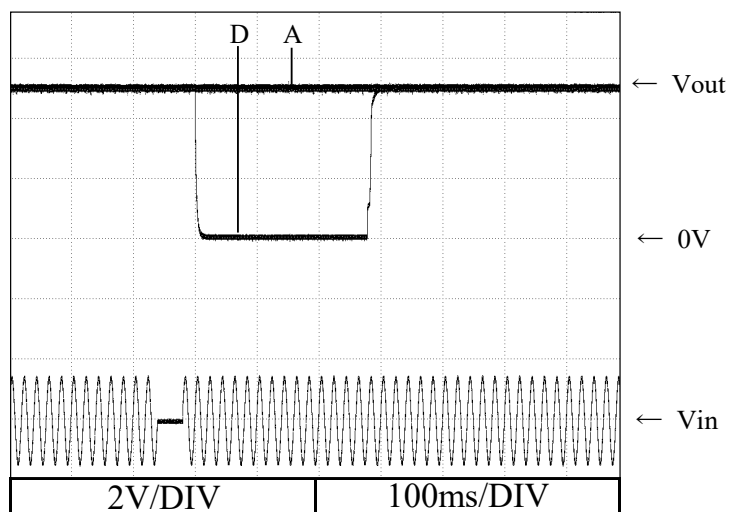
Response to brown out characteristics
Model: CUT100-522

