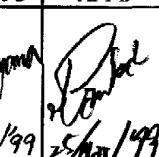


JWS600

EVALUATION DATA

型式データ

DWG No. A162-53-01			
QA APPD	APPD	CHK	DWG
J.murayama 23/MAR/99	 25/Mar/99	M. Watanabe 19/Mar/99	Ogouchi 19/March/99

INDEX

1. 測定方法 Evaluation Method	PAGE
1.1 測定回路 Circuit used for determination	T-1~5
(1) 静特性 Steady state data	
(2) 通電ドリフト特性 Warm up voltage drift characteristics	
(3) 過電流保護特性 Over current protection (OCP) characteristics	
(4) 過電圧保護特性 Over voltage protection (OVP) characteristics	
(5) 出力立ち上がり特性 Output rise characteristics	
(6) 出力立ち下がり特性 Output fall characteristics	
(7) ON/OFFコントロール時出力立ち上がり特性 Output rise characteristics with ON/OFF CONTROL	
(8) ON/OFFコントロール時出力立ち下がり特性 Output fall characteristics with ON/OFF CONTROL	
(9) 過渡応答（入力急変）特性 Dynamic line response characteristics	
(10) 過渡応答（負荷急変）特性 Dynamic load response characteristics	
(11) 入力サージ電流（突入電流）特性 Inrush current characteristics	
(12) リーク電流特性 Leakage current characteristics	
(13) 出力リップル、ノイズ波形 Output ripple and noise waveform	
(14) EMI特性 Electro-Magnetic Interference characteristics	
1.2 使用測定機器 List of equipment used	T-6
2. 特性データ Characteristics	
2.1 静特性 Steady state data	
(1) 入力・負荷・温度変動 Regulation - line and load, temperature drift	T-7
(2) 出力電圧・リップル電圧対入力電圧 Output voltage and ripple voltage vs. input voltage	T-8~9
(3) 効率・入力電流対出力電流 Efficiency and input current vs. output current	T-10~11
(4) 力率・入力電流対出力電流 Power factor and input current vs. output current	T-12~13
2.2 通電ドリフト特性 Warm up voltage drift characteristics	T-14
2.3 過電流保護特性 Over current protection (OCP) characteristics	T-15~16
2.4 過電圧保護特性 Over voltage protection (OVP) characteristics	T-17
2.5 出力立ち上がり特性 Output rise characteristics	T-18~21
2.6 出力立ち下がり特性 Output fall characteristics	T-22~25
2.7 ON/OFFコントロール時出力立ち上がり特性 Output rise characteristics with ON/OFF CONTROL	T-26~27
2.8 ON/OFFコントロール時出力立ち下がり特性 Output fall characteristics with ON/OFF CONTROL	T-28~29

2.9	出力保持時間特性	Hold up time characteristics	T-30~31
2.10	過渡応答（入力急変）特性	Dynamic line response characteristics ...	T-32~33
2.11	過渡応答（負荷急変）特性	Dynamic load response characteristics ..	T-34~37
2.12	入力電圧瞬停特性	Response to brown out characteristics	T-38~41
2.13	入力サージ電流（突入電流）特性	Inrush current waveform	T-42~43
2.14	瞬停時突入電流特性	Inrush current characteristics	T-44
2.15	入力電流波形	Input current waveform	T-45
2.16	高調波成分	Input current harmonics	T-46
2.17	リーク電流特性	Leakage current characteristics	T-47~48
2.18	出力リップル、ノイズ波形	Output ripple and noise waveform	T-49~50
2.19	EMI特性	Electro-Magnetic Interference characteristics	T-51~56

使用記号 Terminology used

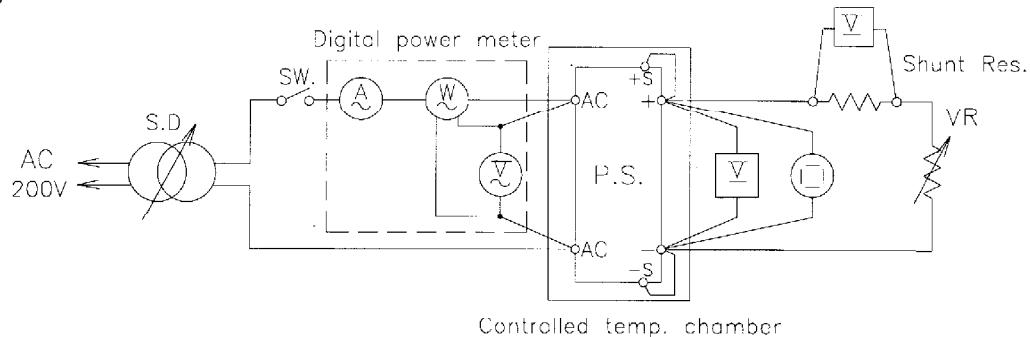
Definition		
Vin	.....	入力電圧 Input voltage
Vout	.....	出力電圧 Output voltage
Iin	.....	入力電流 Input current
Iout	.....	出力電流 Output current
f	.....	周波数 Frequency
Ta	.....	周囲温度 Ambient temperature

1. 1

測定回路
Circuit used for determination

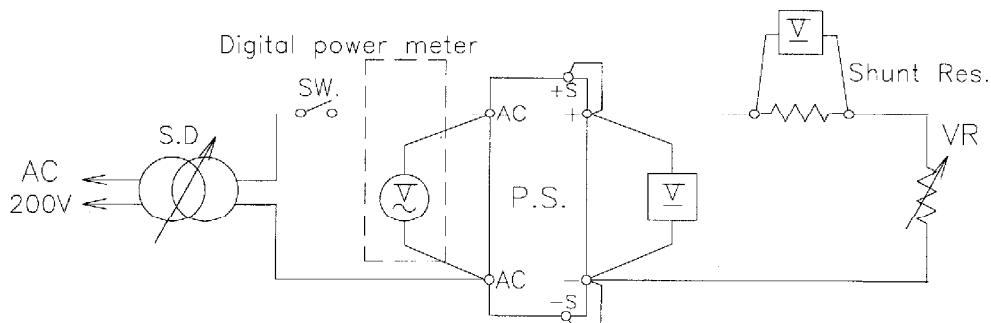
(1) 静特性

Steady state data



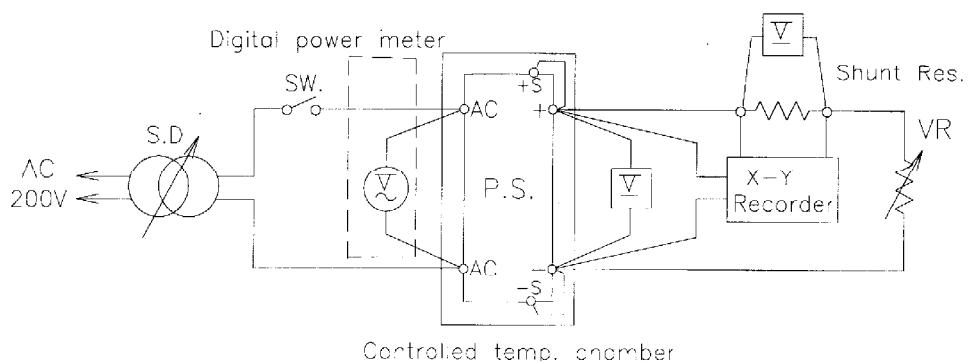
(2) 通電ドリフト特性

Warm up voltage drift characteristics



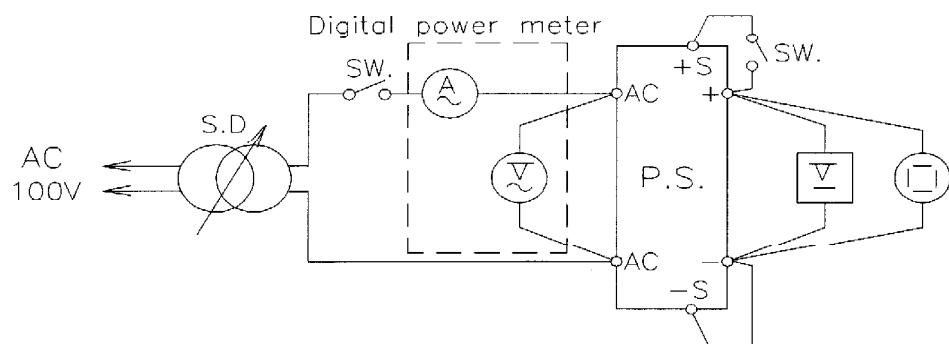
(3) 過電流保護特性

Over current protection (O.C.P.) characteristics

**NEMIC-LAMBDA**

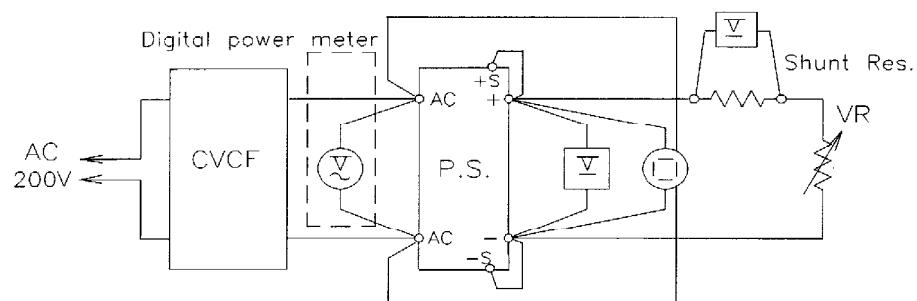
(4) 過電圧保護特性

Over voltage protection (O.V.P.) characteristics



(5) 出力立ち上がり特性

Output rise characteristics



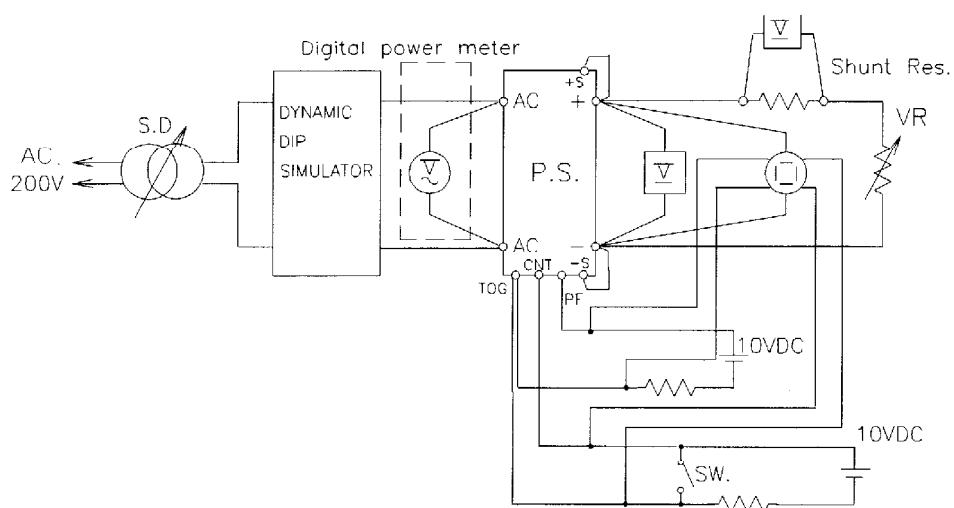
(6) 出力立ち下がり特性

Output fall characteristics

Same as output rise characteristics

(7) 出力立ち上がり特性 (ON/OFF CONTROL時)

Output rise characteristics with ON/OFF CONTROL



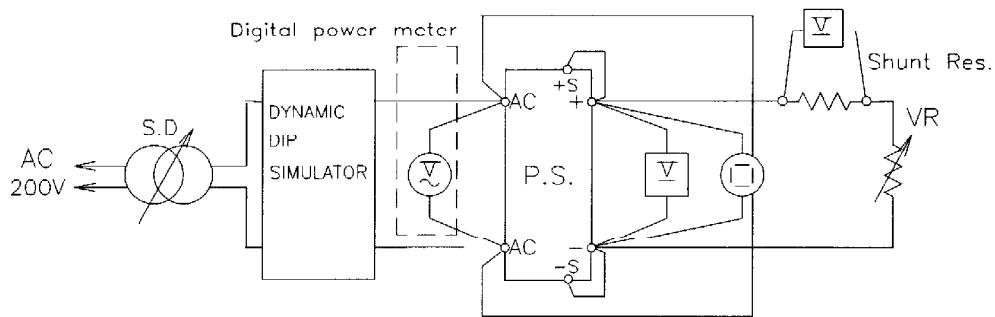
(8) 出力立ち下がり特性 (ON/OFF CONTROL時)

Output fall characteristics with ON/OFF CONTROL

Same as output rise characteristics with ON/OFF CONTROL

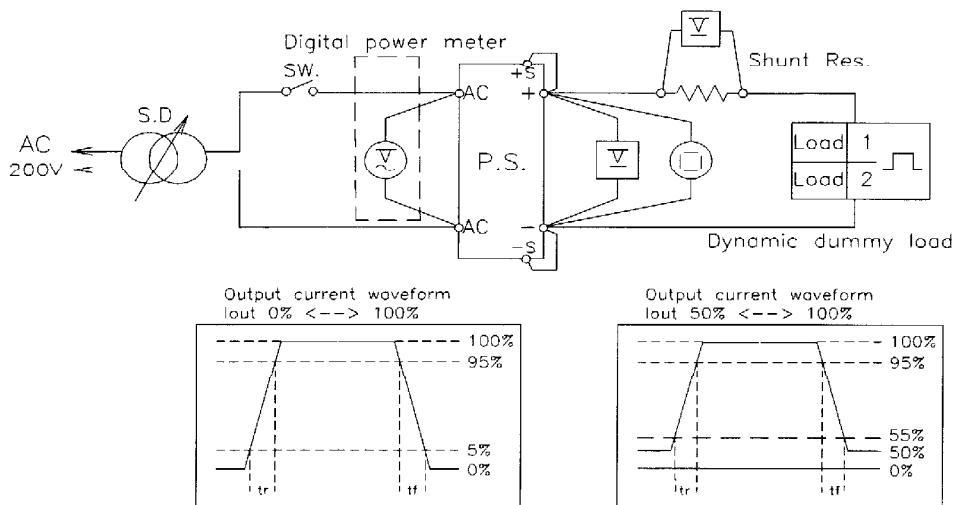
(9) 過渡応答(入力急変)特性

Dynamic line response characteristics



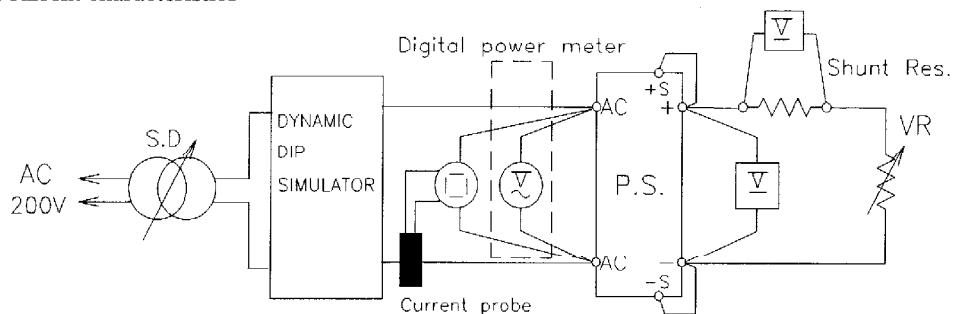
(10) 過渡応答(負荷急変)特性

Dynamic load response characteristics



(11) 入力サージ電流(突入電流)特性

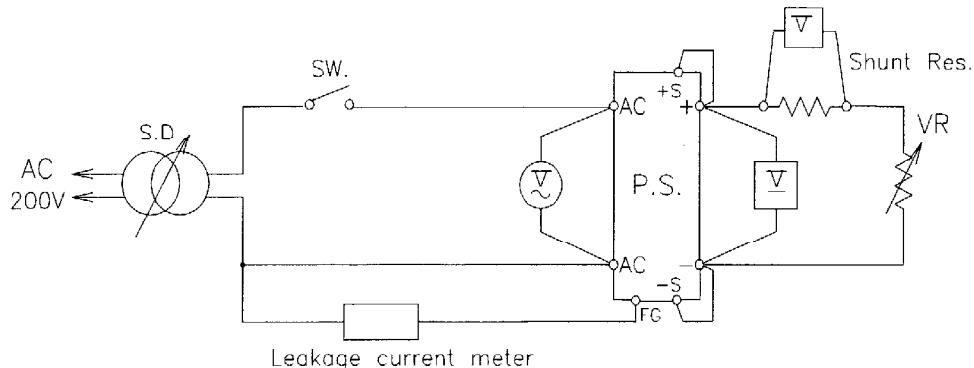
Inrush current characteristics



NEMIC-LAMBDA

(12) リーク電流

Leakage current characteristics



NOTE : Leakage current measured through a 1k ohm resistor.

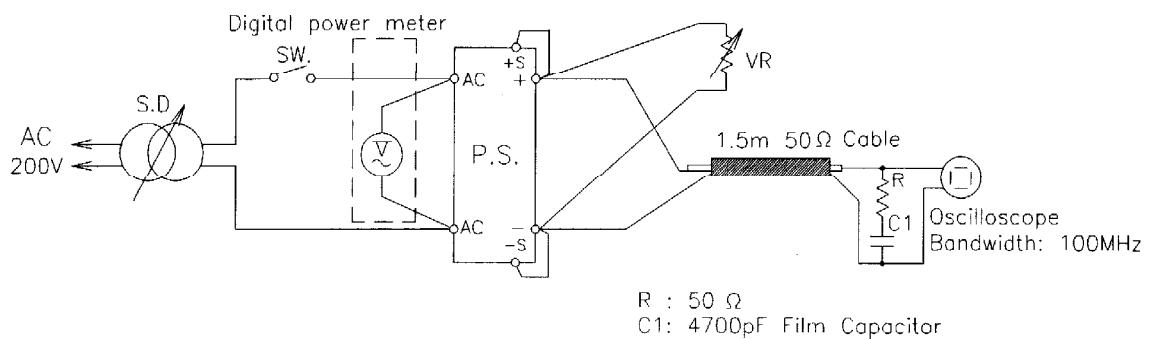
Range used---AC+DC (For YOKOGAWA TYPE 3226)

---AC (For SIMPSON MODEL 229-2)