Conditions V_{in} : 100 VAC
 I_{out} : 100 %
 T_a : 25 °C

CH1:5V

A = 41.5ms

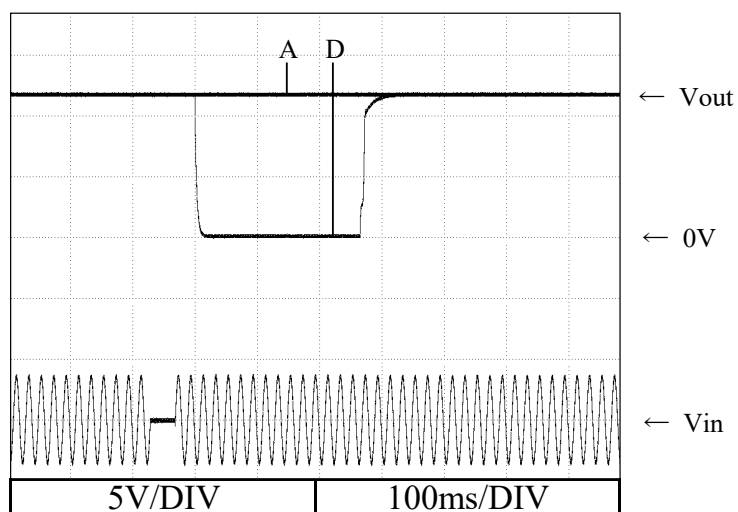
D = 41.6ms



CH2:+12V

A = 41.5ms

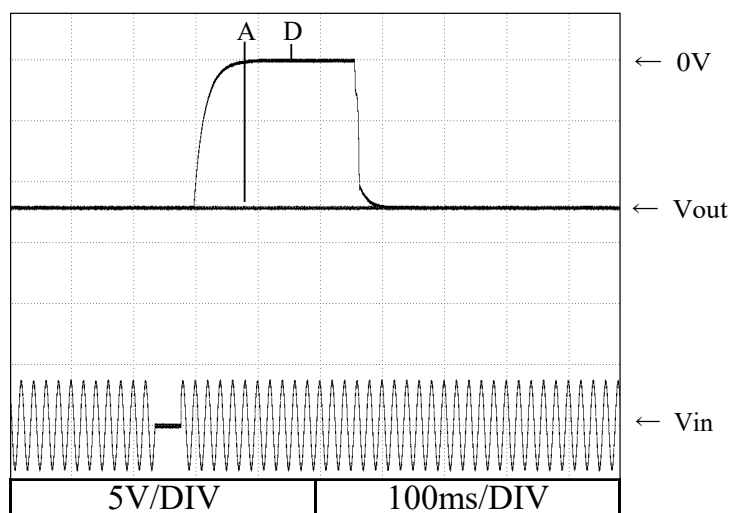
D = 41.6ms



CH3: -12V

A = 41.5ms

D = 41.6ms



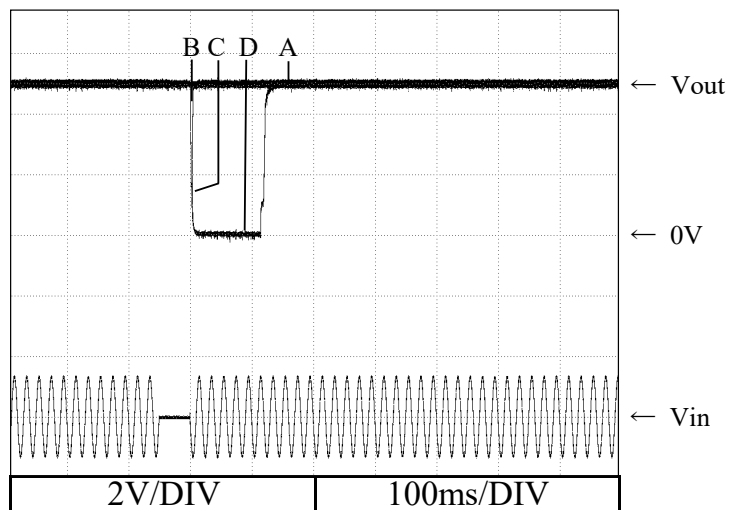
2.8 入力電圧瞬停特性

Response to brown out characteristics
Model: CUT100-522

Conditions V_{in} : 230 VAC
 I_{out} : 100 %
 T_a : 25 °C

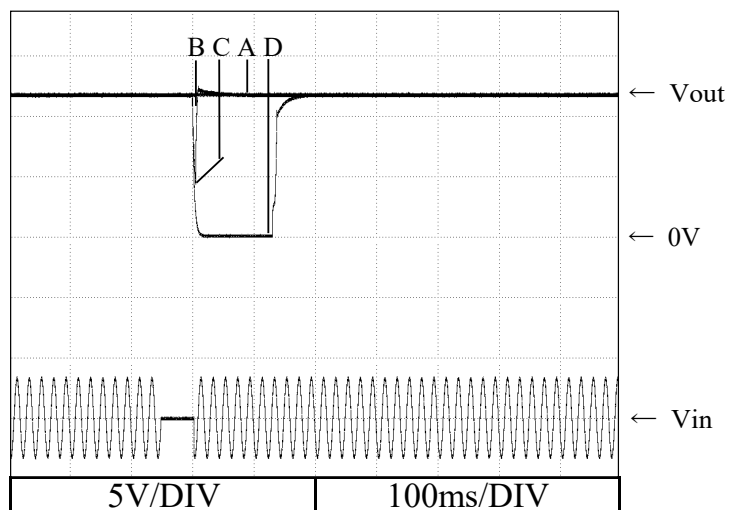
CH1:5V

A = 50.5ms
B = 50.6ms
C = 53.9ms
D = 54.2ms



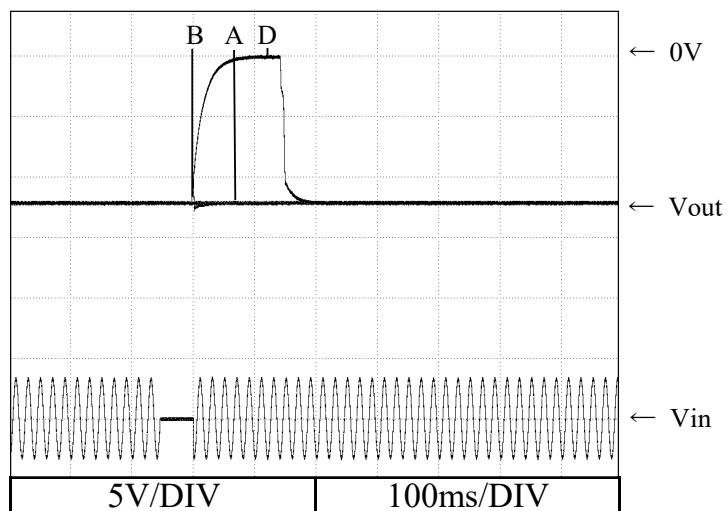
CH2:+12V

A = 50.5ms
B = 50.6ms
C = 53.9ms
D = 54.2ms



CH3: -12V

A = 50.5ms
B = 50.6ms
D = 54.2ms



2.8 入力電圧瞬停特性

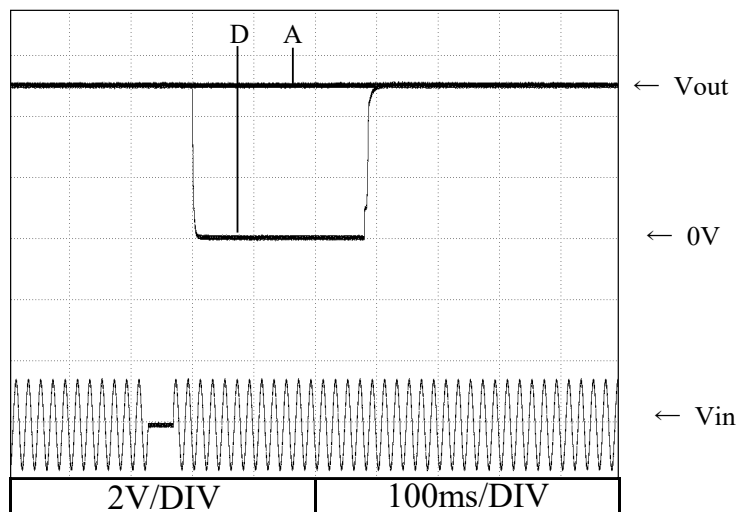
Response to brown out characteristics
Model: CUT100-5FF

Conditions V_{in} : 100 VAC
 I_{out} : 100 %
 T_a : 25 °C

CH1:5V

A = 41.3ms

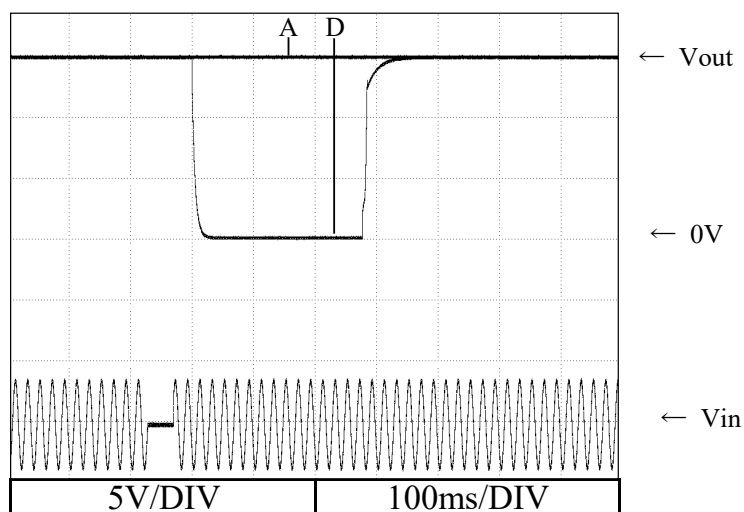
D = 41.4ms



CH2:+15V

A = 41.3ms

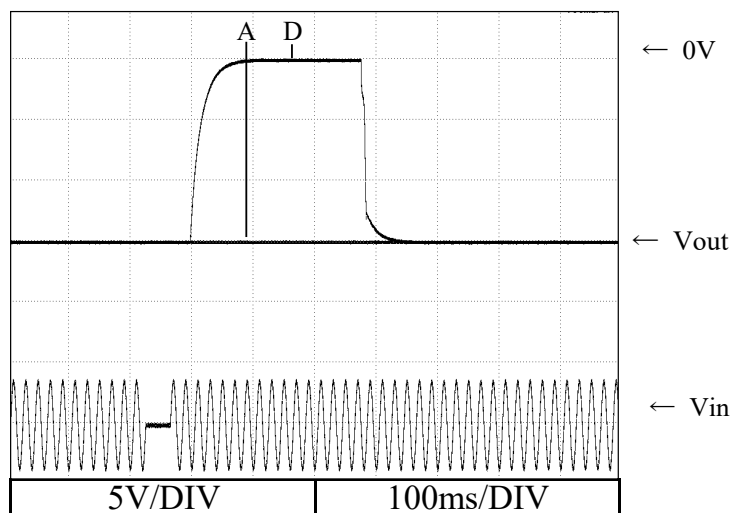
D = 41.4ms



CH3: -15V

A = 41.3ms

D = 41.4ms



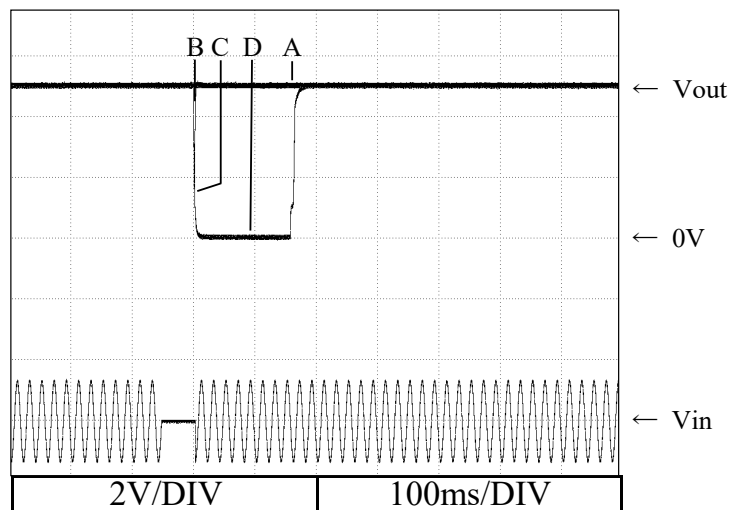
2.8 入力電圧瞬停特性

Response to brown out characteristics
Model: CUT100-5FF

Conditions V_{in} : 230 VAC
 I_{out} : 100 %
 T_a : 25 °C

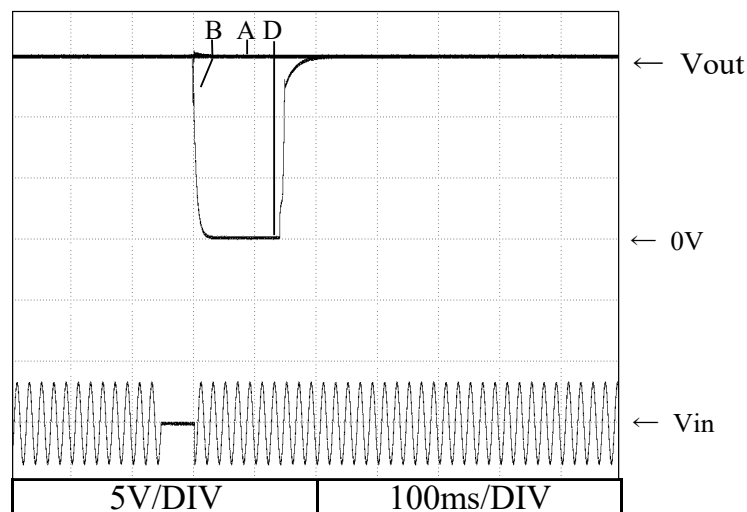
CH1:5V

A = 49.4ms
B = 49.8ms
C = 53.5ms
D = 54.2ms



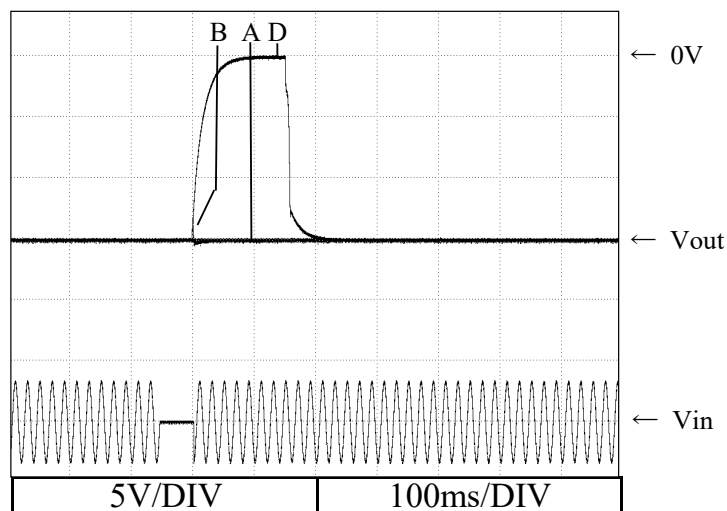
CH2:+15V

A = 49.4ms
B = 49.8ms
D = 54.5ms



CH3: -15V

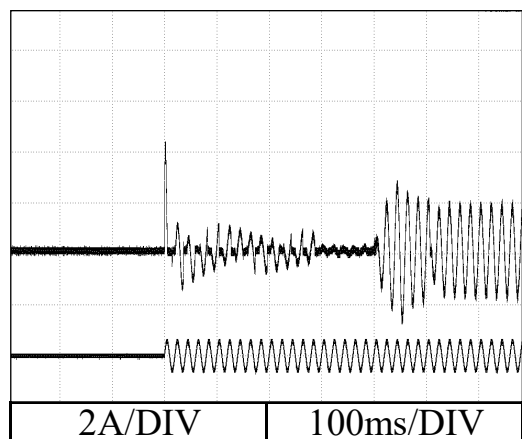
A = 49.4ms
B = 49.8ms
D = 54.5ms



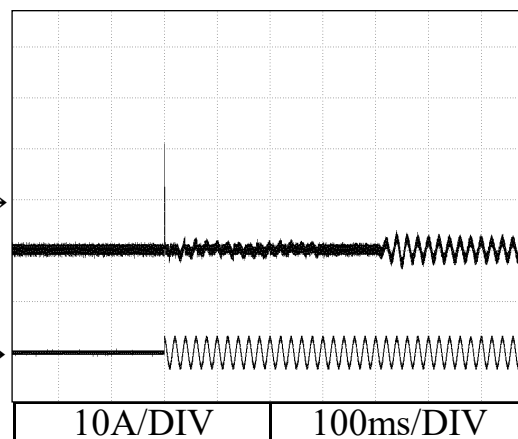
2.9 入力サージ電流（突入電流）波形 Inrush current waveform