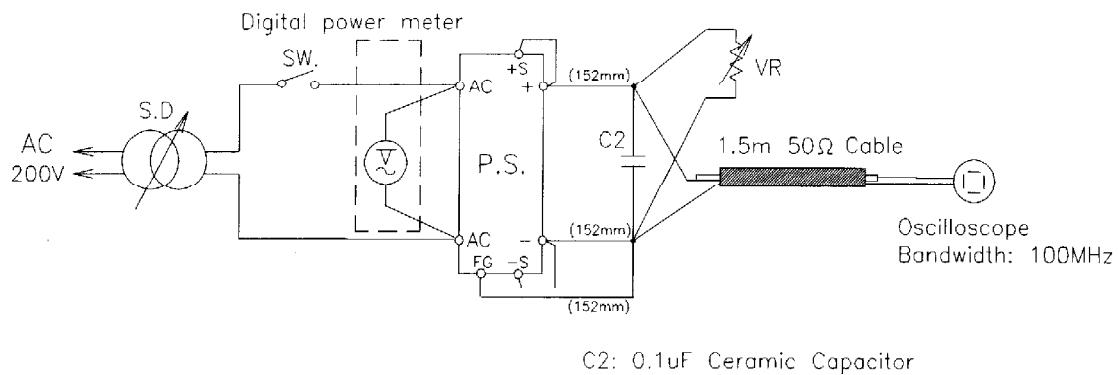
(13) 出力リップルノイズ

Output ripple and noise waveform

(a) Normal Mode



(b) Normal + Common Mode

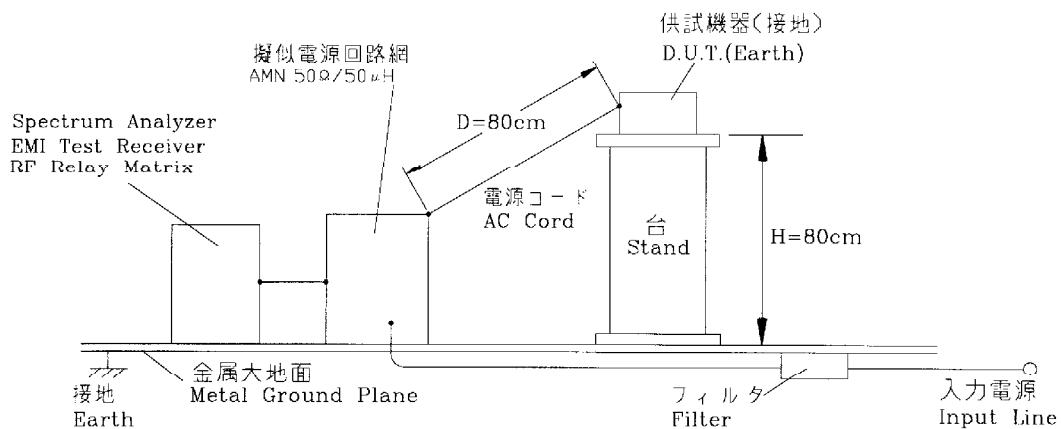


(14) EMI 特性

Electro-Magnetic Interference characteristics

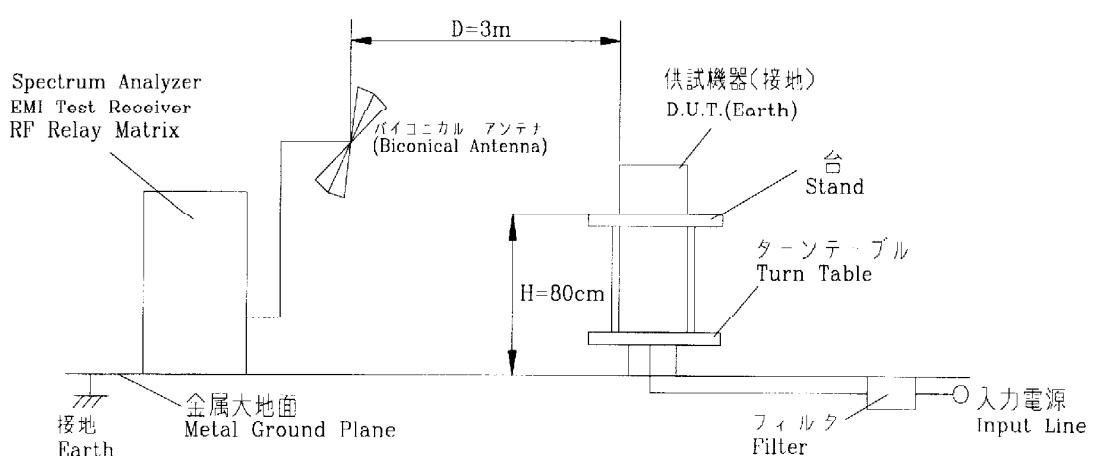
(a) 雜音端子電圧 (帰還ノイズ)

Conducted Emission Noise



(b) 雜音電界強度 (輻射ノイズ)

Radiated Emission Noise



NEMIC-LAMBDA

1.2 使用測定機器 LIST OF EQUIPMENT USED

	EQUIPMENT USED	MANUFACTURER	MODEL NO.
1	OSCILLOSCOPE	HITACHI DENSHI	V-1100A
2	DIGITAL STORAGE OSCILLOSCOPE	TEKTRONIX	TDS540B
3	DIGITAL MULTIMETER	ADVANTEST	R6341A
4	DIGITAL POWER METER	YOKOGAWA ELECT.	WT110
5	SHUNT RESISTOR	YOKOGAWA ELECT.	2215
6	CURRENT PROBE/AMPLIFIER	TEKTRONIX	A6303/AM503
7	DYNAMIC DUMMY LOAD	TAKASAGO	FK-1000L
8	SLIDE REGULATOR	MATSUNAGA	SD-2625
9	CVCF	KIKUSUI	PCR4000L
10	LEAKAGE CURRENT METER	SIMPSON	229-2
11	LEAKAGE CURRENT METER	YOKOGAWA	TYPE3226
12	X-Y RECORDER	GRAPHTEC	WX3000-1
13	DYNAMIC DIP SIMULATOR	TAKAMISAWA CYBERNETICS	PSA-300
14	CONTROLLED TEMP. CHAMBER	TABAI ESPEC	PSL 2KPH A
15	SPECTRUM ANALYZER	ROHDE & SCHWARZ	FSA
16	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESHS10
17	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESVS10
18	RF RELAY MATRIX	ROHDE & SCHWARZ	PSU
19	AMN	KYORITU DENSHI	KNW-242
20	ANTENA(BICONICAL ANTENA)	SCHWARZBECK	BBA9106

2. 特性データ Characteristics

2.1 静特性 Steady state data

(1) 入力、負荷、温度変動 Regulation - line and load, temperature drift

5V		1. Regulation - line and load					condition Ta : 25°C		
		Iout \ Vin		85VAC	100VAC	200VAC	265VAC	line regulation	
		0%		5.009V	5.009V	5.009V	5.008V	1mV	0.02%
		50%		5.010V	5.010V	5.010V	5.010V	0mV	0.00%
		100%		5.009V	5.009V	5.009V	5.009V	0mV	0.00%
		load regulation		1mV	1mV	1mV	2mV		
				0.02%	0.02%	0.02%	0.04%		

2. Temperature drift

conditions Vin=100VAC
Io =100%

Ta	-10°C	+25°C	+50°C	temperature stability	
	V _o	4.998V	5.009V	5.017V	19mV 0.38%

12V		1. Regulation - line and load					condition Ta : 25°C		
		Iout \ Vin		85VAC	100VAC	200VAC	265VAC	line regulation	
		0%		12.101V	12.102V	12.100V	12.098V	4mV	0.03%
		50%		12.107V	12.107V	12.107V	12.106V	1mV	0.01%
		100%		12.107V	12.107V	12.107V	12.107V	0mV	0.00%
		load regulation		6mV	5mV	7mV	9mV		
				0.05%	0.04%	0.06%	0.08%		

2. Temperature drift

conditions Vin=100VAC
Io =100%

Ta	-10°C	+25°C	+50°C	temperature stability	
	V _o	12.078V	12.107V	12.147V	69mV 0.58%

24V		1. Regulation - line and load					condition Ta : 25°C		
		Iout \ Vin		85VAC	100VAC	200VAC	265VAC	line regulation	
		0%		24.016V	24.016V	24.011V	24.008V	8mV	0.033%
		50%		24.024V	24.024V	24.025V	24.024V	1mV	0.004%
		100%		24.025V	24.025V	24.025V	24.025V	0mV	0.000%
		load regulation		9mV	9mV	14mV	17mV		
				0.04%	0.04%	0.06%	0.07%		

2. Temperature drift

conditions Vin=100VAC
Io =100%

Ta	-10°C	+25°C	+50°C	temperature stability	
	V _o	23.962V	24.025V	24.065V	103mV 0.43%

48V		1. Regulation - line and load					condition Ta : 25°C		
		Iout \ Vin		85VAC	100VAC	200VAC	265VAC	line regulation	
		0%		48.183V	48.193V	48.193V	48.183V	10mV	0.021%
		50%		48.221V	48.221V	48.222V	48.222V	1mV	0.002%
		100%		48.223V	48.223V	48.223V	48.223V	0mV	0.000%
		load regulation		40mV	30mV	30mV	40mV		
				0.08%	0.06%	0.06%	0.08%		

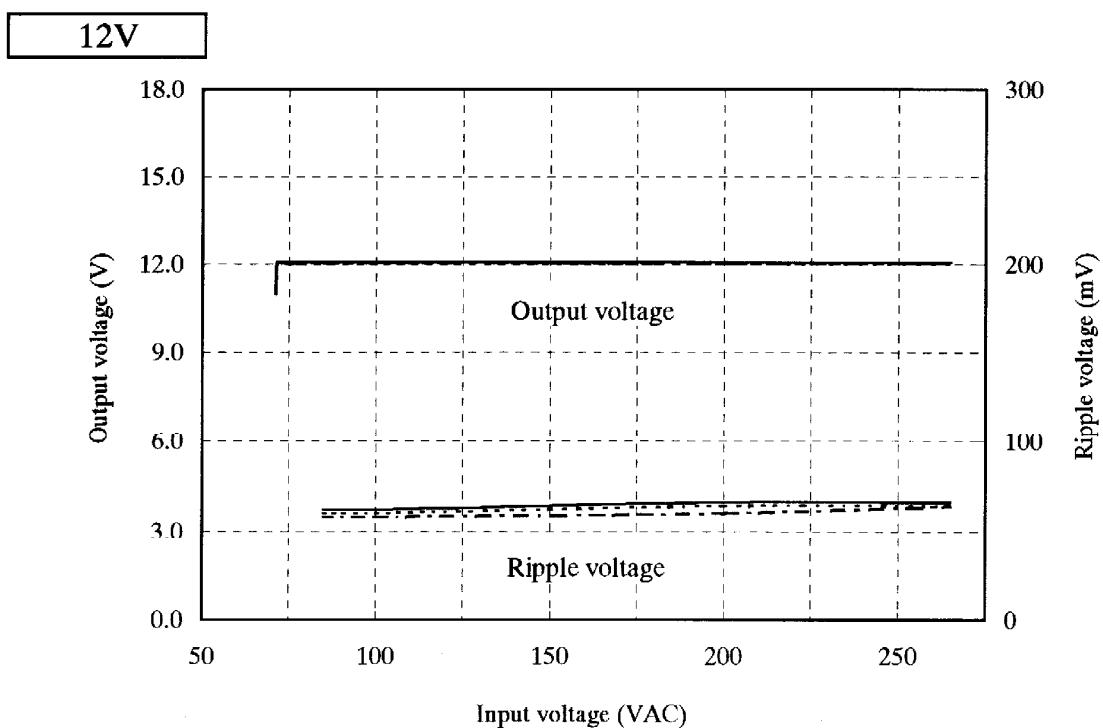
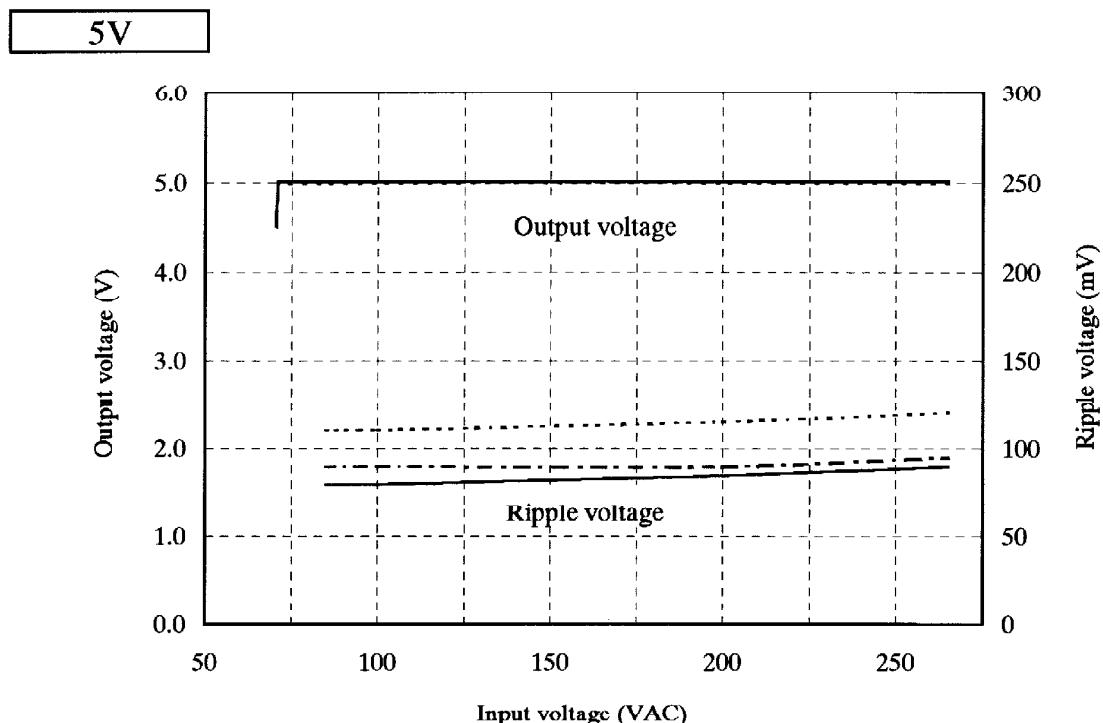
2. Temperature drift

conditions Vin=100VAC
Io =100%

Ta	-10°C	+25°C	+50°C	temperature stability	
	V _o	48.015V	48.223V	48.385V	370mV 0.77%

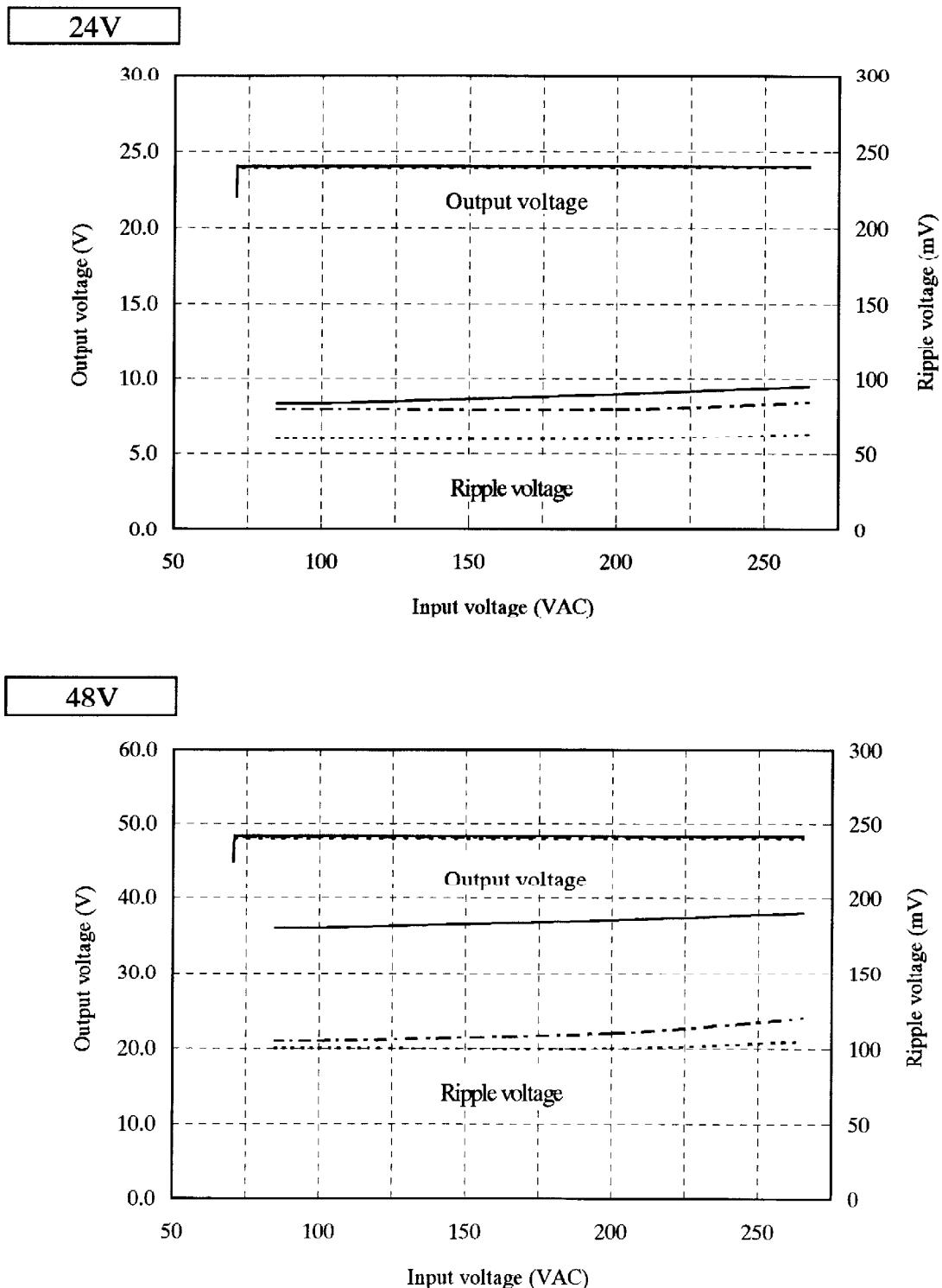
2.1 (2) 出力電圧、リップル電圧対入力電圧
 Output voltage and Ripple voltage v.s. Input voltage

Conditions Iout : 100%
 Ta : -10°C
 : 25°C - - -
 : 50°C ———



2.1 (2) 出力電圧、リップル電圧対入力電圧
 Output voltage and Ripple voltage v.s. Input voltage

Conditions Iout : 100%
 Ta : -10°C
 : 25°C - - -
 : 50°C —

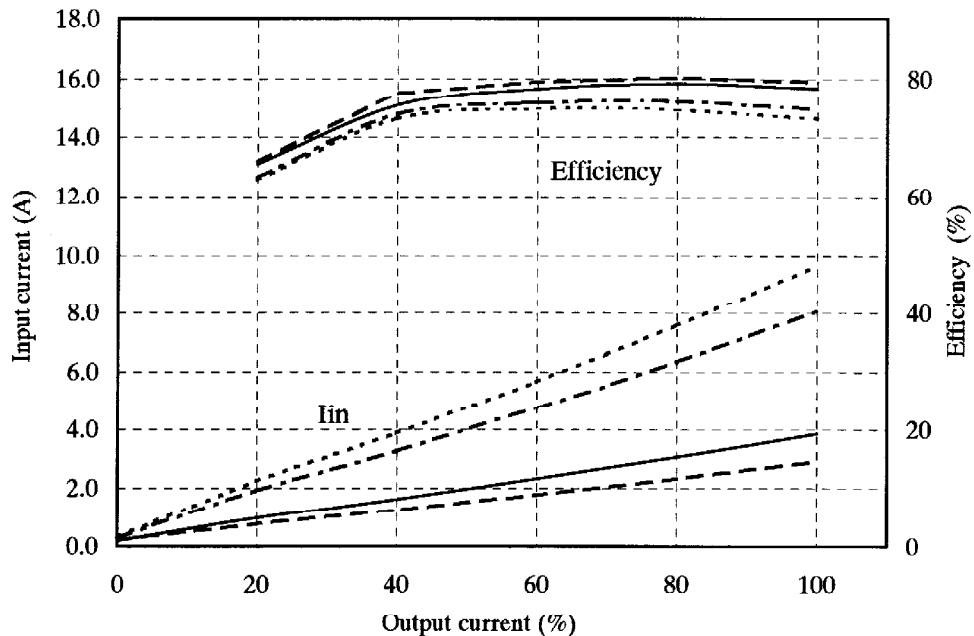


2.1 (3) 効率、入力電流対出力電流

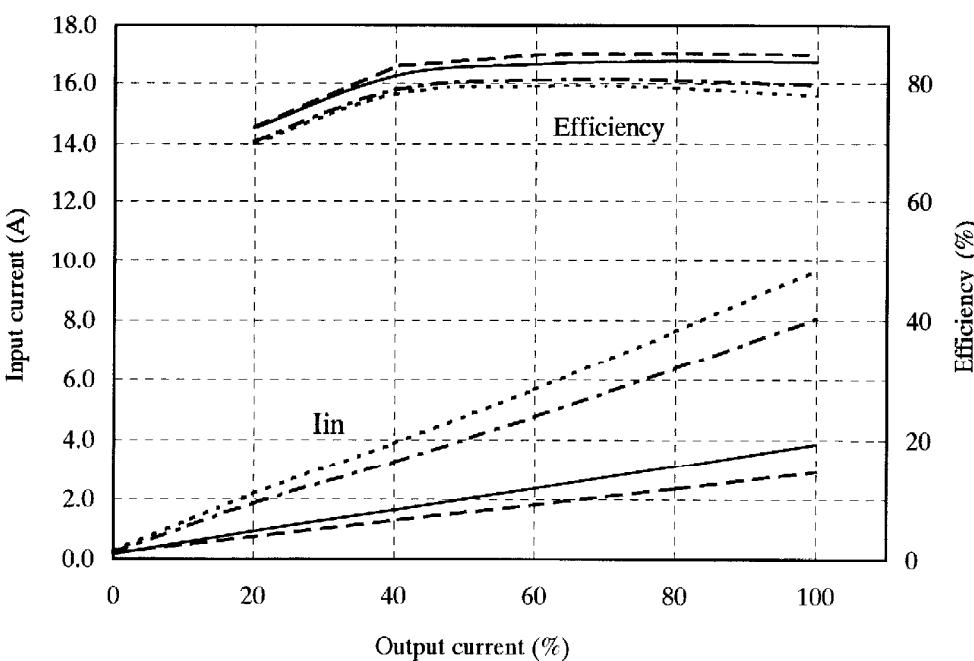
Efficiency and Input current v.s. Output current