Conditions V_{in} : 100 VAC
 I_{out} : 100 %
 T_a : 25 °C

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

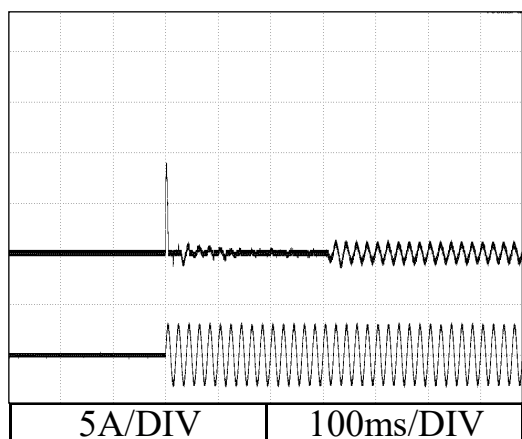


Switch on phase angle of input AC voltage
 $\phi = 90^\circ$

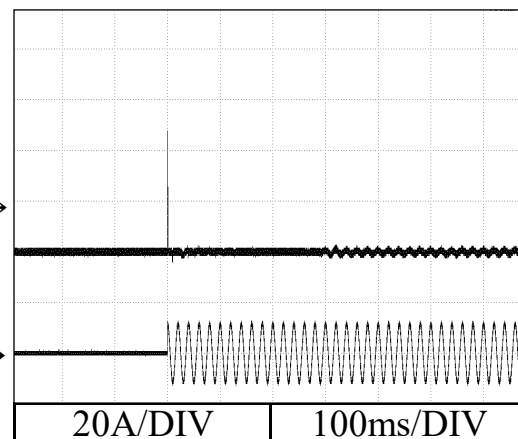


Conditions V_{in} : 230 VAC
 I_{out} : 100 %
 T_a : 25 °C

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



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

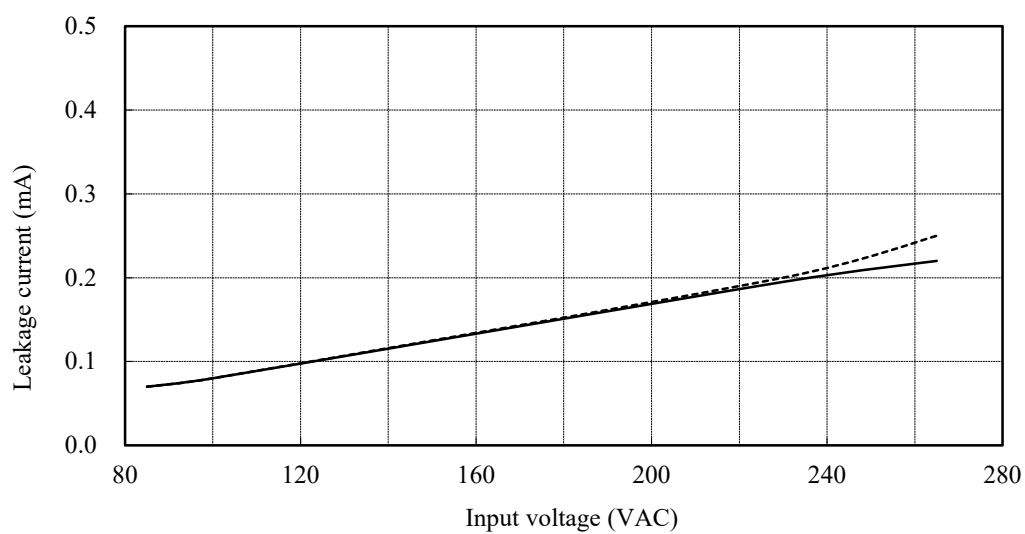


2.10 リーク電流特性

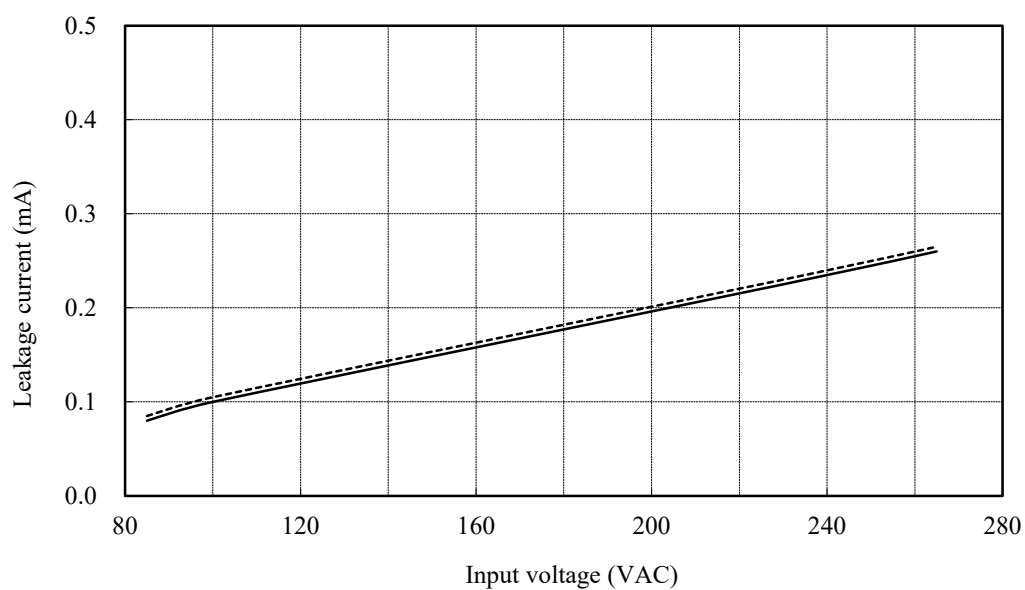
Leakage current characteristics

Conditions Iout : 0 % - - - - -
 100 % ———
 Ta : 25 °C
 f : 50 Hz

L



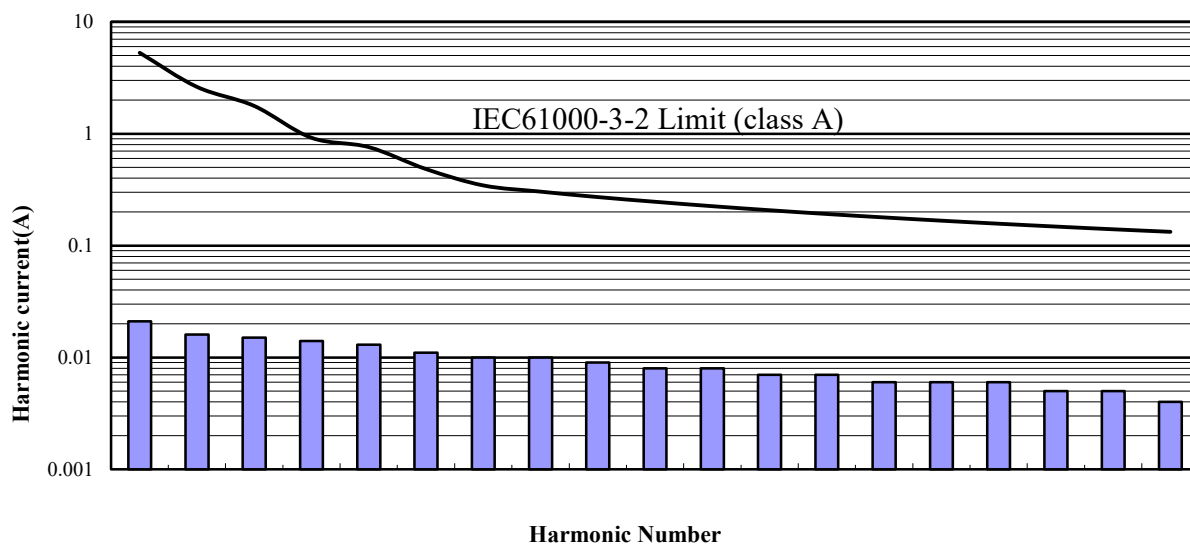
N



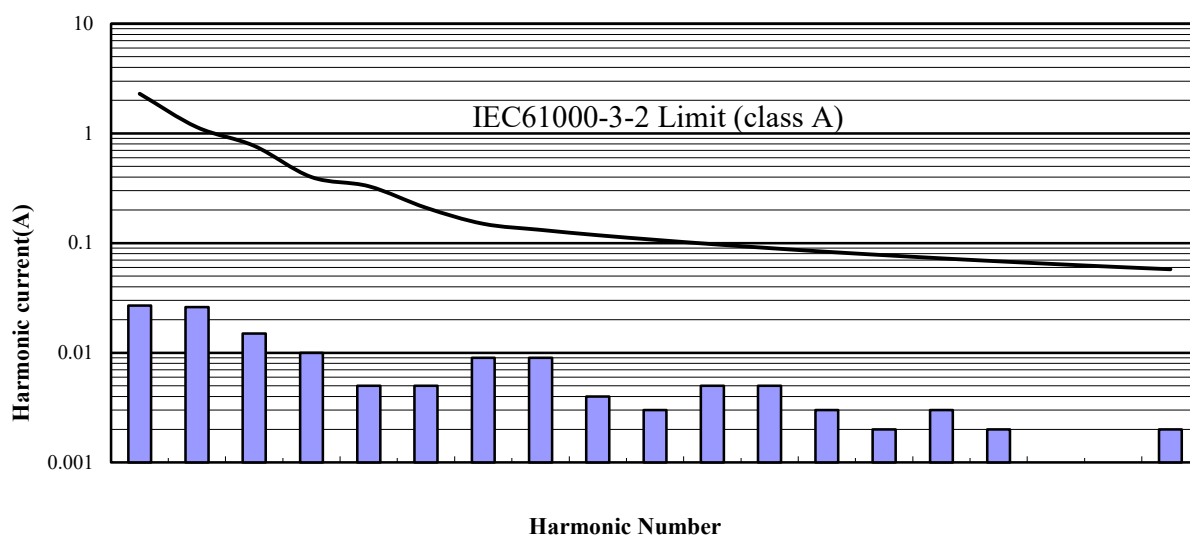
2. 11 高調波電流特性

Harmonics current characteristics

Conditions V_{in} : 100 V
 I_{out} : 100 %
 T_a : 25 °C

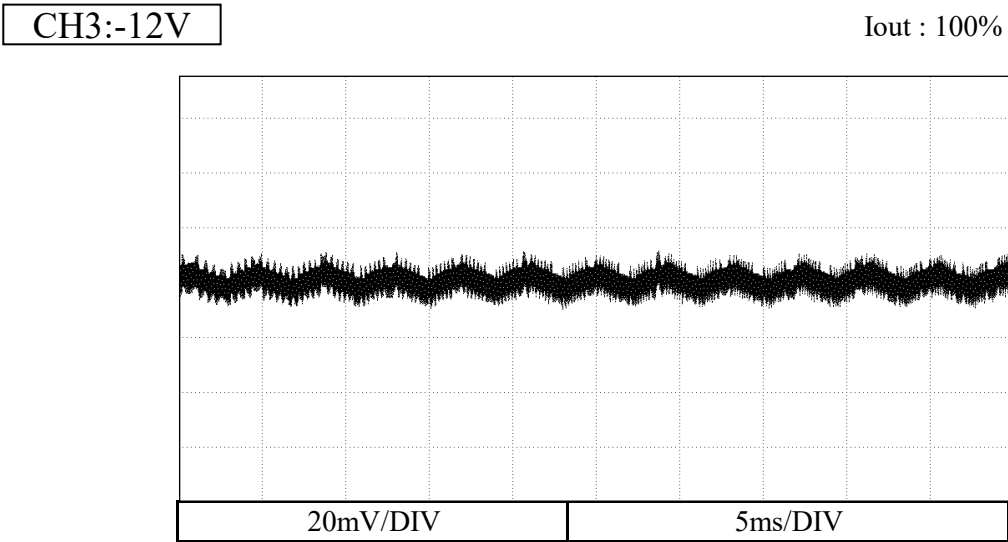
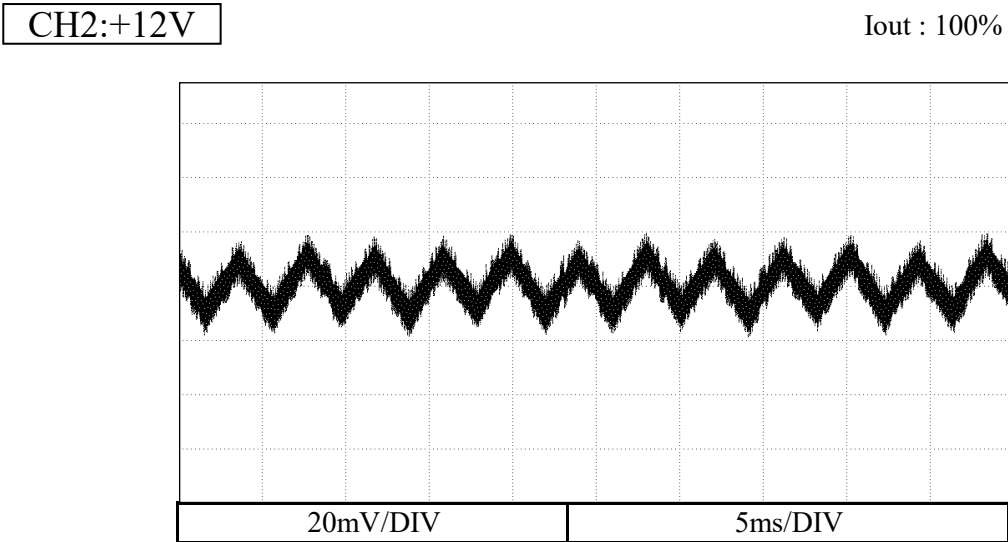
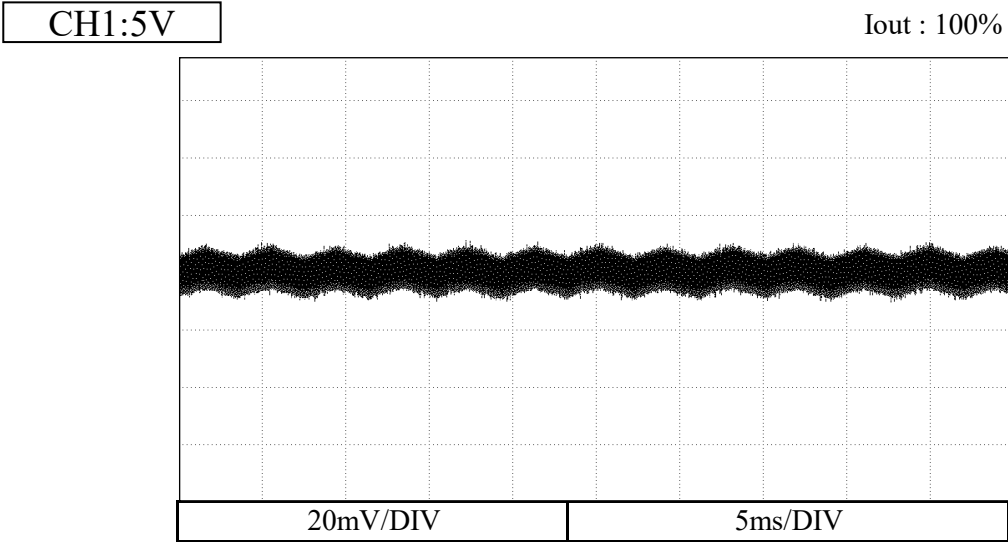