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

5V



12V

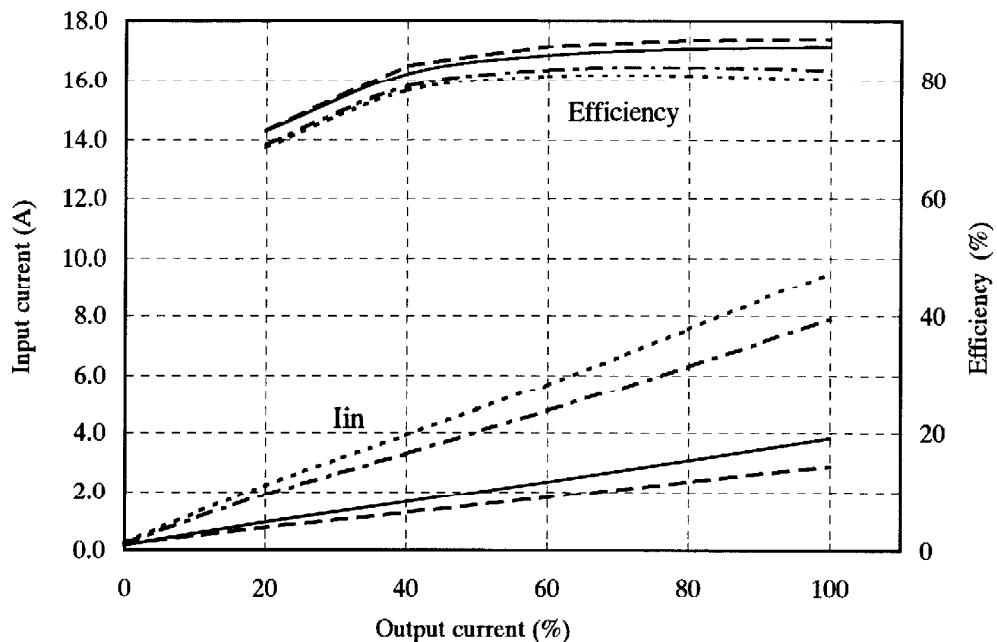


2.1 (3) 効率、入力電流対出力電流

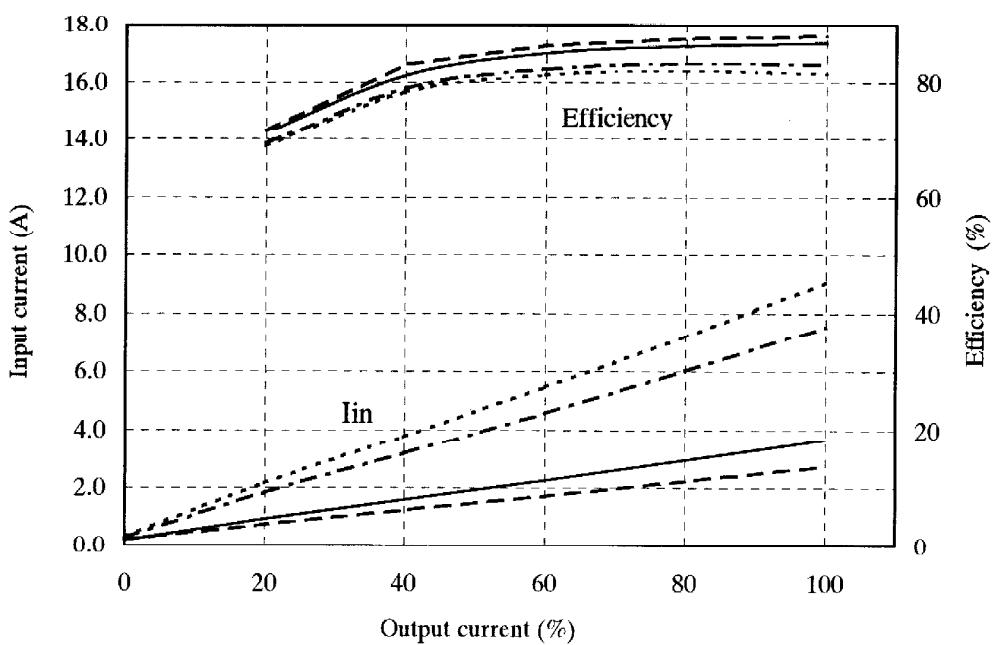
Efficiency and Input current v.s. Output current

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

24V



48V

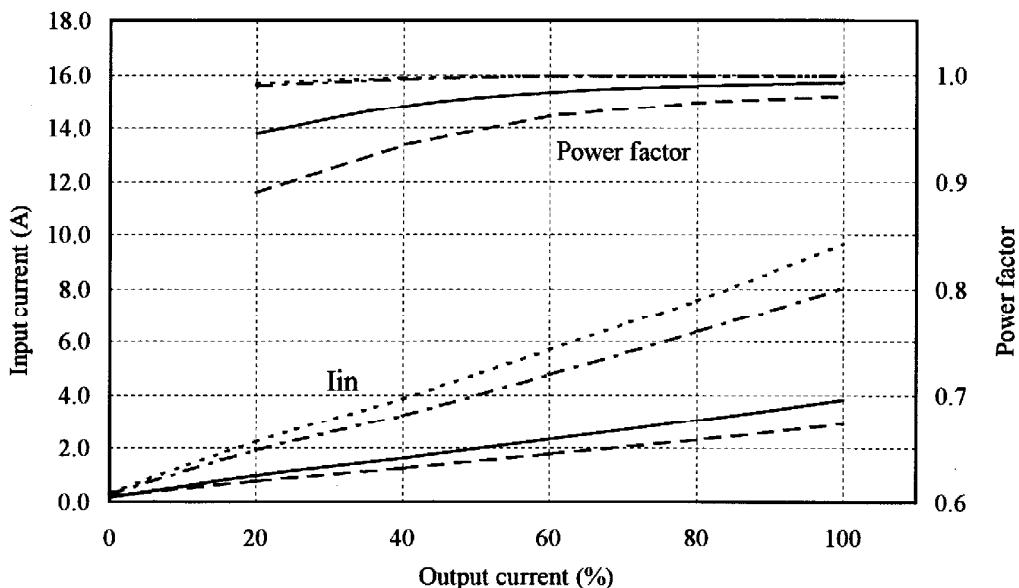


2.1 (4) 力率、入力電流対出力電流

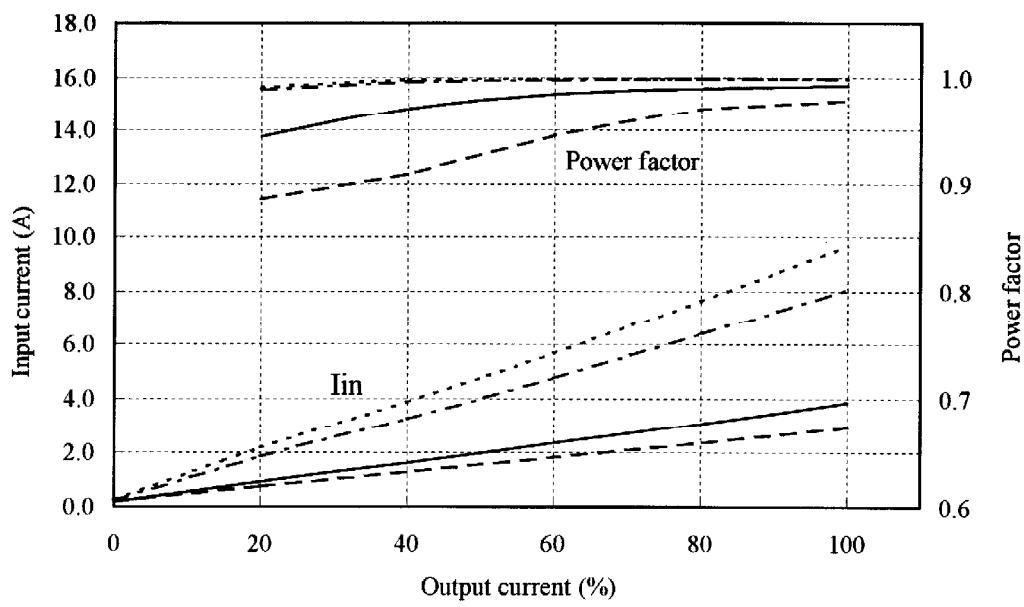
Power factor and Input current v.s. Output current

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

5V



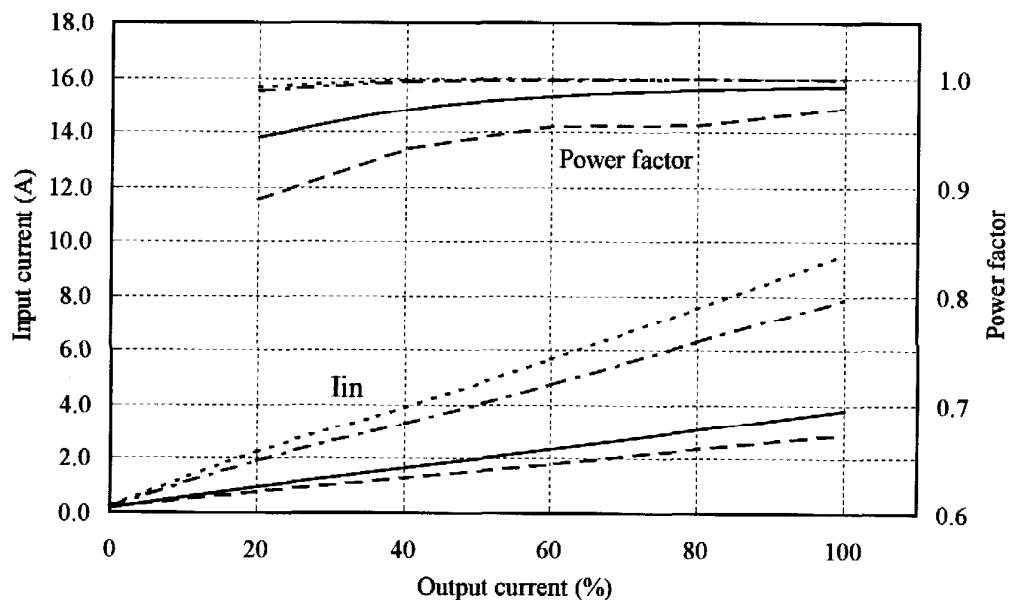
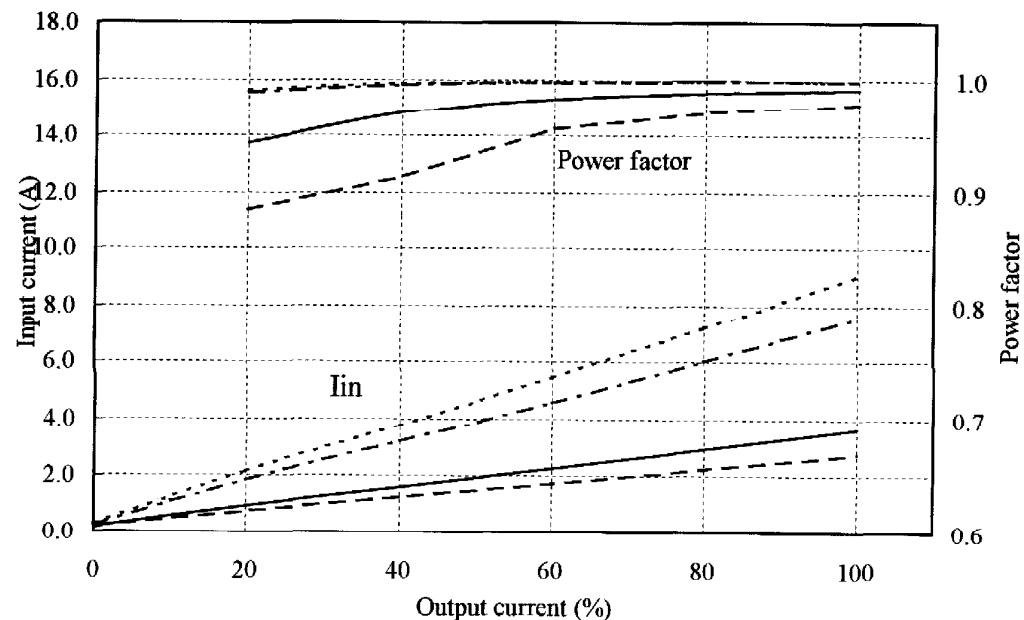
12V



2.1 (4) 力率、入力電流対出力電流

Power factor and Input current v.s. Output current

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

24V**48V**

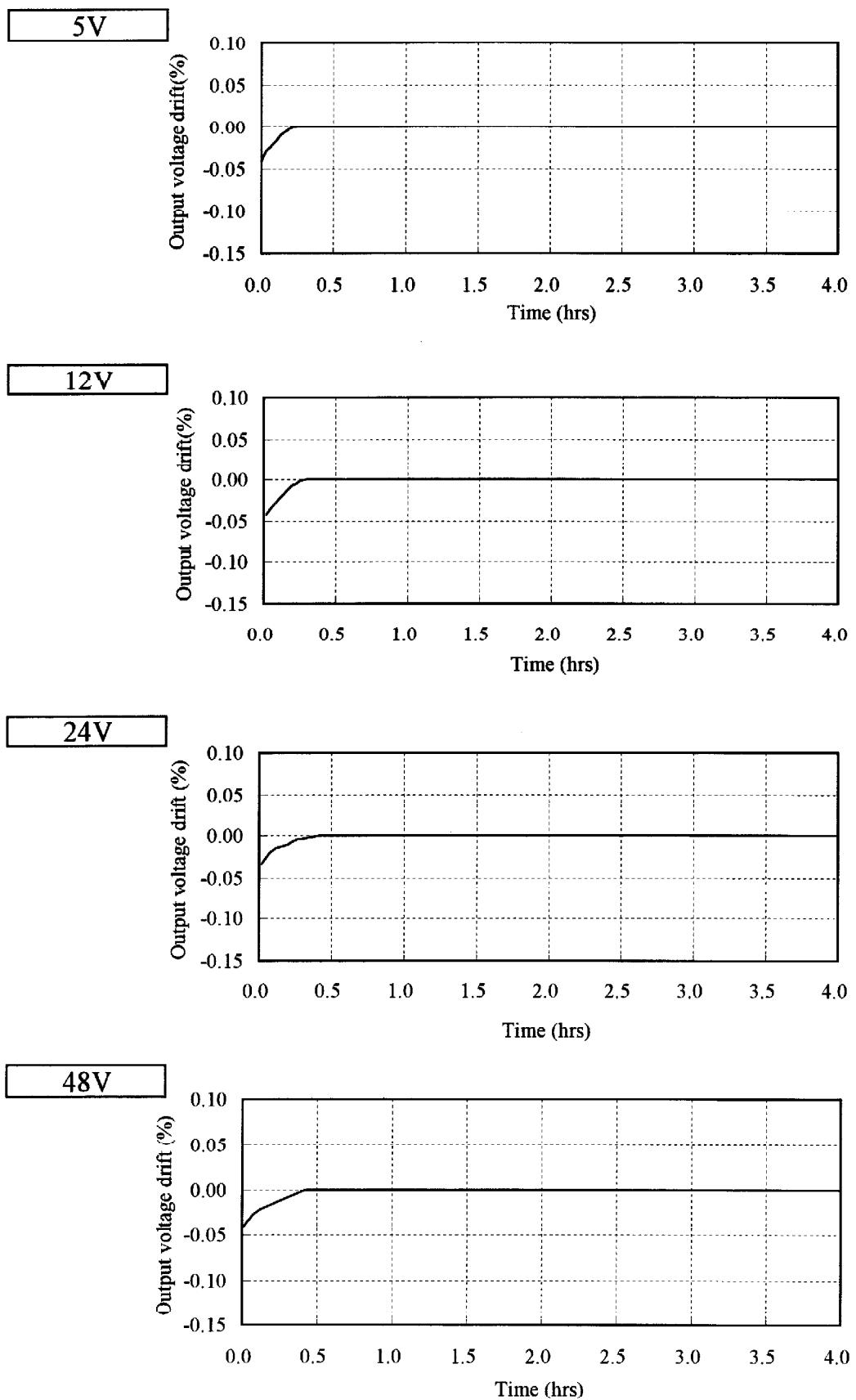
2.2 通電ドリフト特性

Warm up voltage drift characteristics

Conditions Vin : 100VAC

Io : 100%

Ta : 25°C

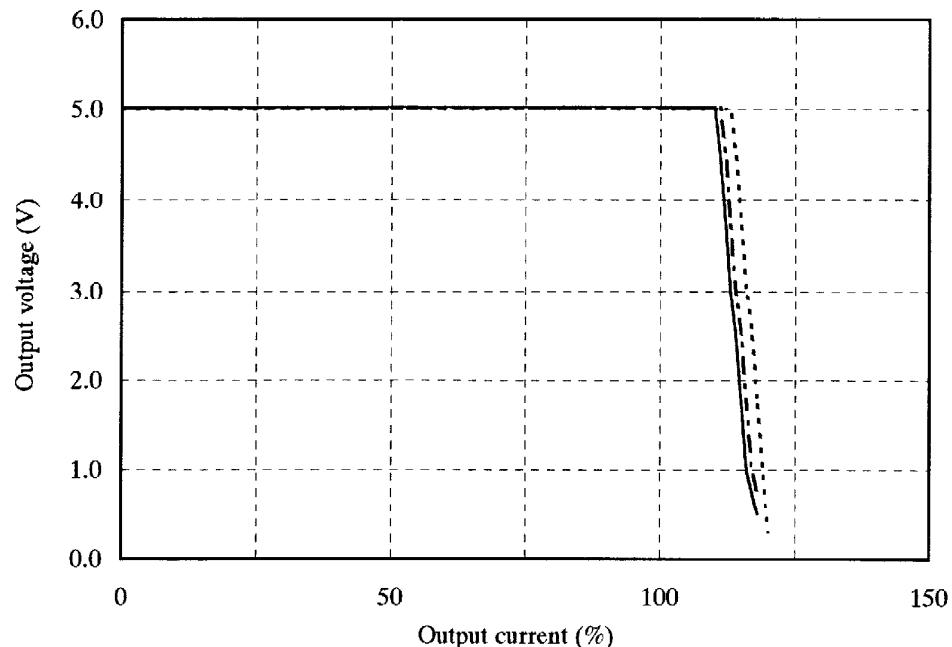
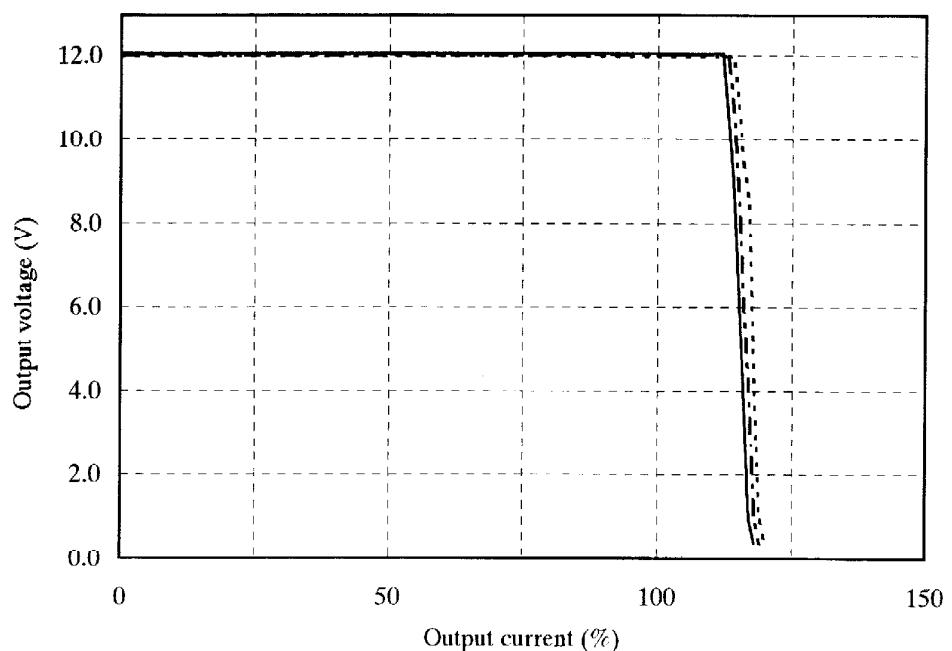


2.3 過電流保護特性

Over current protection (OCP) characteristics

Conditions Ta : -10°C
..... : 25°C
..... : 50°C _____

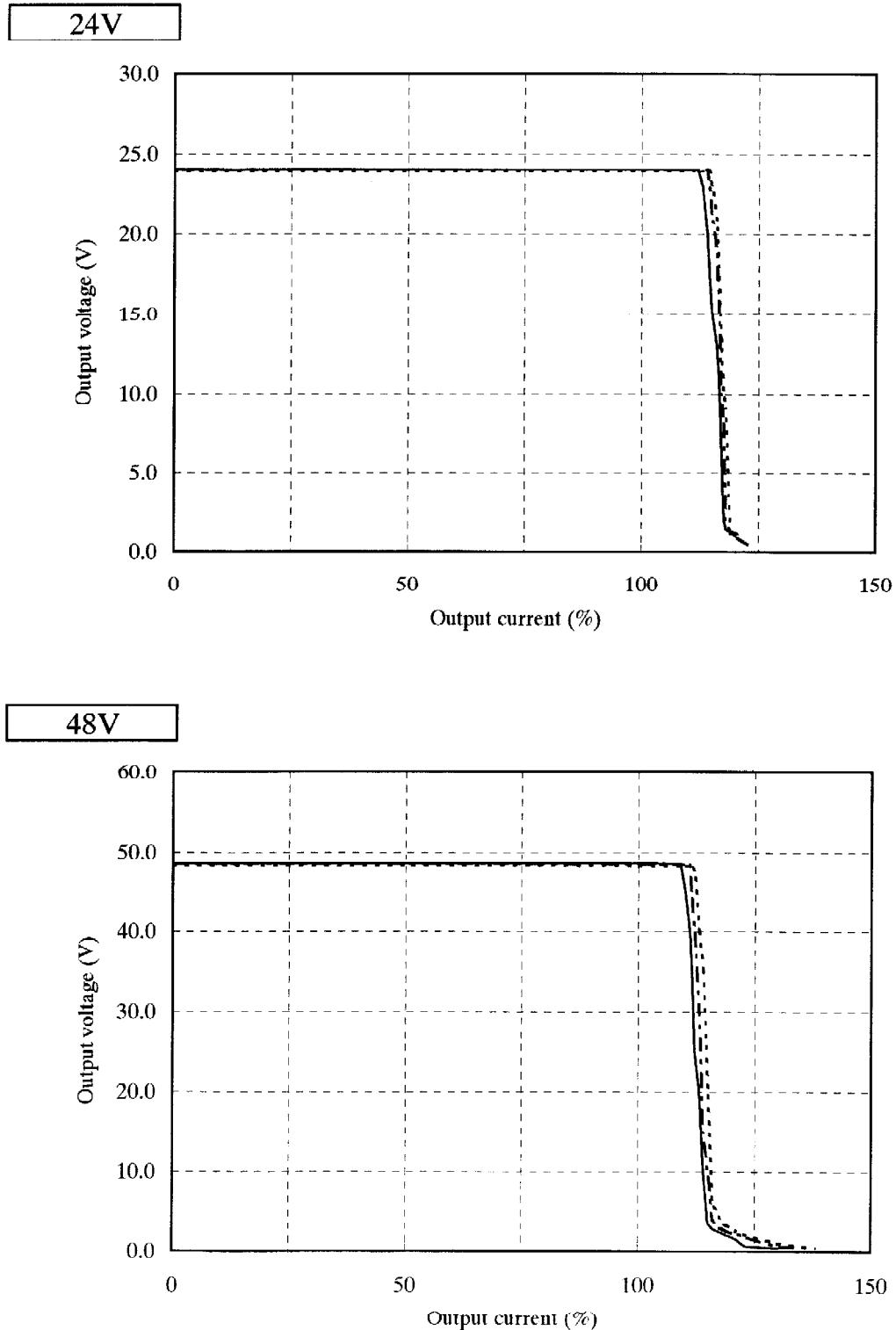
Vin : 85-265VAC

5V**12V**

2.3 過電流保護特性

Over current protection (OCP) characteristics

Conditions Ta : -10°C
: 25°C
: 50°C
Vin : 85-265VAC



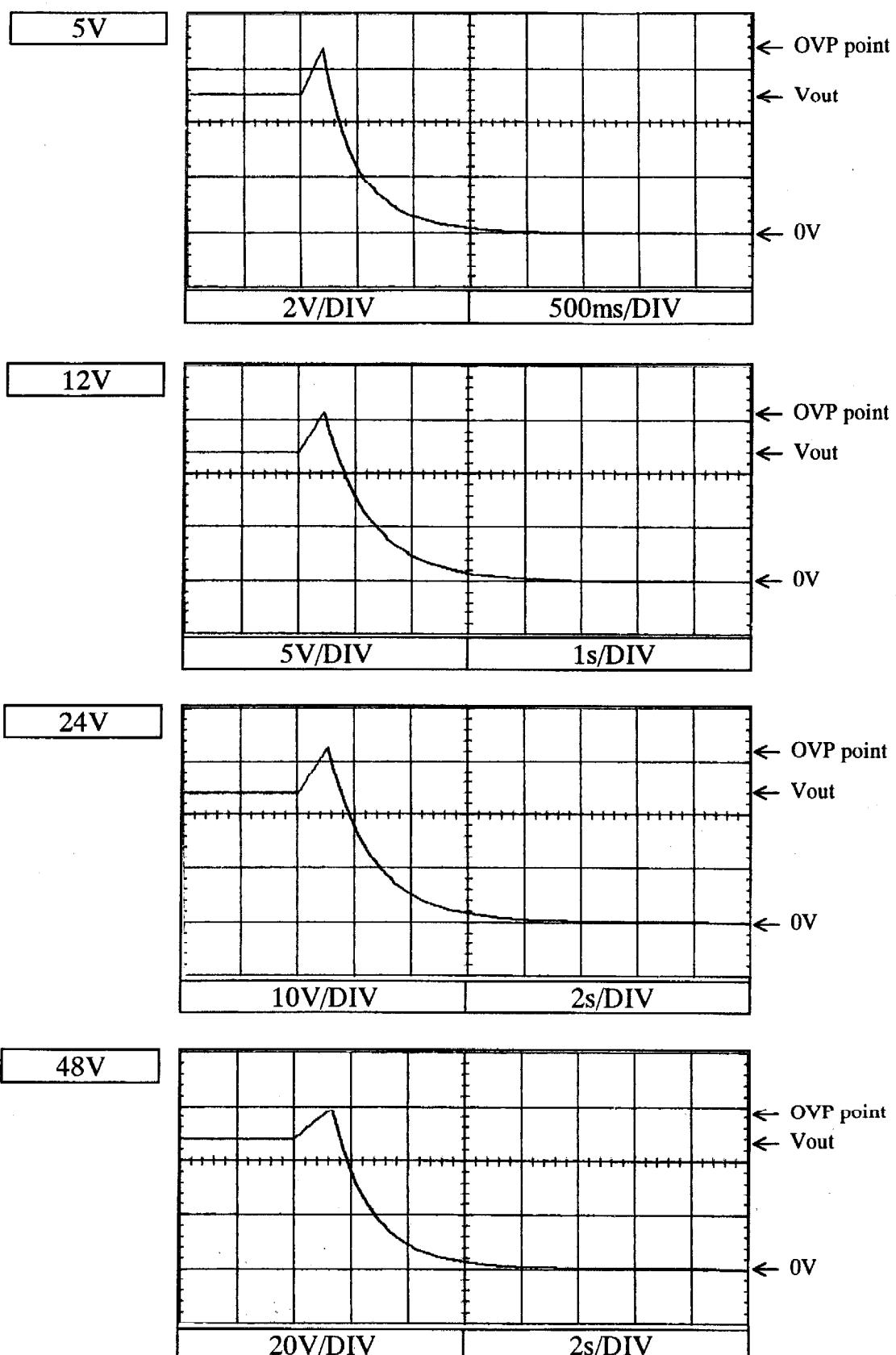
2.4 過電圧保護特性

Over voltage protection (OVP) characteristics

Conditions Vin : 100VAC

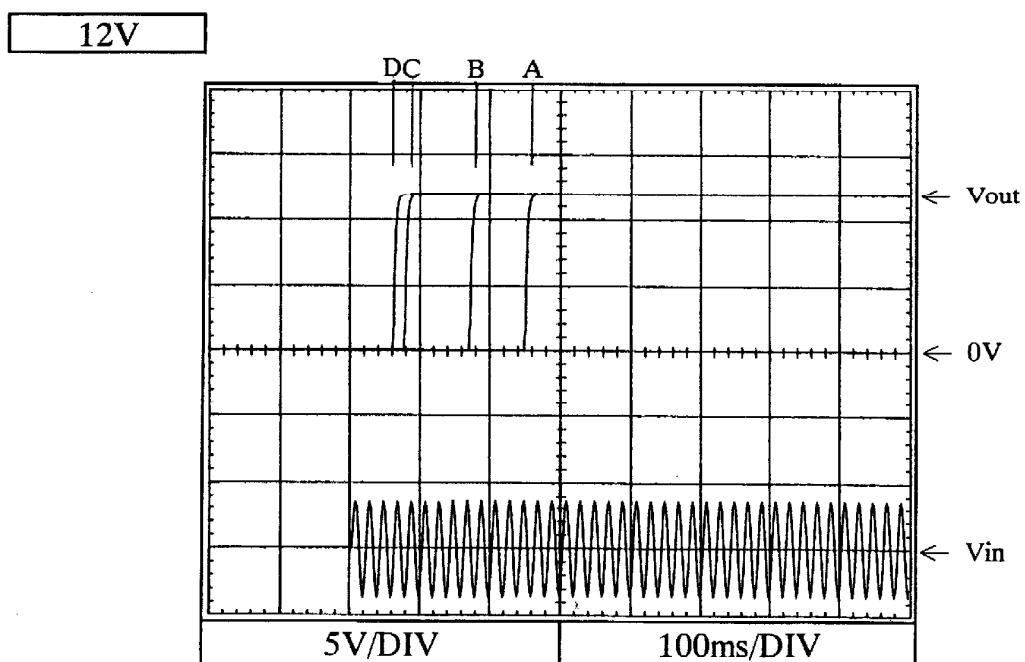
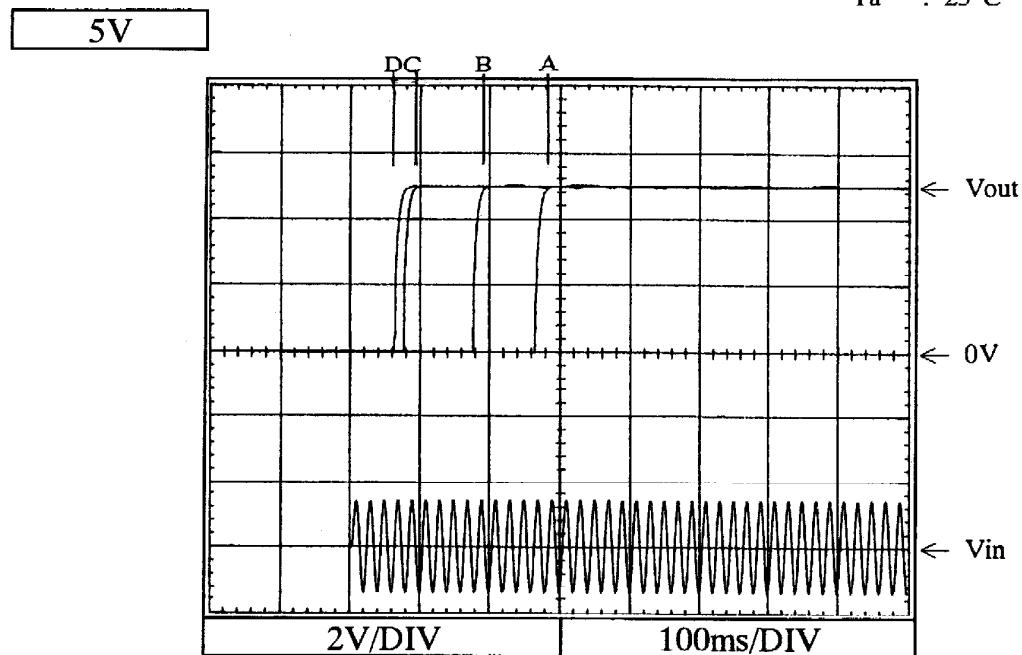
Iout : 0%

Ta : 25°C



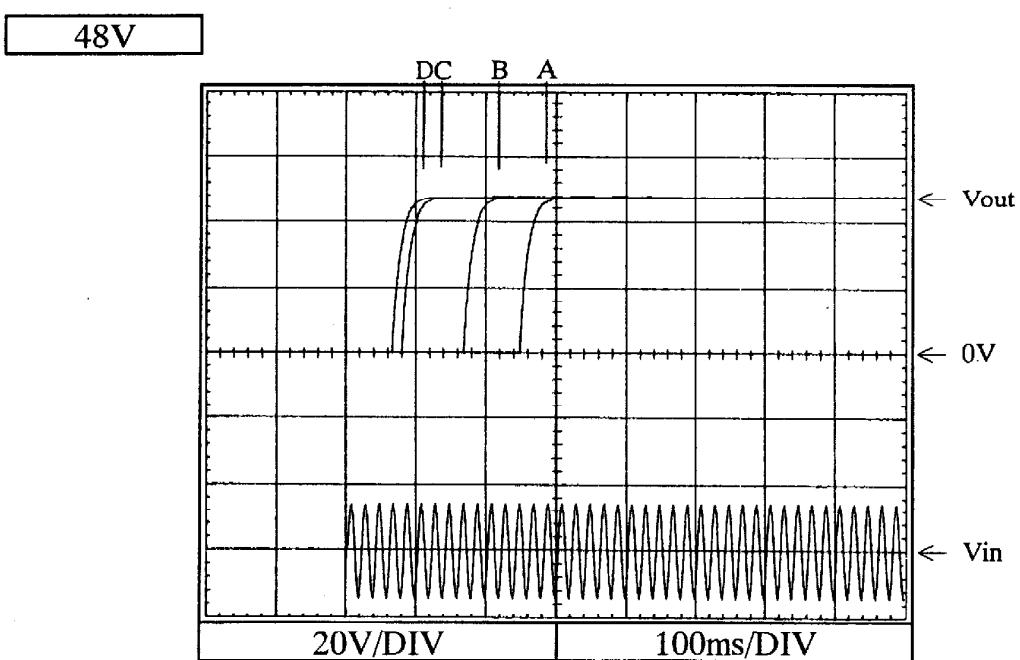
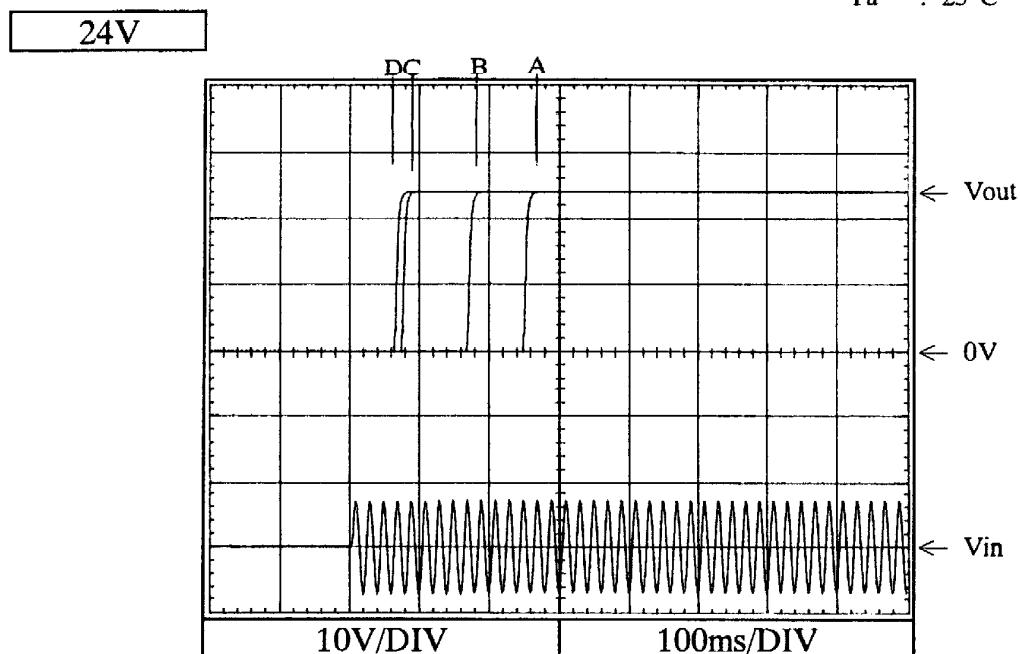
2.5 出力立ち上がり特性
Output rise characteristics

Conditions Vin : 85VAC (A)
 : 100VAC (B)
 : 200VAC (C)
 : 265VAC (D)
Iout : 0%
Ta : 25°C



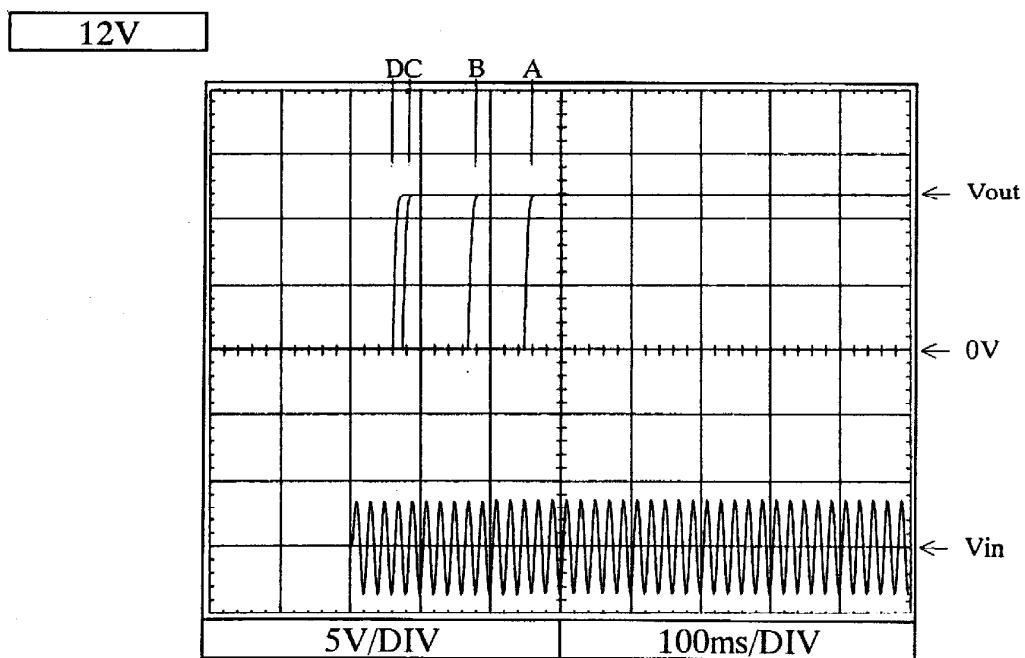
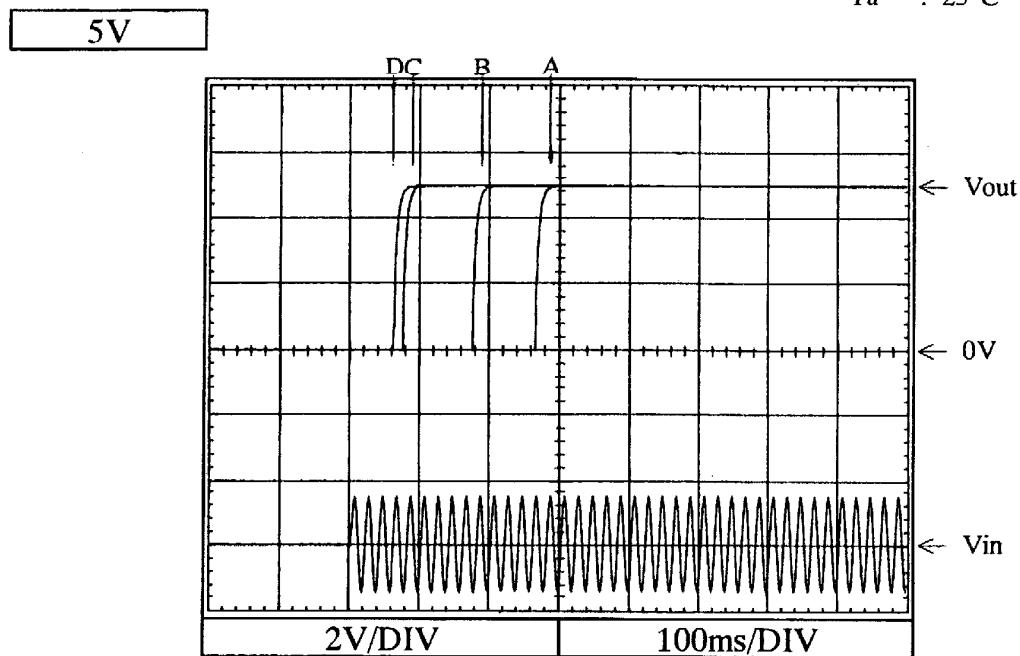
2.5 出力立ち上がり特性
Output rise characteristics