Conditions V_{in} : 230 V
 I_{out} : 100 %
 T_a : 25 °C



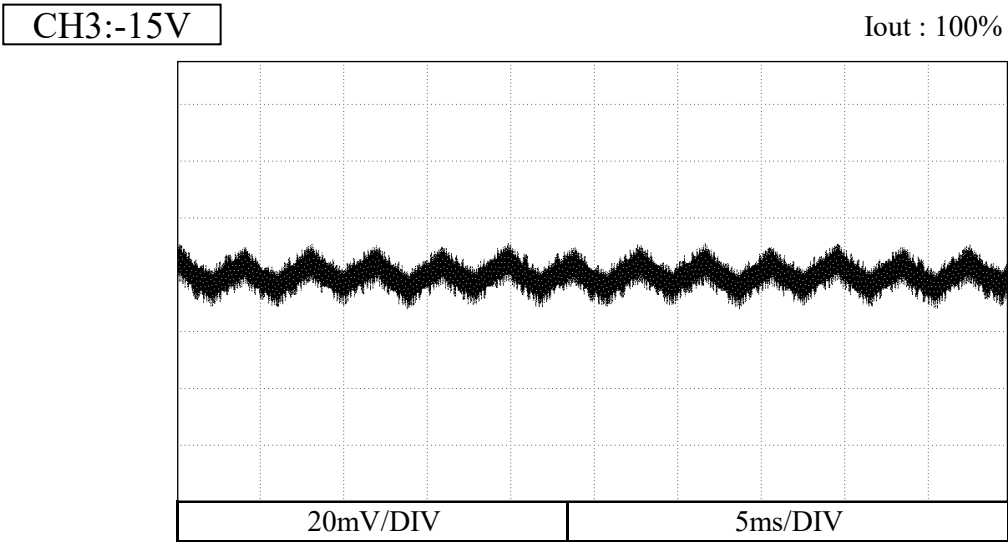
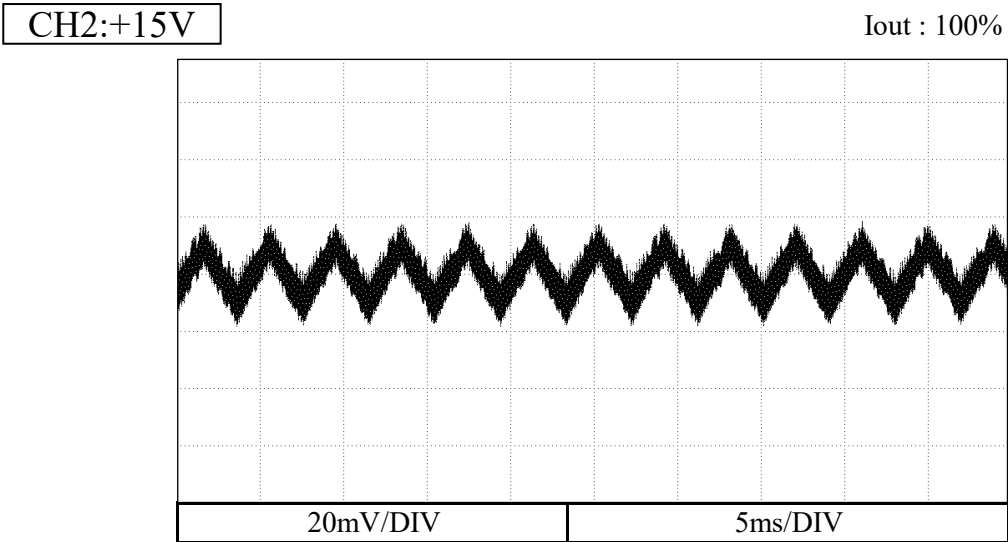
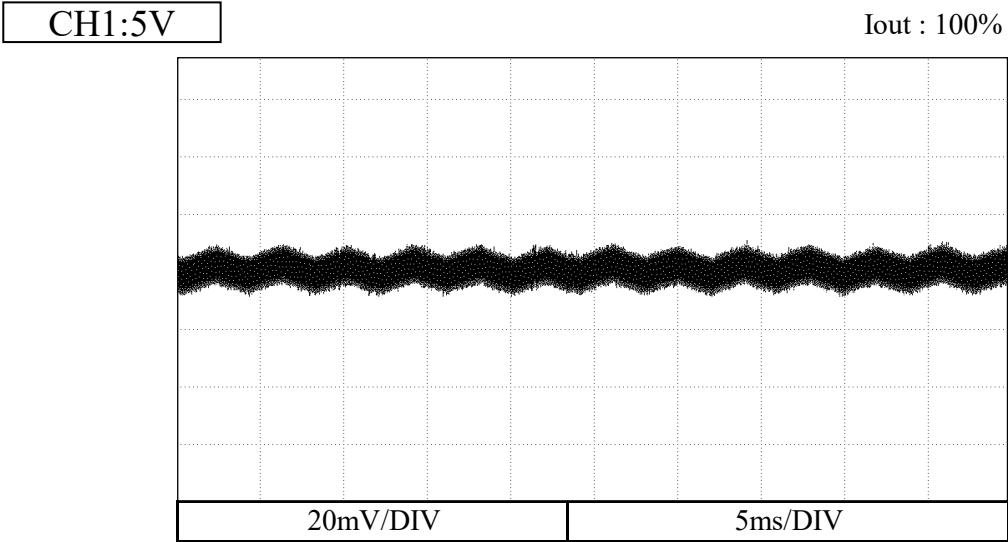
2.11 出力リップル、ノイズ波形
Output ripple and noise waveform
Model: CUT100-522