Conditions Vin : 85VAC (A)
 : 100VAC (B)
 : 200VAC (C)
 : 265VAC (D)
 Iout : 0%
 Ta : 25°C



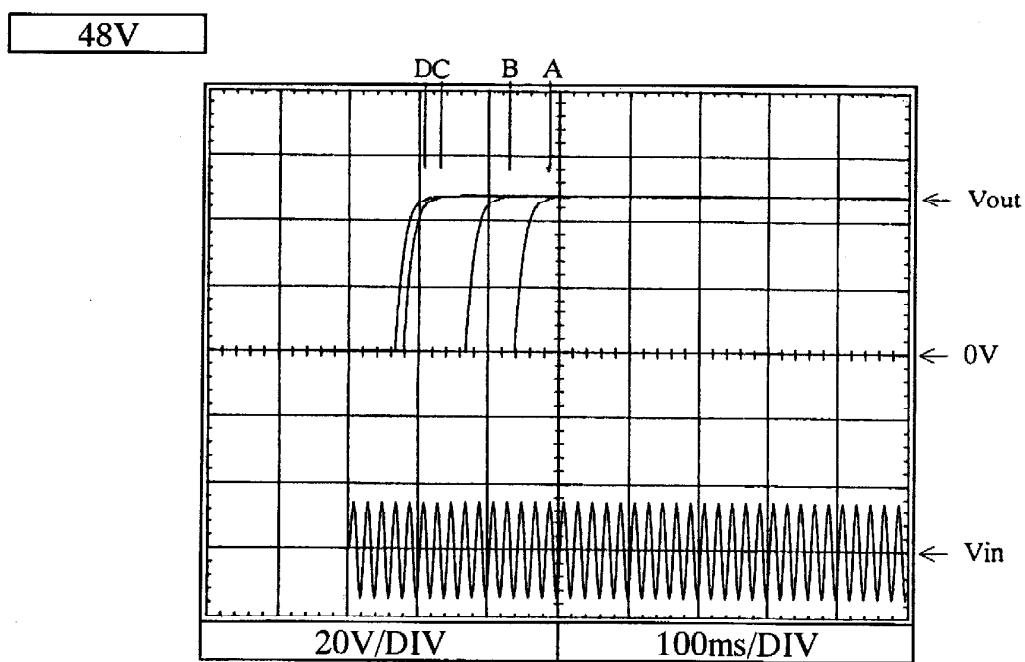
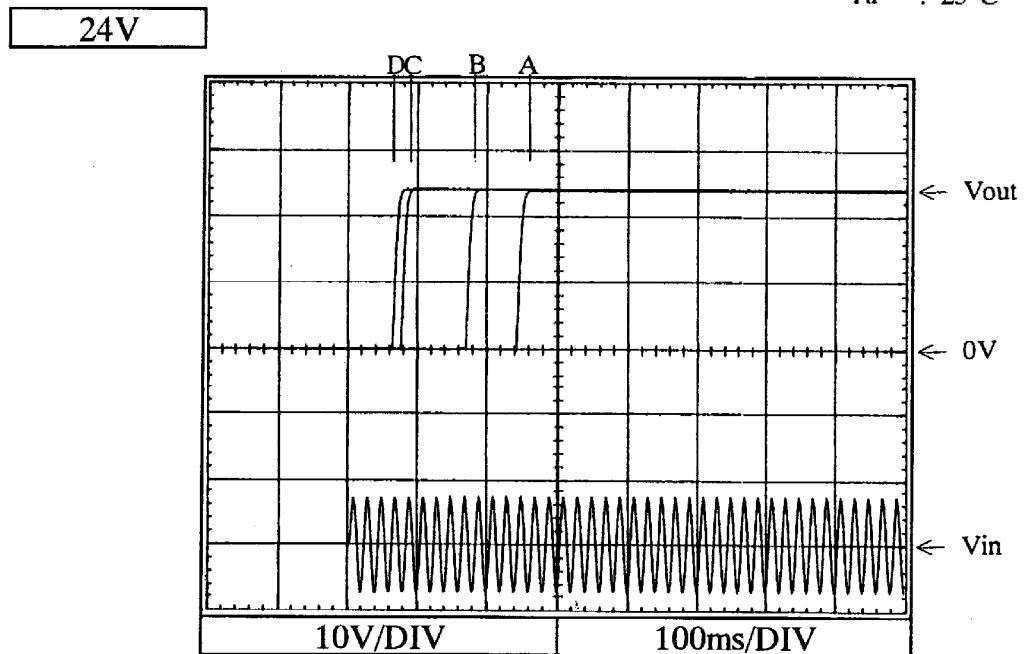
2.5 出力立ち上がり特性
Output rise characteristics

Conditions Vin : 85VAC (A)
 : 100VAC (B)
 : 200VAC (C)
 : 265VAC (D)
Iout : 100%
Ta : 25°C



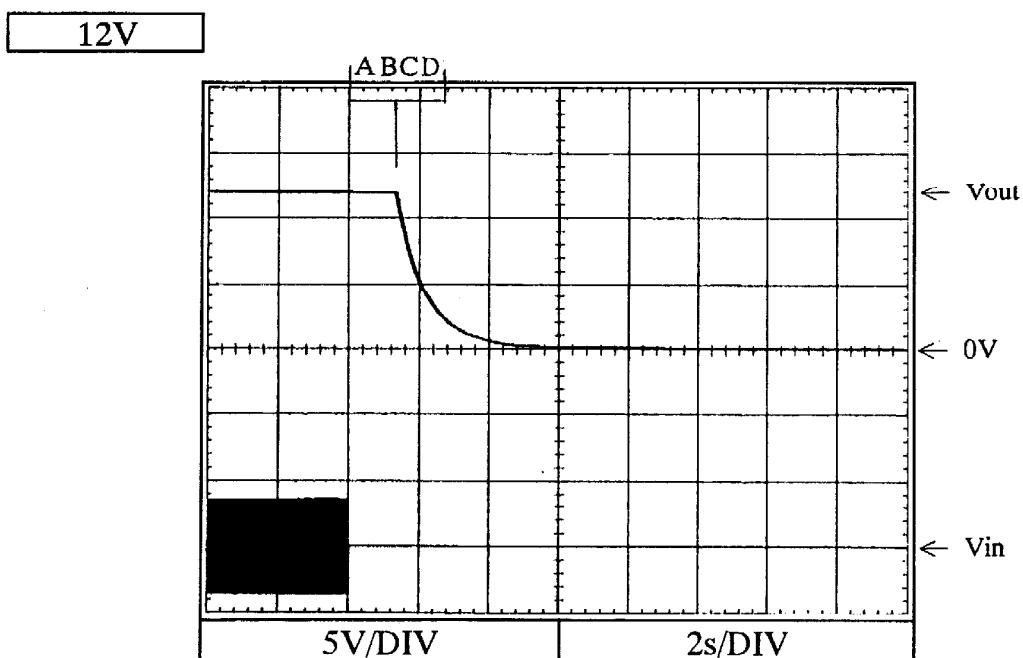
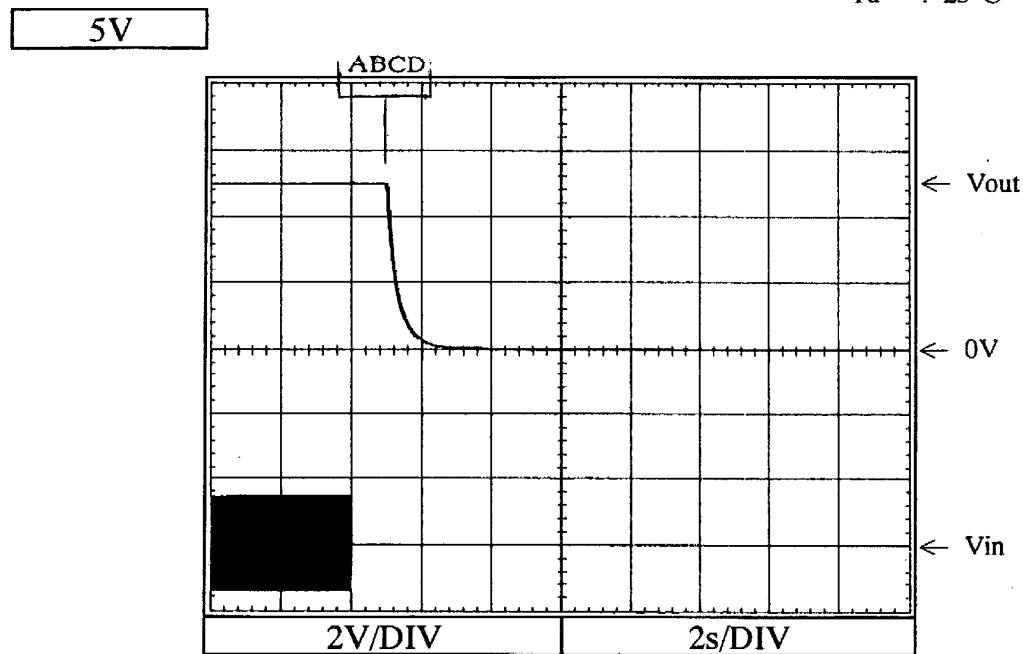
2.5 出力立ち上がり特性
Output rise characteristics

Conditions Vin : 85VAC (A)
 : 100VAC (B)
 : 200VAC (C)
 : 265VAC (D)
Iout : 100%
Ta : 25°C



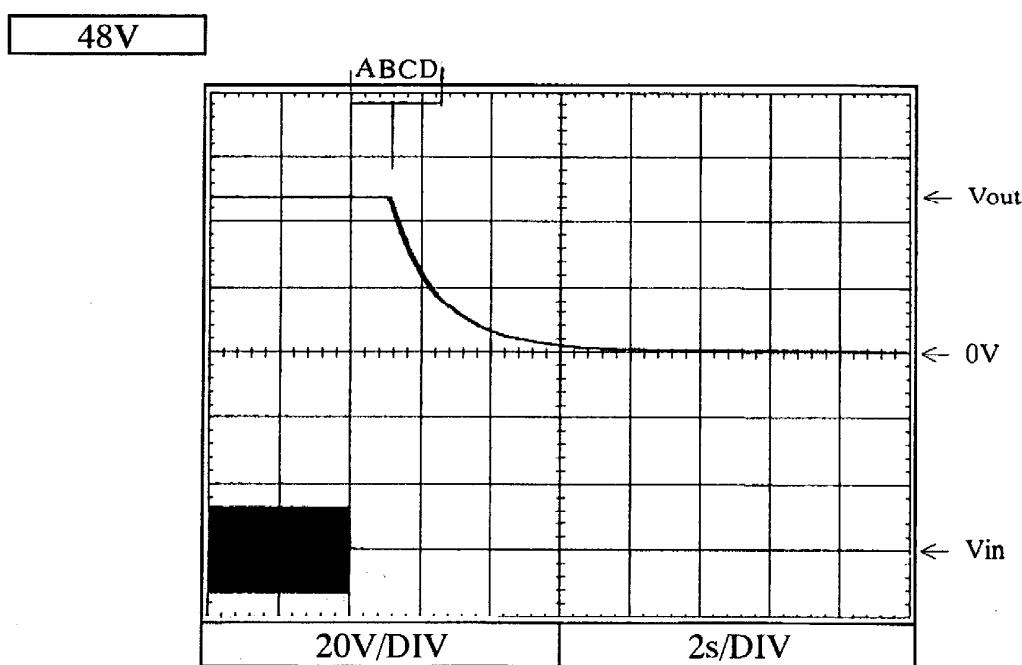
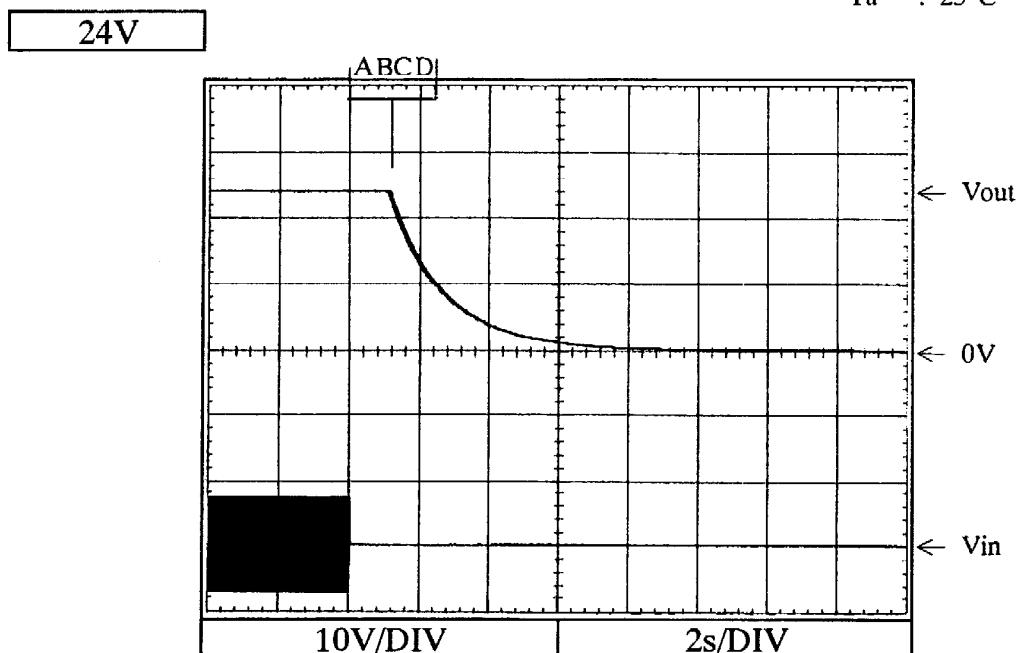
2.6 出力立ち下がり特性
Output fall characteristics

Conditions Vin : 85VAC (A)
 : 100VAC (B)
 : 200VAC (C)
 : 265VAC (D)
Iout : 0%
Ta : 25°C



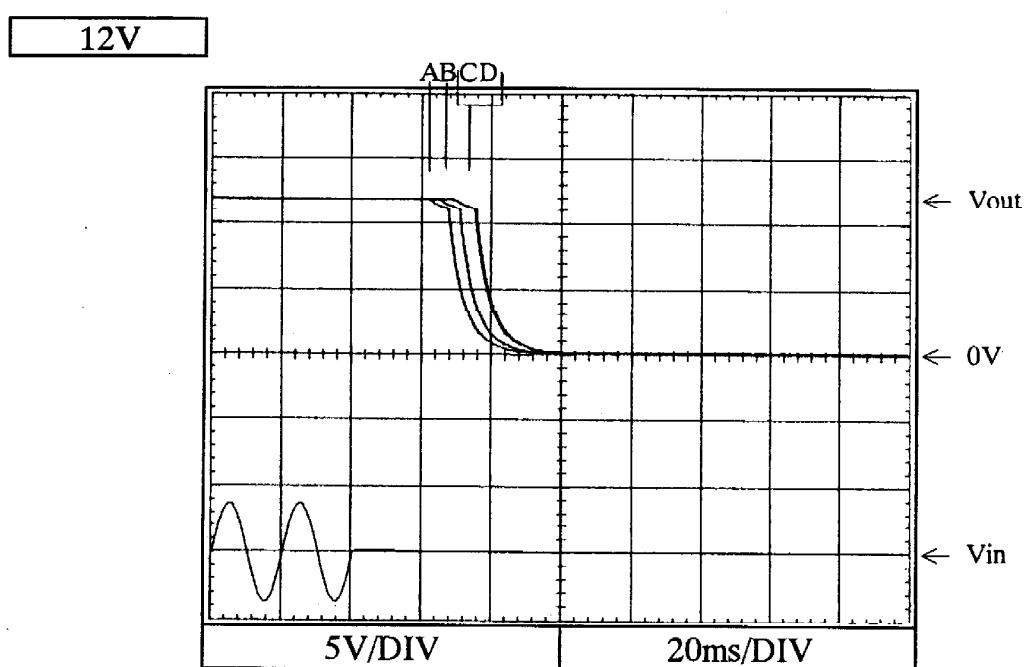
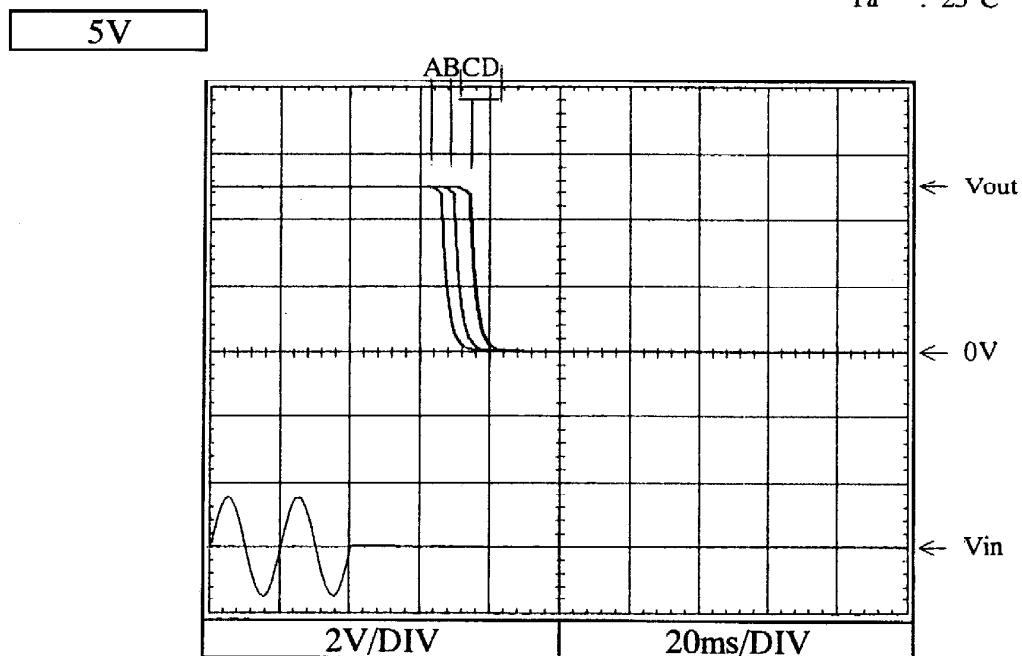
2.6 出力立ち下がり特性
Output fall characteristics