Conditions Vin : 100VAC
Ta : 25℃



2. 11 出力リップル、ノイズ波形
Output ripple and noise waveform
Model: CUT100-5FF

Conditions Vin : 100VAC
Ta : 25℃

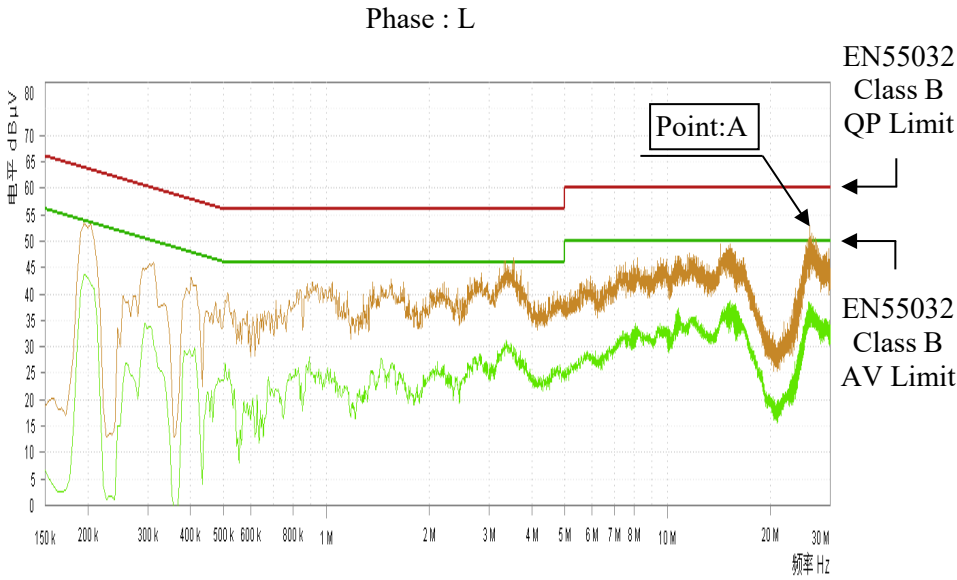


2.12 EMI 特性
Electro-Magnetic Interference characteristics
Model: CUT100-522

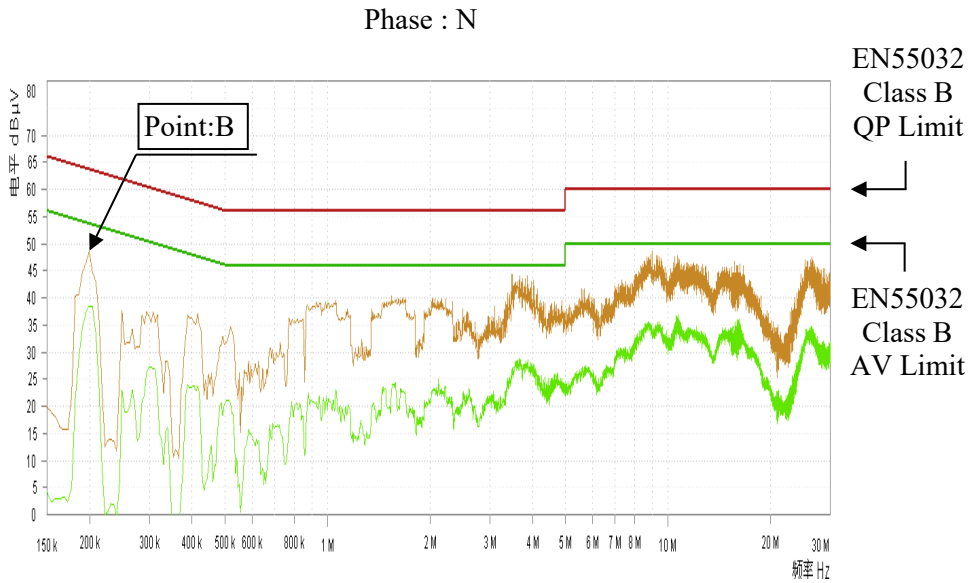
Conditions Vin: 100VAC
 Io: 100%
 Ta: 25°C

雑音端子電圧
Conducted Emission

Point A (26.12MHz)		
Ref. Data	Limit (dBuV)	Measure (dBuV)
QP	60.0	44.1
AV	50.0	34.2



Point B (0.20MHz)		
Ref. Data	Limit (dBuV)	Measure (dBuV)
QP	63.5	48.7
AV	53.5	38.6



2.12 EMI 特性
Electro-Magnetic Interference characteristics
Model: CUT100-522

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

雑音端子電圧
Conducted Emission

Ref. Data	Point A (0.20MHz)	
	Limit (dBuV)	Measure (dBuV)
QP	65.1	53.4
AV	53.8	44.8



Ref. Data	Point B (0.20MHz)	
	Limit (dBuV)	Measure (dBuV)
QP	65.8	54.4
AV	54.5	41.4



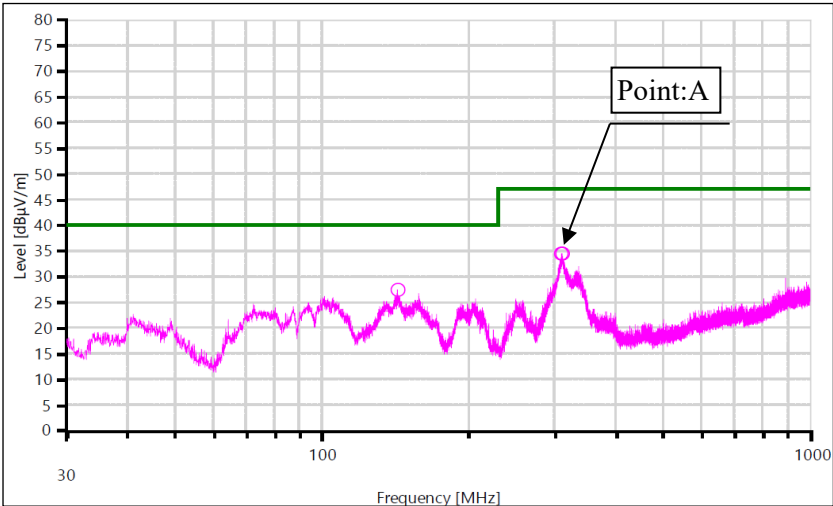
2. 12 E M I 特性
Electro-Magnetic Interference characteristics
Model: CUT100-522

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

雑音電界強度
Radiated Emission

Polarity: Horizontal

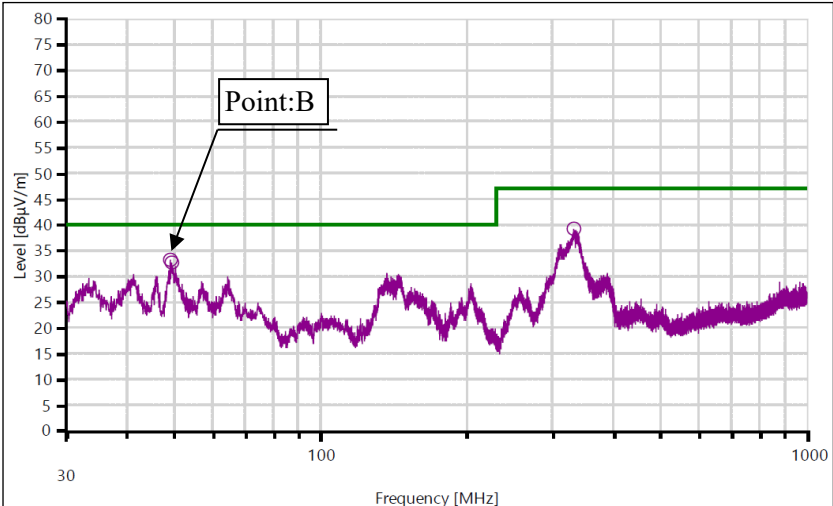
Point A (316MHz)		
Ref. Data	Limit (dBuV)	Measure (dBuV)
QP	47.0	34.5