Conditions Vin : 85VAC (A)
 : 100VAC (B)
 : 200VAC (C)
 : 265VAC (D)
Iout : 0%
Ta : 25°C



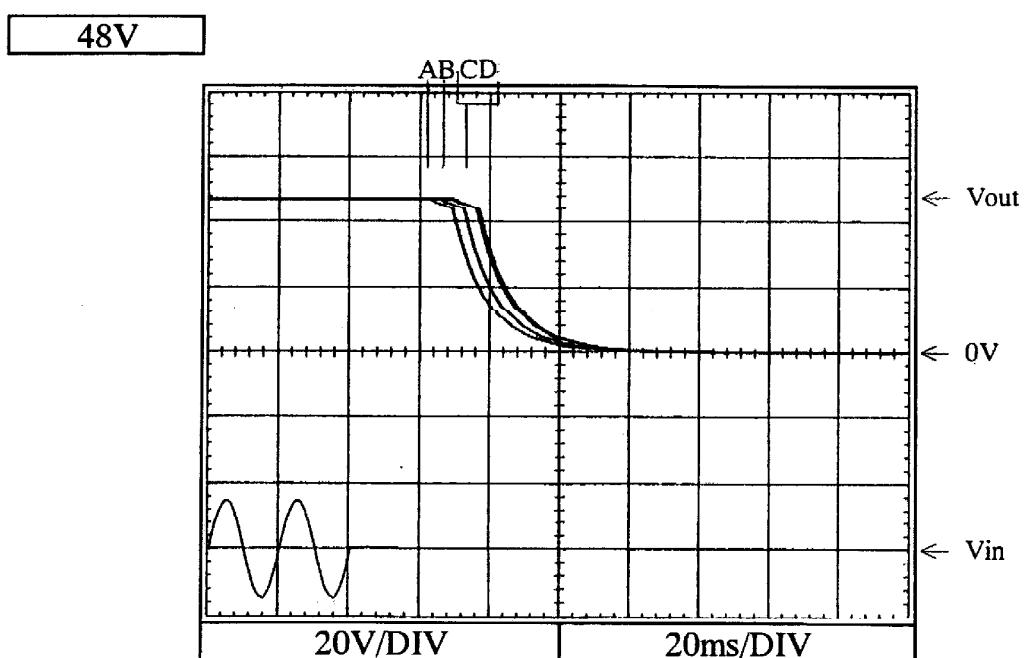
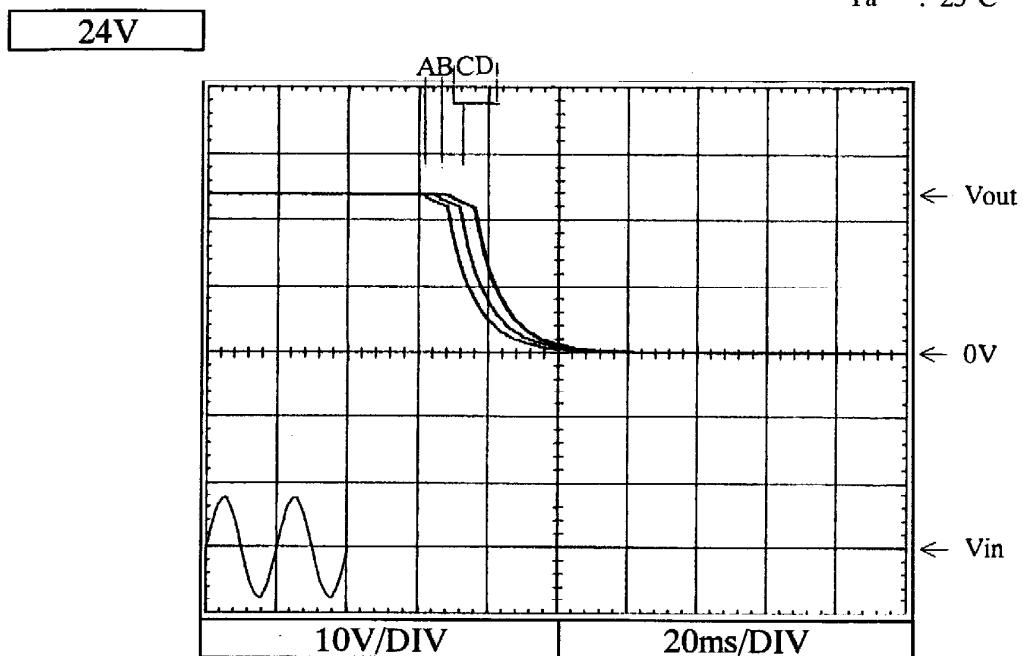
2.6 出力立ち下がり特性
Output fall characteristics

Conditions Vin : 85VAC (A)
 : 100VAC (B)
 : 200VAC (C)
 : 265VAC (D)
Iout : 100%
Ta : 25°C



2.6 出力立ち下がり特性
Output fall characteristics

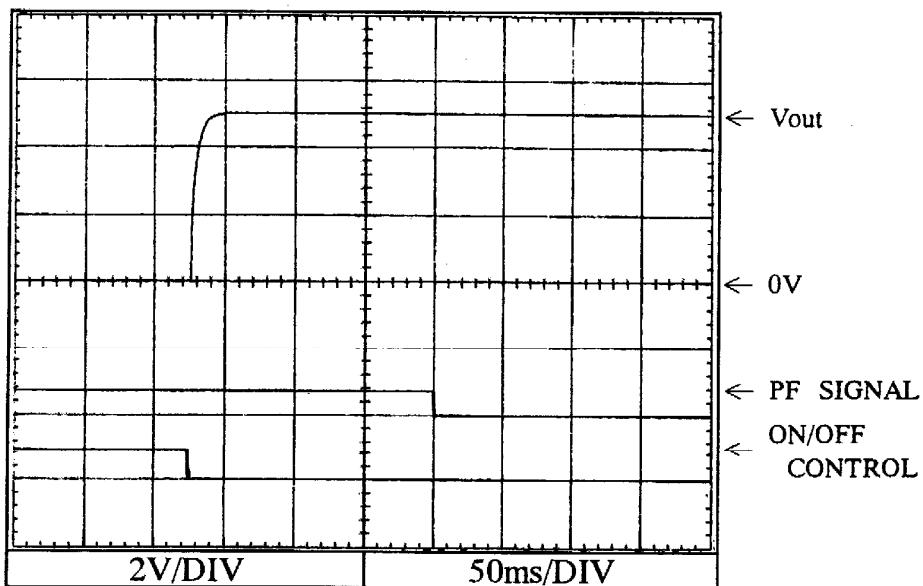
Conditions Vin : 85VAC (A)
 : 100VAC (B)
 : 200VAC (C)
 : 265VAC (D)
Iout : 100%
Ta : 25°C



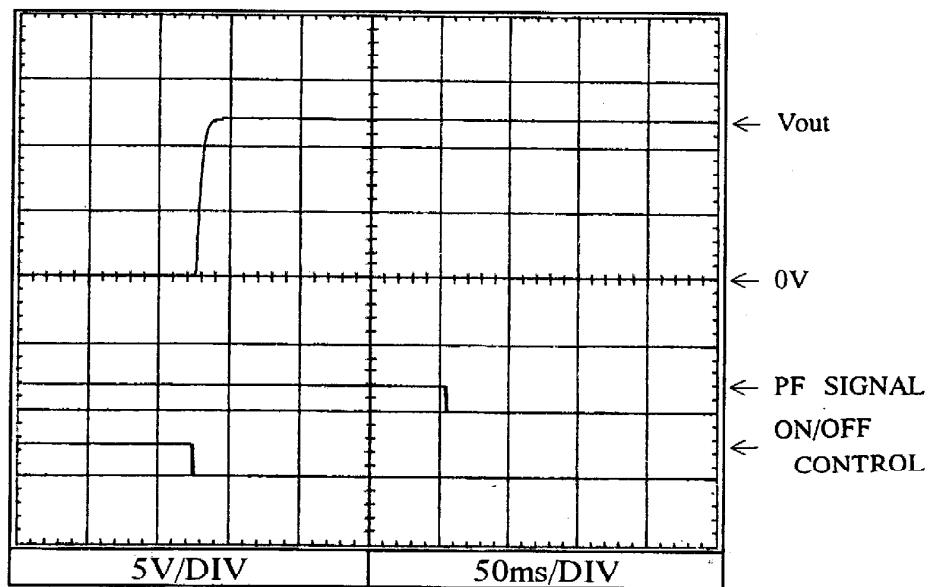
2.7 ON/OFFコントロール時出力立ち上がり特性
Output rise characteristics with ON/OFF CONTROL

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

5V



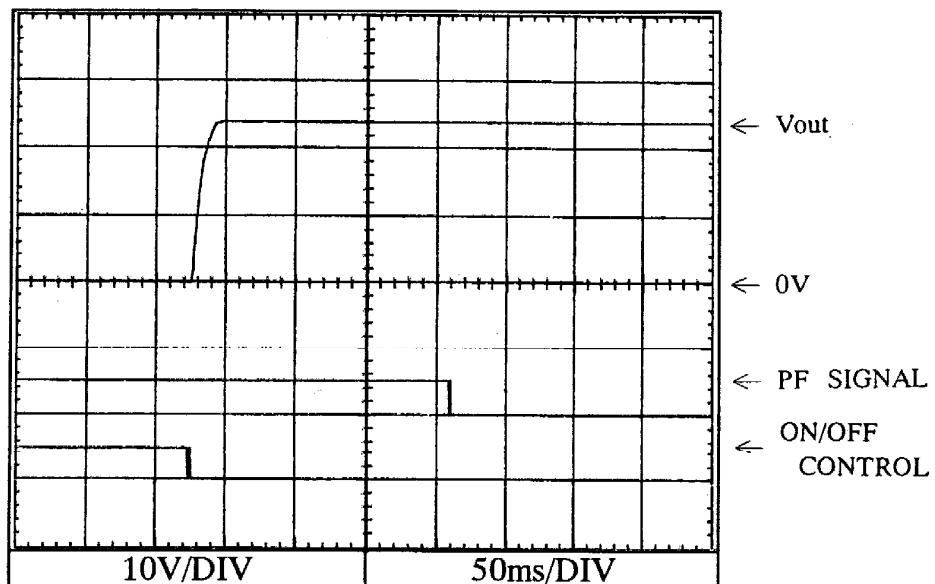
12V



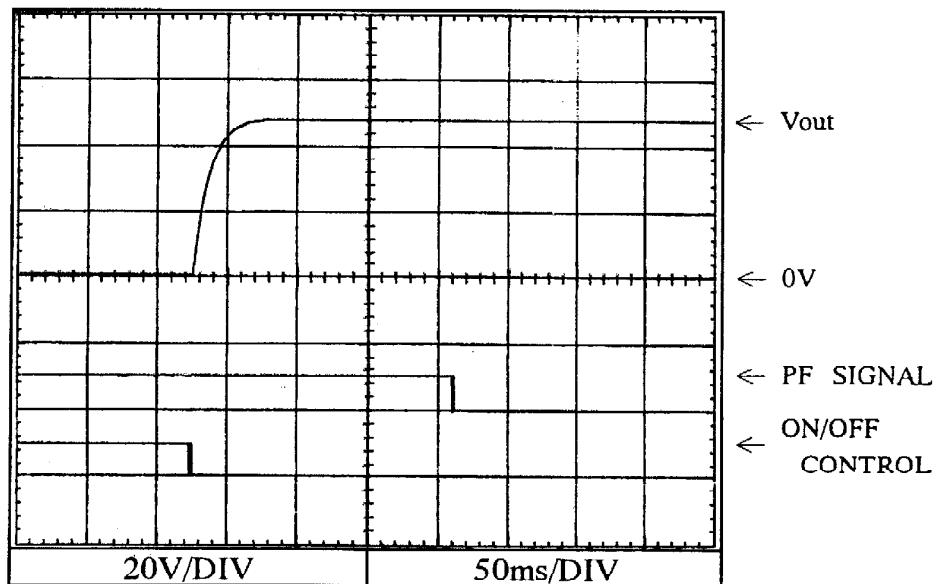
2.7 ON/OFFコントロール時出力立ち上がり特性
Output rise characteristics with ON/OFF CONTROL

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

24V



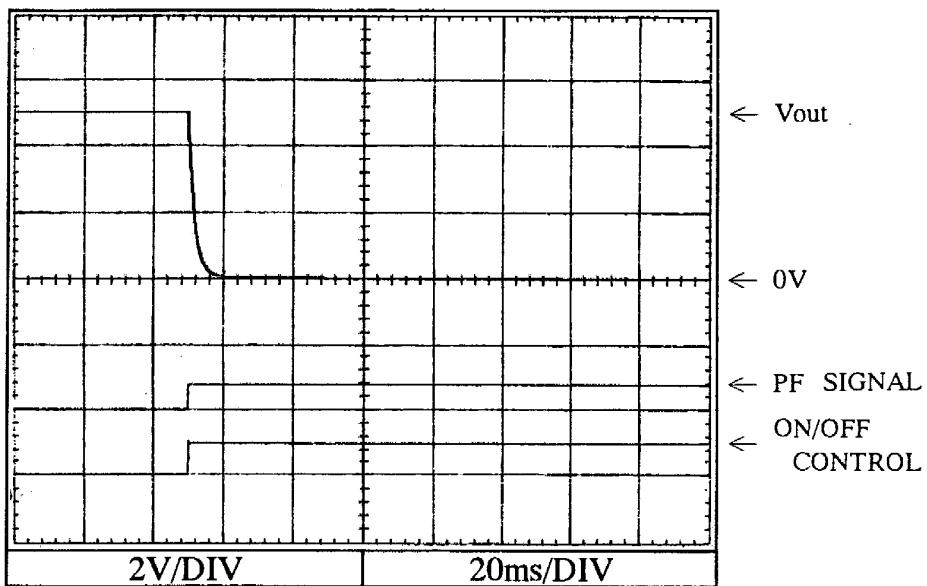
48V



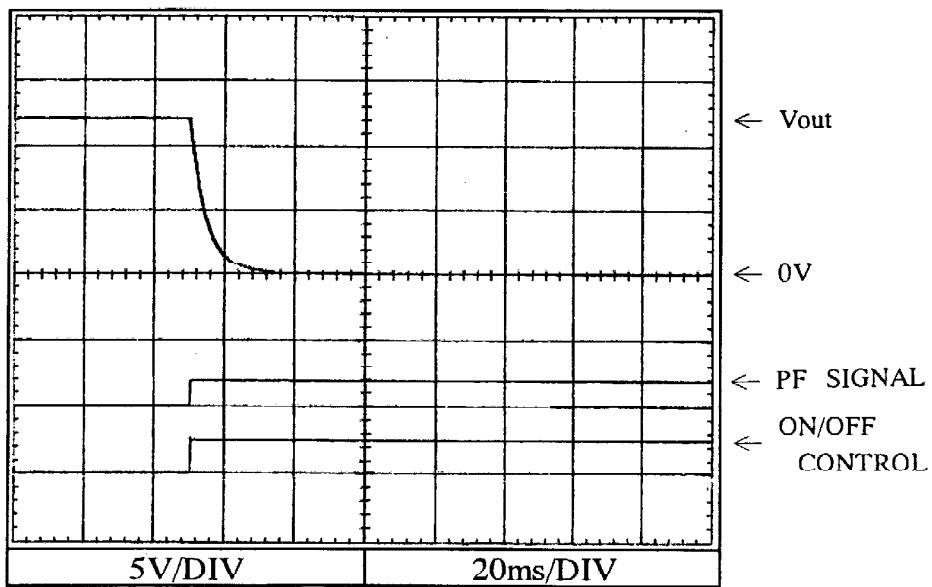
2.8 ON/OFFコントロール時出力立ち下がり特性
Output fall characteristics with ON/OFF CONTROL

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

5V



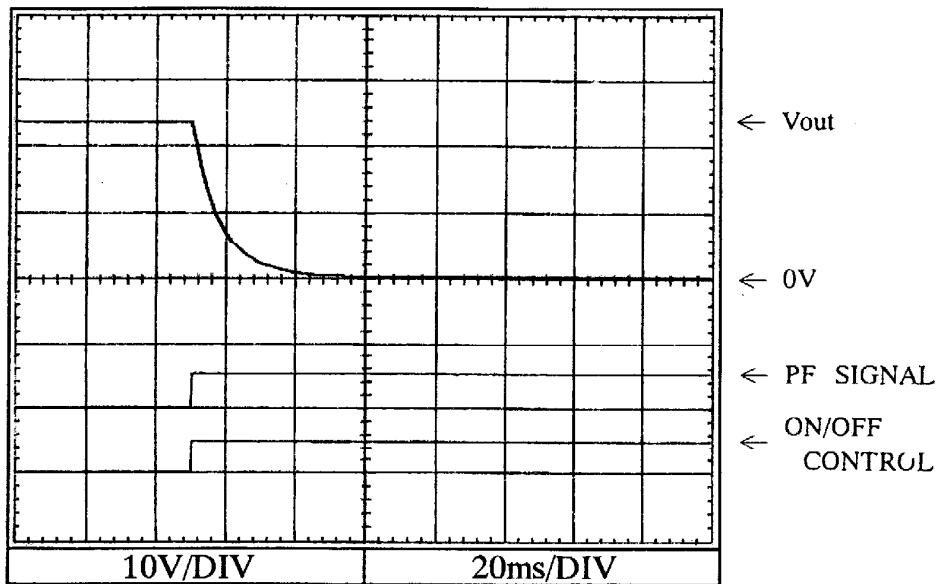
12V



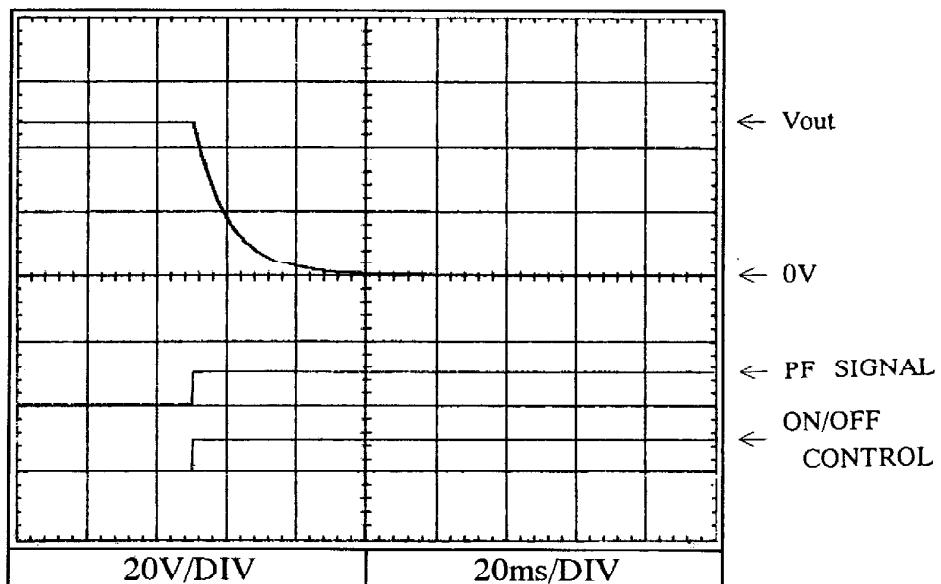
2.8 ON/OFFコントロール時出力立ち下がり特性
Output fall characteristics with ON/OFF CONTROL

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

24V



48V



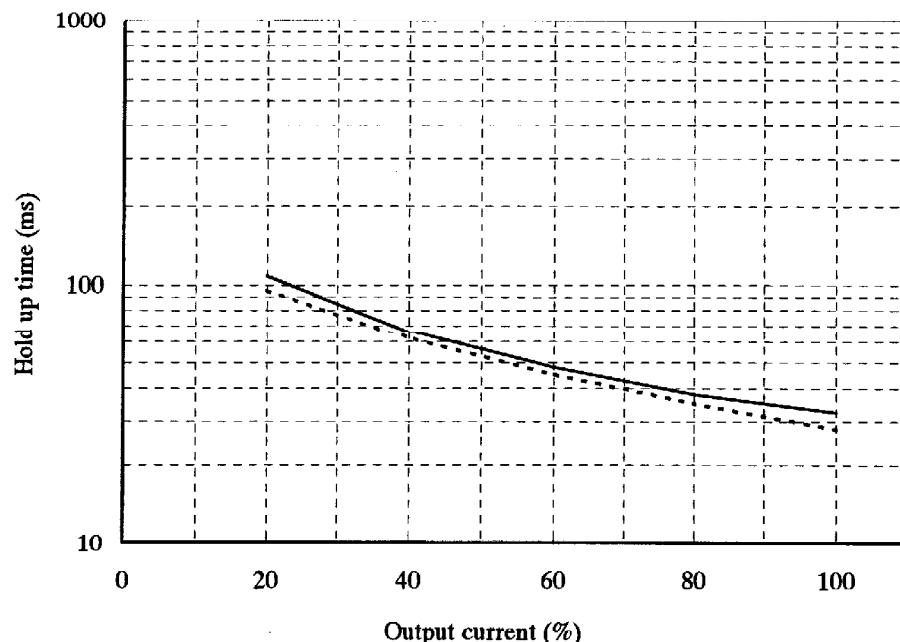
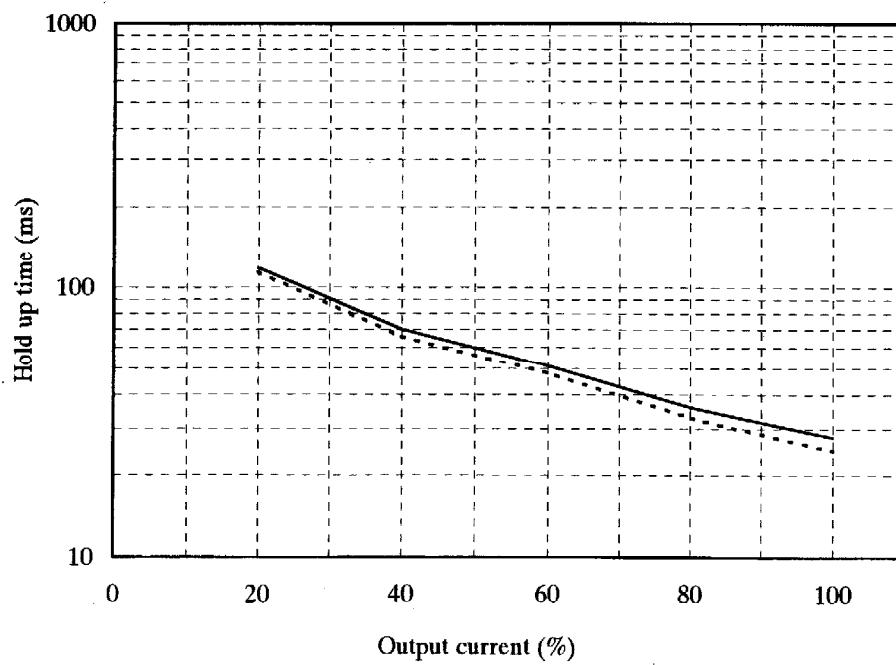
2.9 出力保持時間特性

Hold up time characteristics

Conditions Vin : 100VAC

: 200VAC

Ta : 25°C

5V**12V**

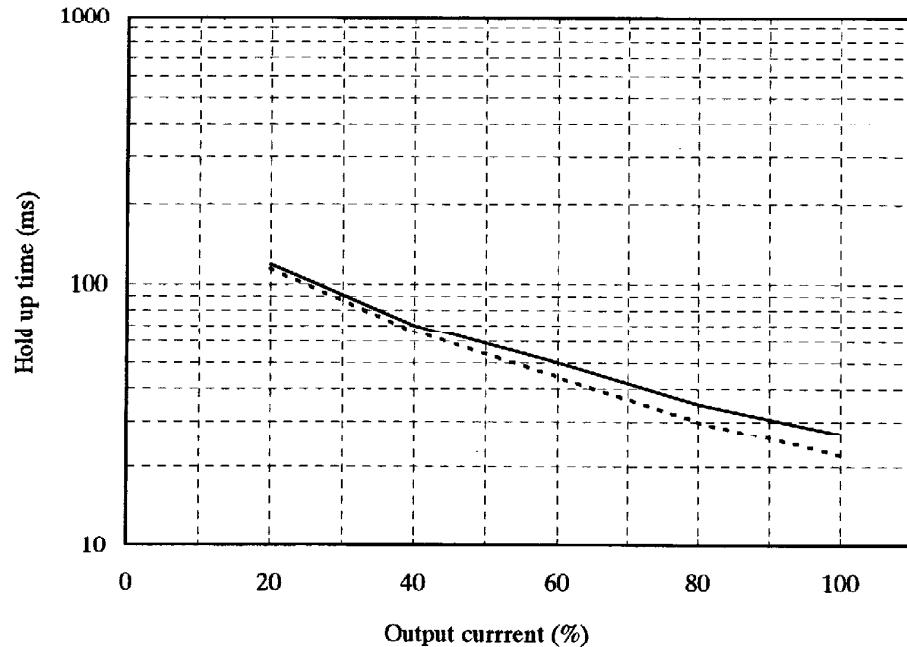
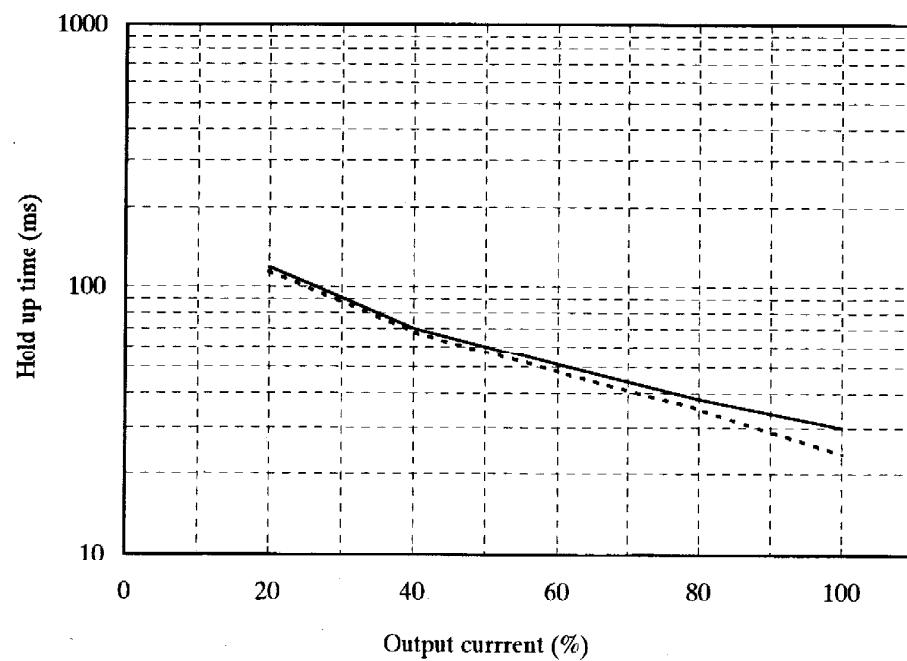
2.9 出力保持時間特性

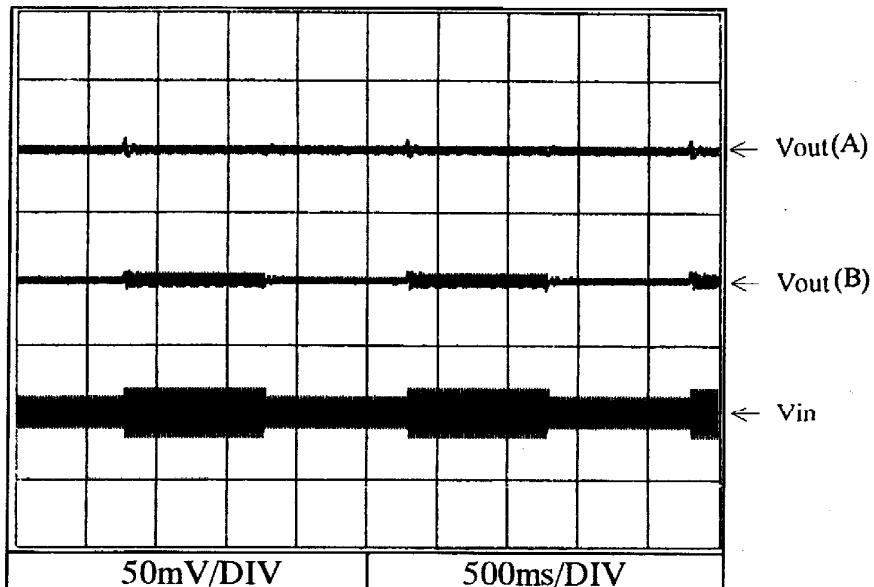
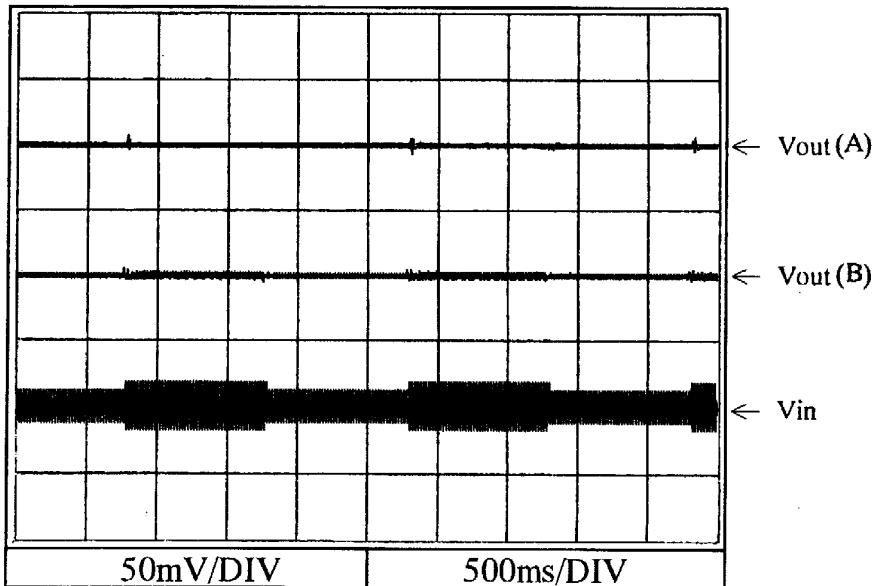
Hold up time characteristics

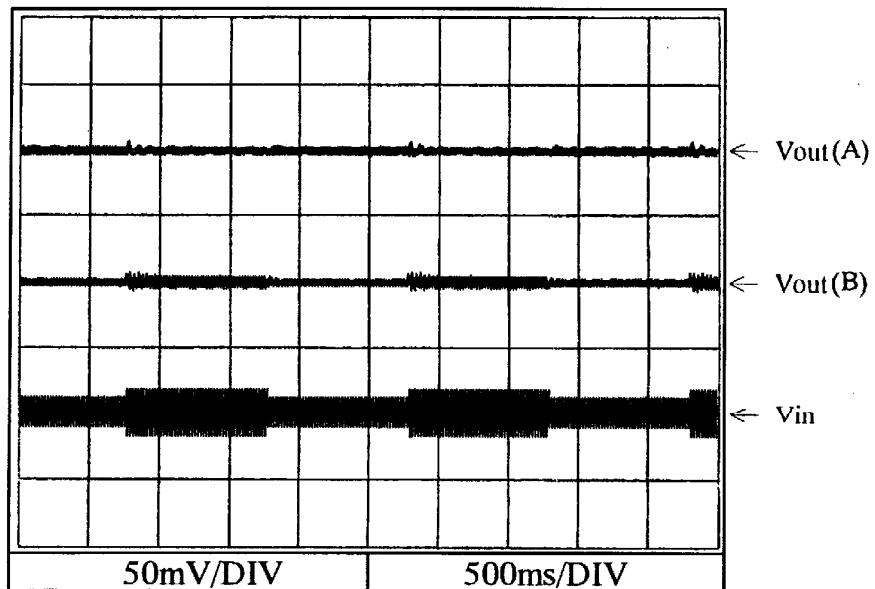
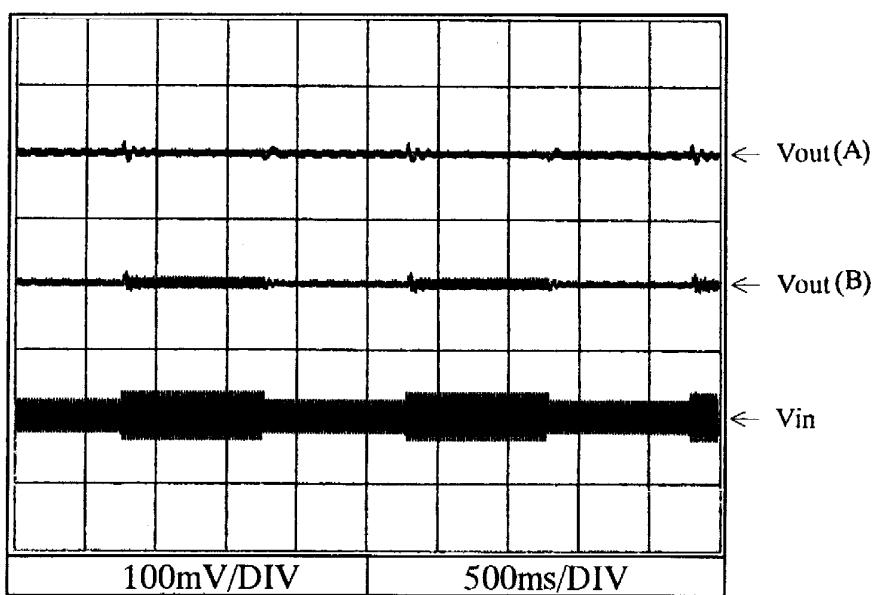
Conditions Vin : 100VAC

: 200VAC

Ta : 25°C

24V**48V**

2.10 過渡応答（入力急変）特性
Dynamic line response characteristicsConditions Vin : 85VAC \leftrightarrow 132VAC(A)
 170VAC \leftrightarrow 265VAC(B)
Iout : 100%
Ta : 25°C**5V****12V**

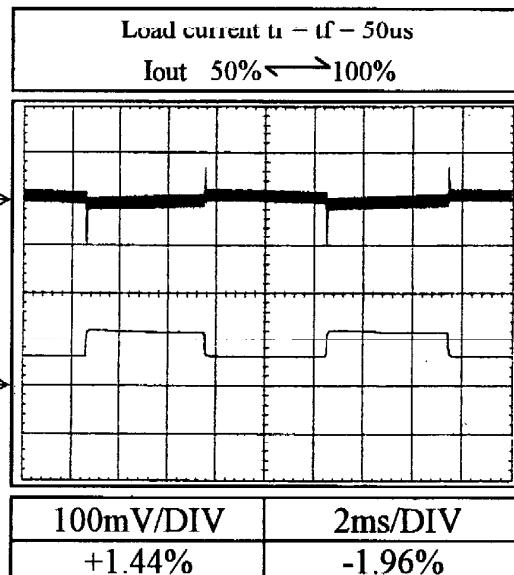
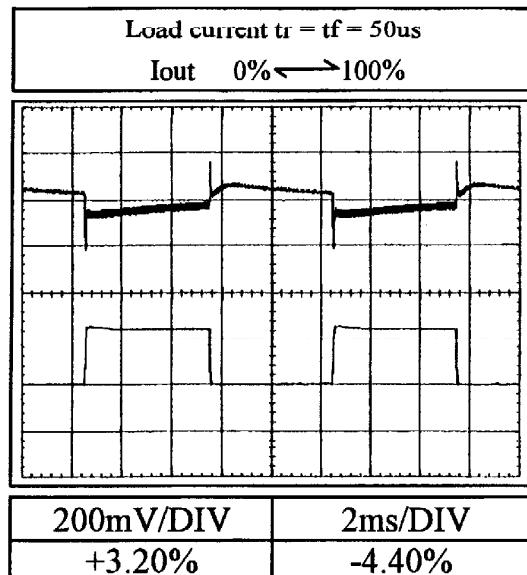
2.10 過渡応答（入力急変）特性
Dynamic line response characteristicsConditions Vin : 85VAC \leftrightarrow 132VAC(A)
 170VAC \leftrightarrow 265VAC(B)
Iout : 100%
Ta : 25°C**24V****48V**

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

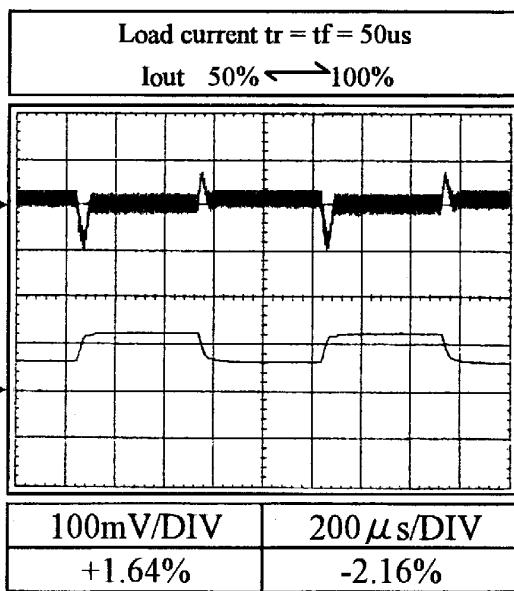
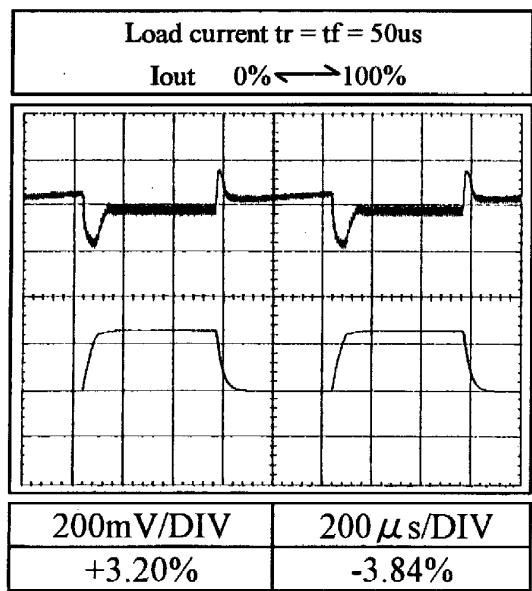
Conditions Vin : 100VAC
Ta : 25°C