EN55032
Class B
QP Limit
←

Polarity: Vertical

Point B (49MHz)		
Ref. Data	Limit (dBuV)	Measure (dBuV)
QP	40.0	33.2



EN55032
Class B
QP Limit
←

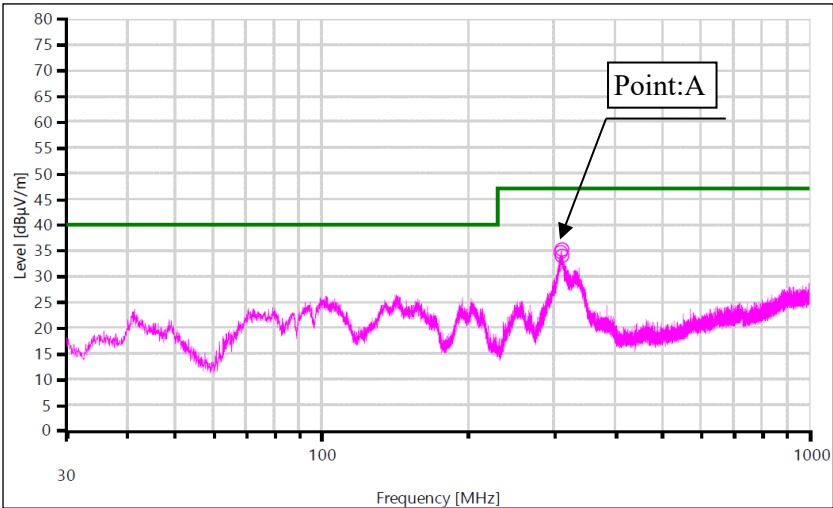
2. 12 E M I 特性
Electro-Magnetic Interference characteristics
Model: CUT100-522

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

雑音電界強度
Radiated Emission

Polarity: Horizontal

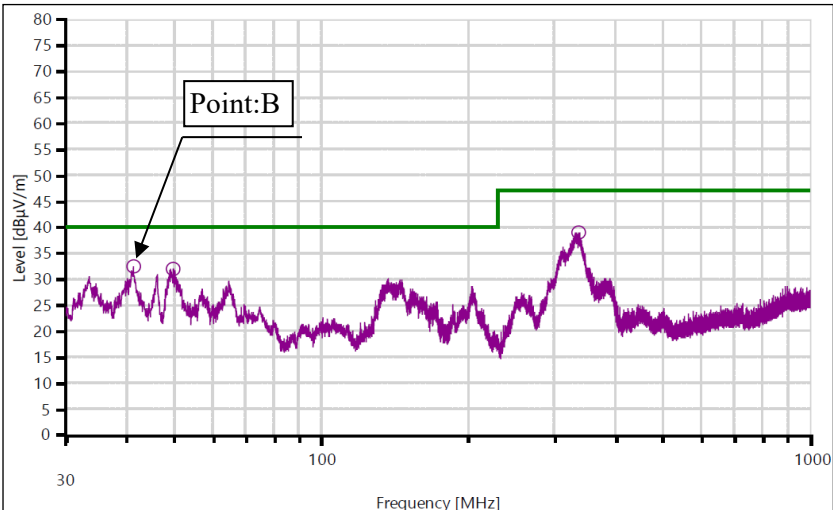
Point A (310MHz)		
Ref. Data	Limit (dBuV)	Measure (dBuV)
QP	47.0	35.2



EN55032
Class B
QP Limit
←

Polarity: Vertical

Point B (41MHz)		
Ref. Data	Limit (dBuV)	Measure (dBuV)
QP	40.0	32.5



EN55032
Class B
QP Limit
←

2. 12 E M I 特性
Electro-Magnetic Interference characteristics
Model: CUT100-5FF

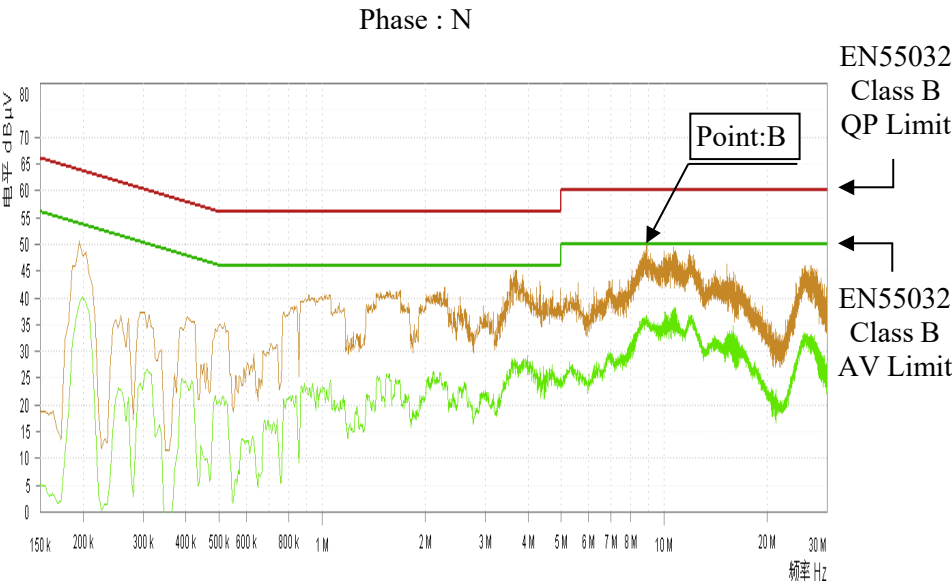
Conditions Vin: 100VAC
 Io: 100%
 Ta: 25°C

雑音端子電圧
Conducted Emission

Ref. Data	Point A (0.20MHz)	
	Limit (dBuV)	Measure (dBuV)
QP	63.6	51.6
AV	53.8	44.6



Ref. Data	Point B (8.90MHz)	
	Limit (dBuV)	Measure (dBuV)
QP	60.0	44.4
AV	50.0	34.5

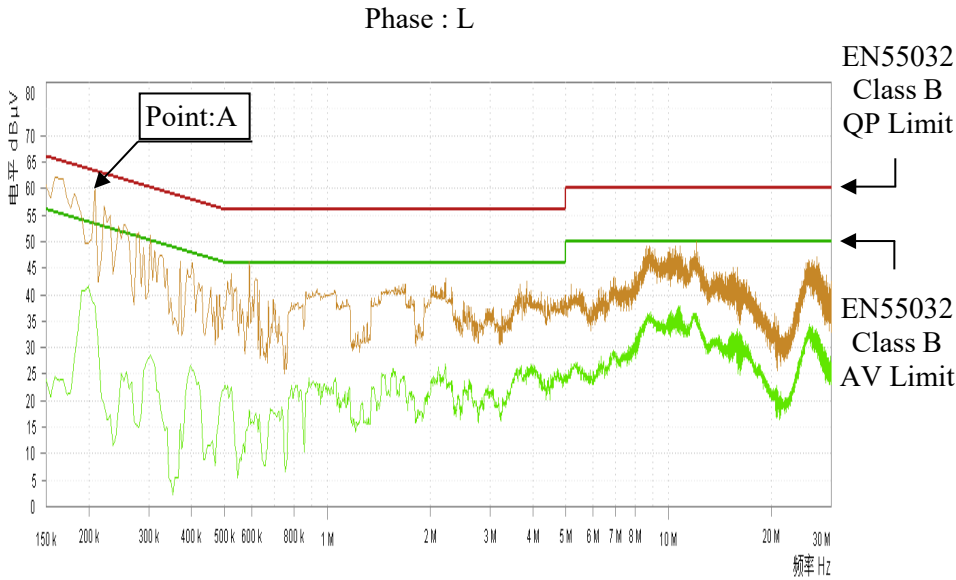


2.12 EMI 特性
Electro-Magnetic Interference characteristics
Model: CUT100-5FF

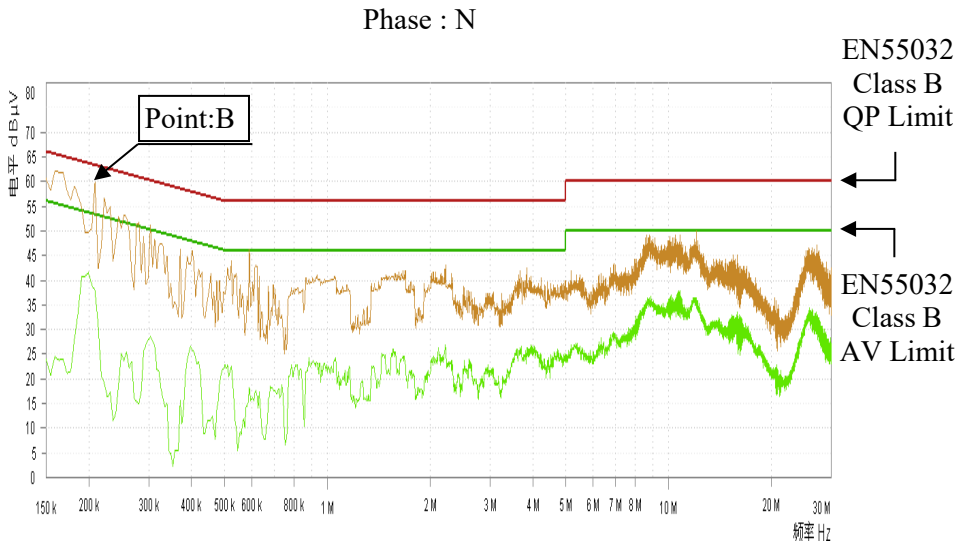
Conditions Vin: 230VAC
 Io: 100%
 Ta: 25°C

雑音端子電圧
Conducted Emission

Ref. Data	Point A (0.20MHz)	
	Limit (dBuV)	Measure (dBuV)
QP	65.3	54.9
AV	53.8	44.6



Ref. Data	Point B (0.20MHz)	
	Limit (dBuV)	Measure (dBuV)
QP	65.5	55.1
AV	53.5	42.2



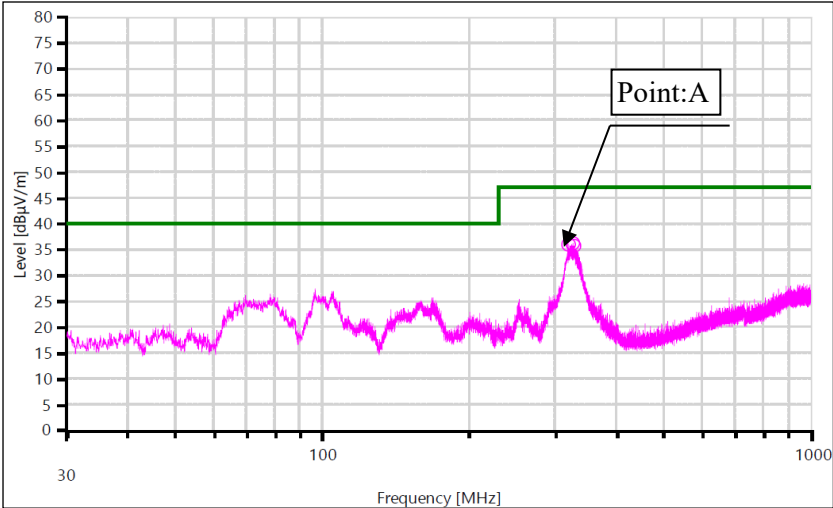
2. 12 E M I 特性
Electro-Magnetic Interference characteristics
Model: CUT100-5FF

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

雑音電界強度
Radiated Emission

Polarity: Horizontal

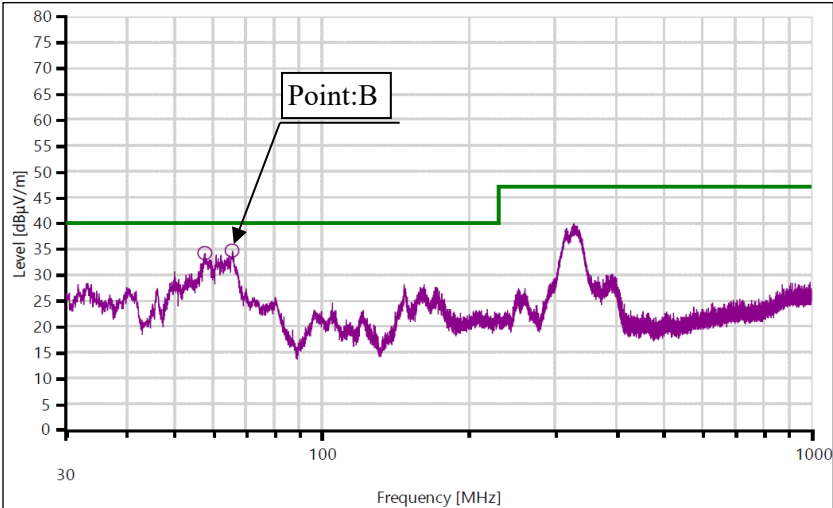
Point A (326MHz)		
Ref. Data	Limit (dBuV)	Measure (dBuV)
QP	47.0	36.2



EN55032
Class B
QP Limit

Polarity: Vertical

Point B (66MHz)		
Ref. Data	Limit (dBuV)	Measure (dBuV)
QP	40.0	33.3



EN55032
Class B
QP Limit

2. 12 E M I 特性

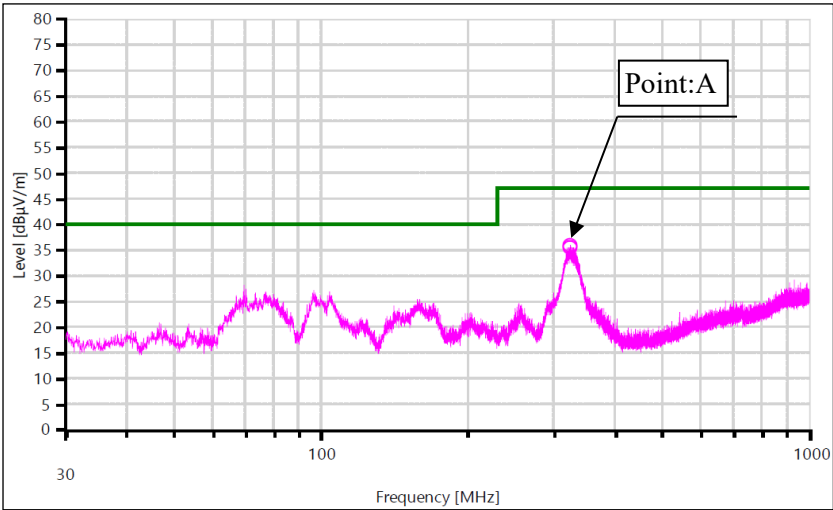
Electro-Magnetic Interference characteristics
Model: CUT100-5FF

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

雑音電界強度
Radiated Emission

Polarity: Horizontal

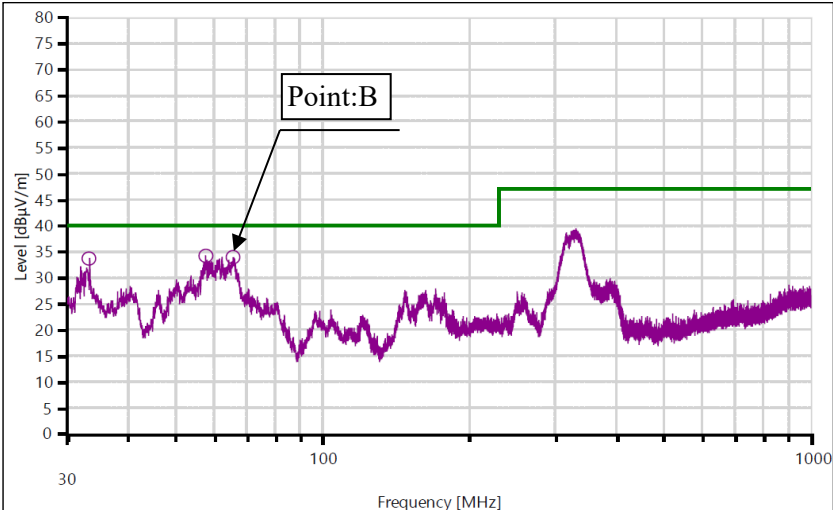
Ref. Data	Point A (324MHz)	
	Limit (dBuV)	Measure (dBuV)
QP	47.0	36.0



EN55032
Class B
QP Limit

Polarity: Vertical

Ref. Data	Point B (66MHz)	
	Limit (dBuV)	Measure (dBuV)
QP	40.0	32.0



EN55032
Class B
QP Limit