5V

f=100Hz



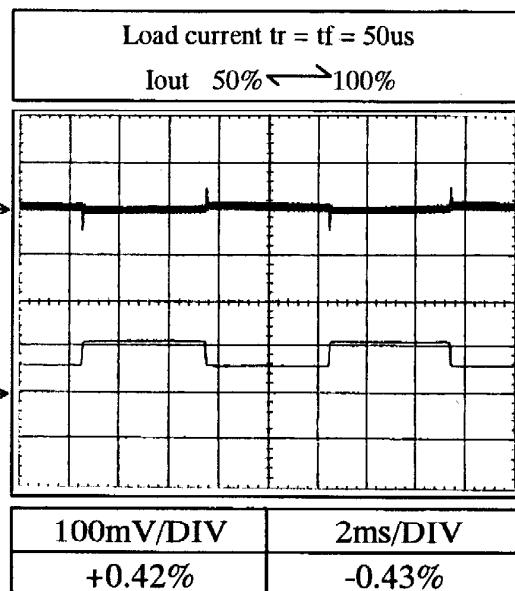
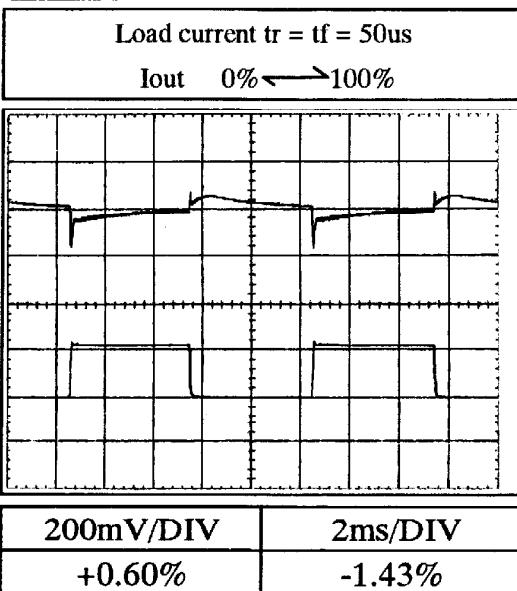
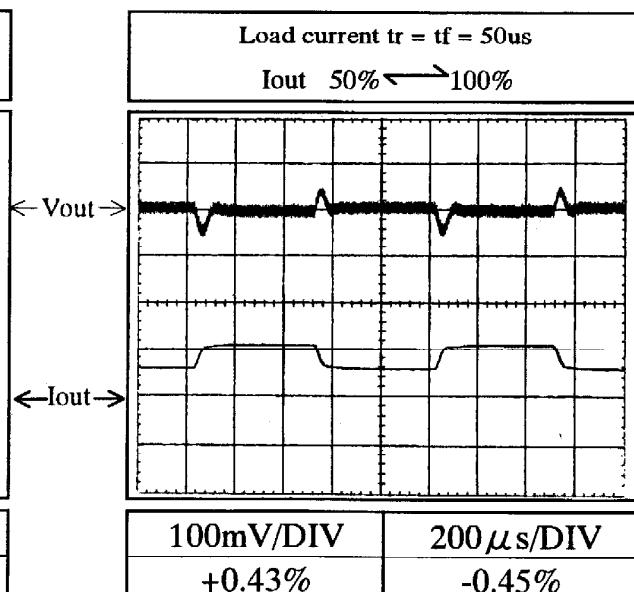
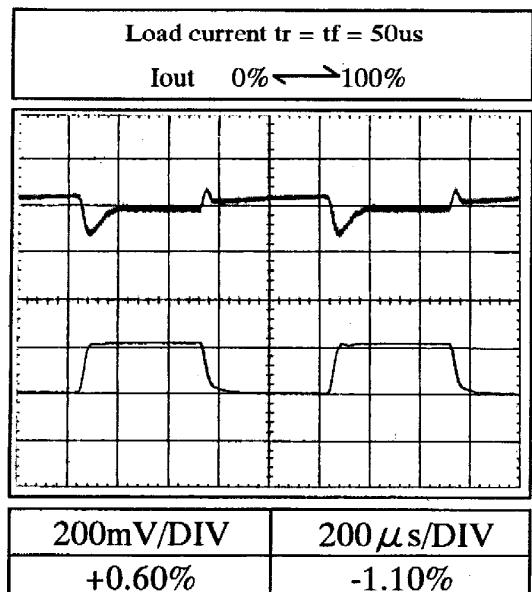
f=1kHz



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

Conditions Vin : 100VAC
Ta : 25°C

12V

f=100Hzf=1kHz

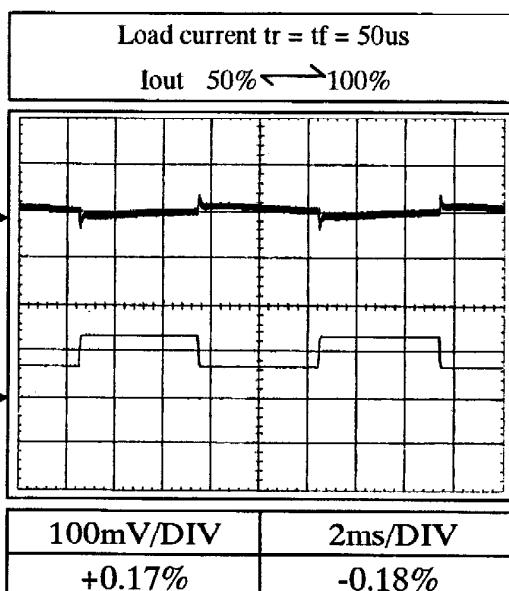
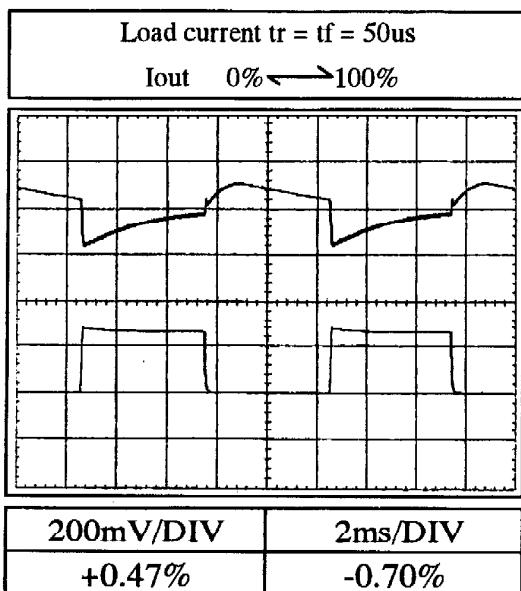
NEMIC-LAMBDA

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

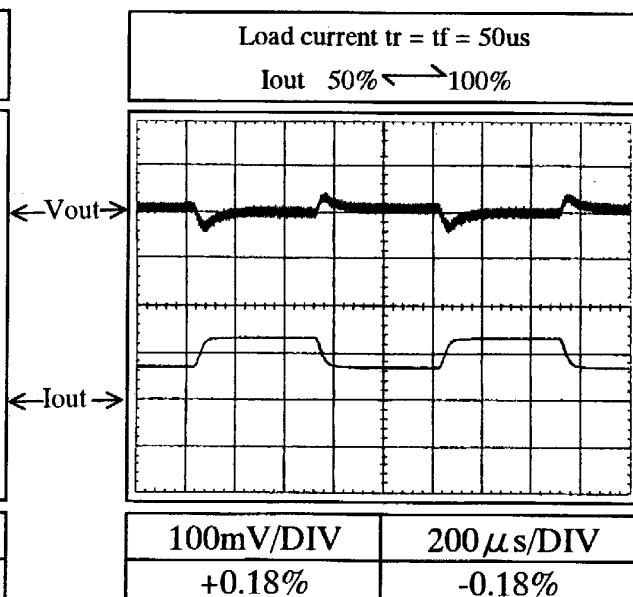
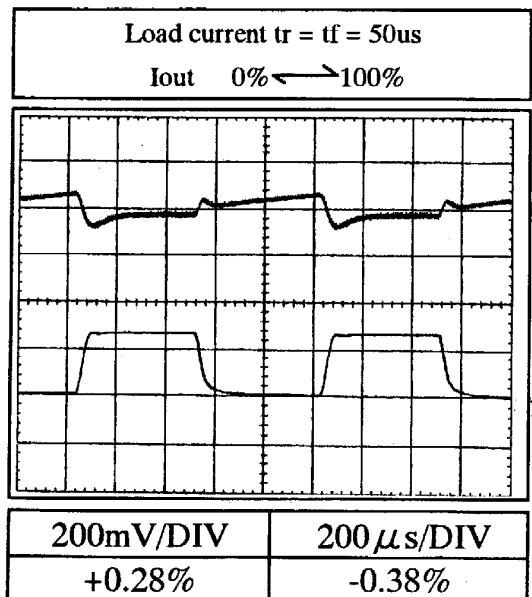
Conditions Vin : 100VAC
Ta : 25°C

24V

f=100Hz



f=1kHz

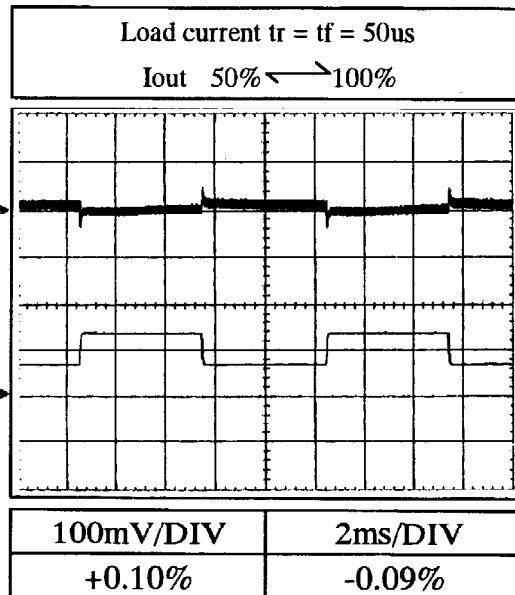
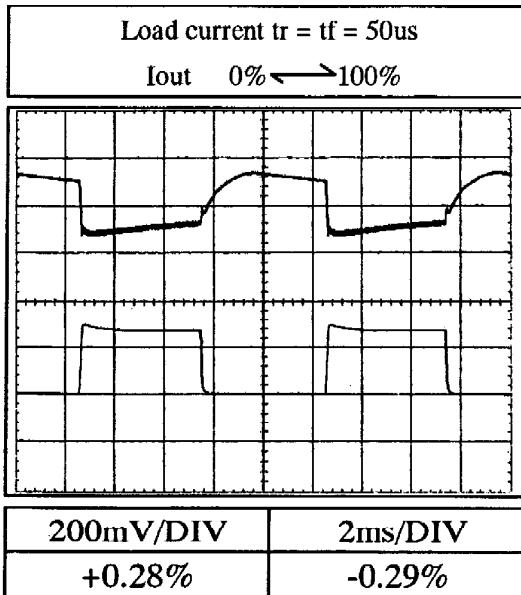
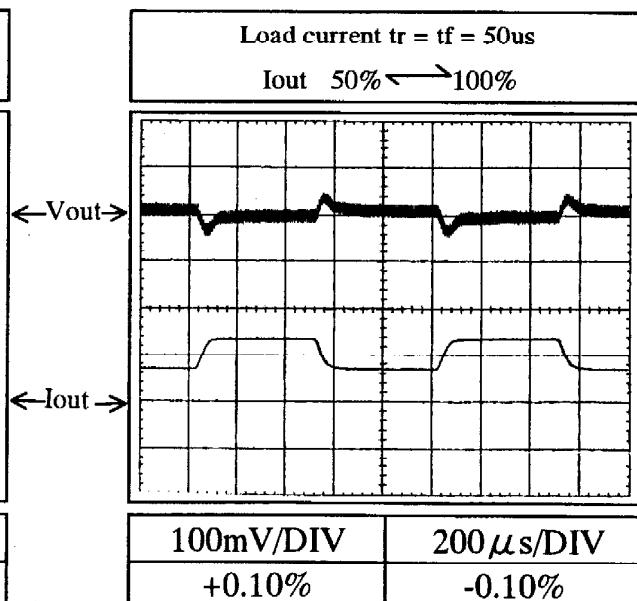
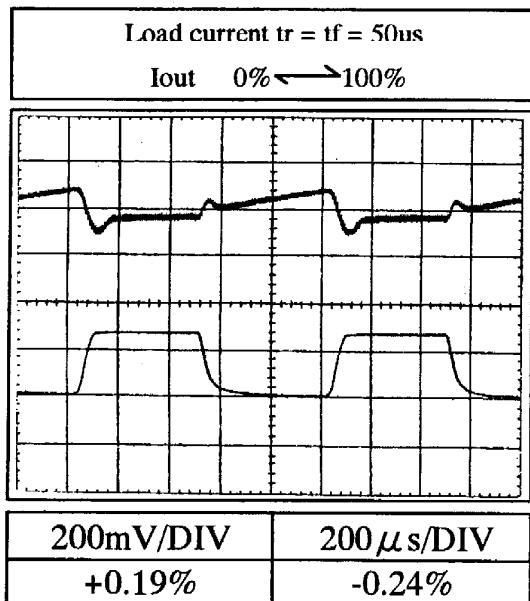


NEMIC-LAMBDA

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

Conditions Vin : 100VAC
Ta : 25°C

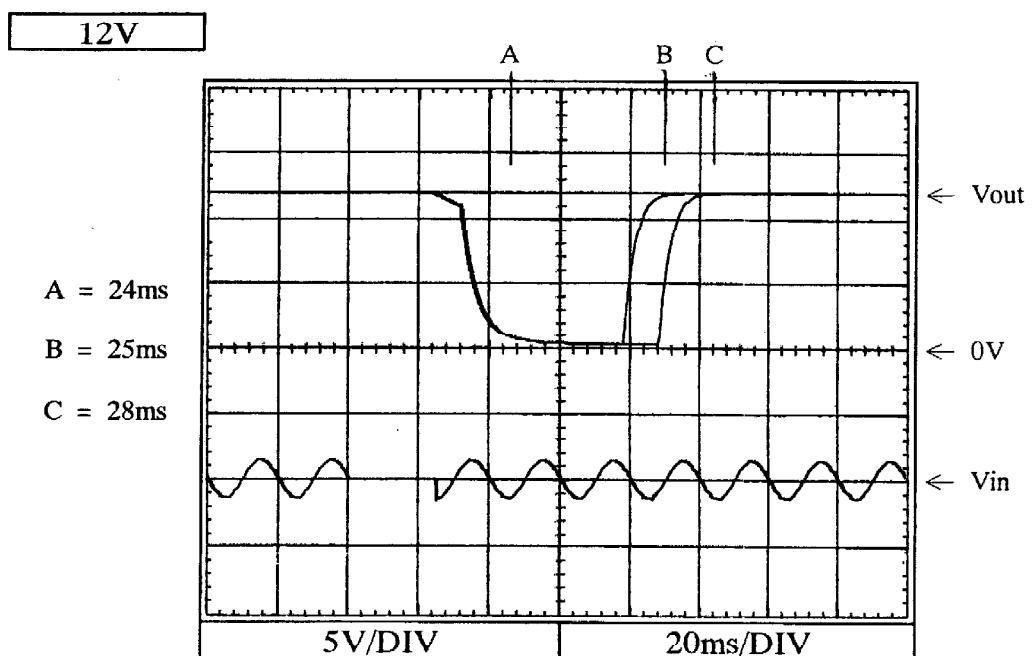
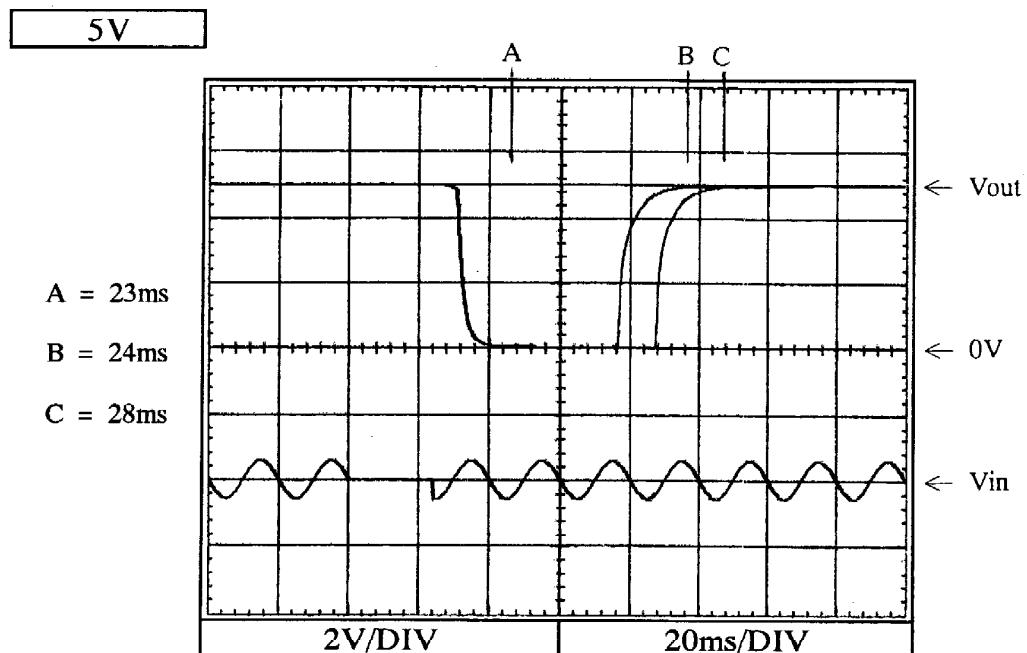
48V

f=100Hzf=1kHz

2.12 入力電圧瞬停特性

Response to brown out characteristics

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



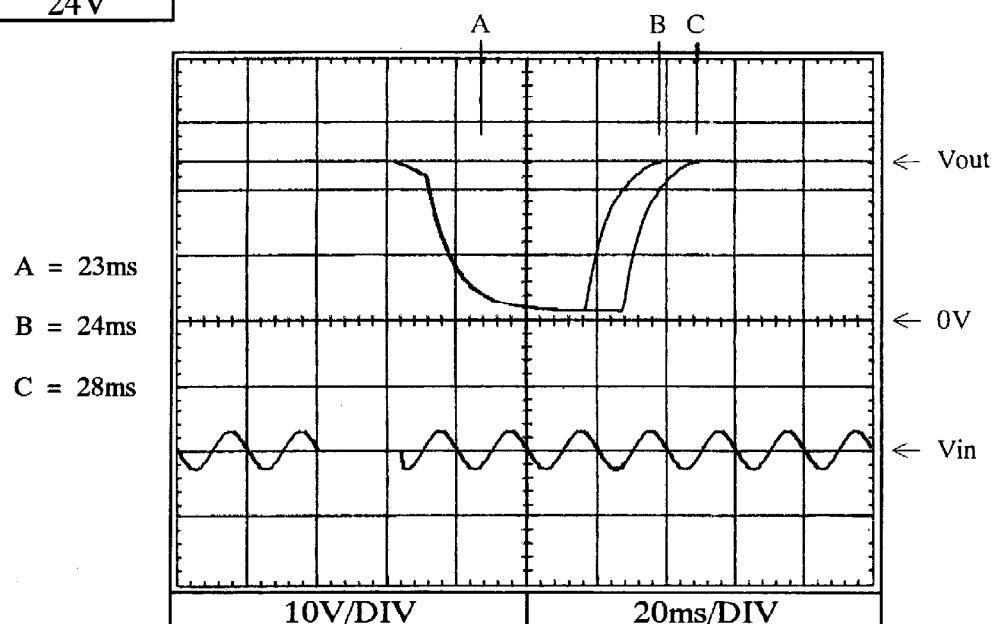
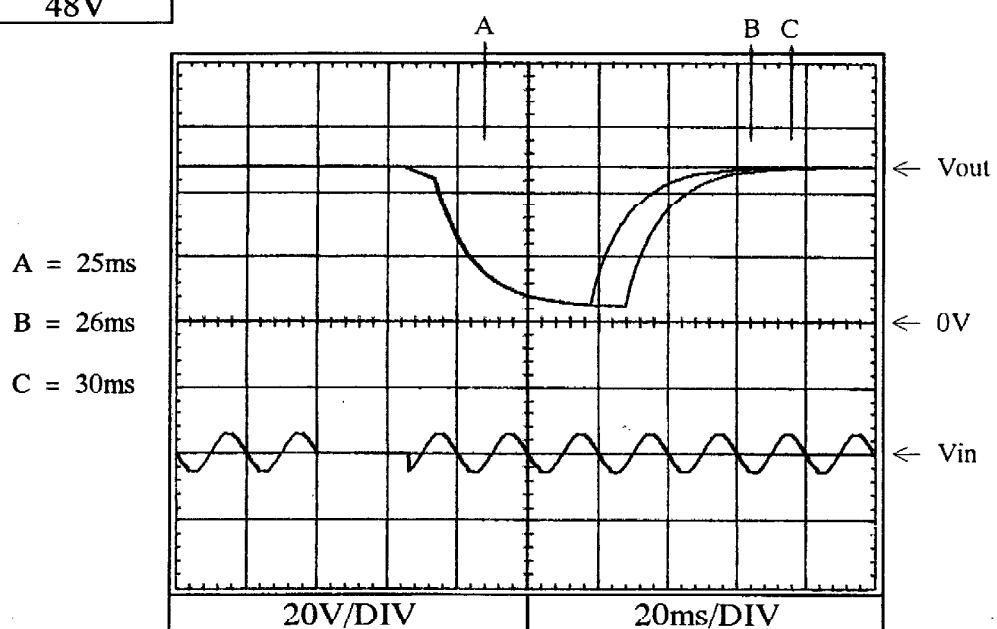
2.12 入力電圧瞬停特性

Response to brown out characteristics

Conditions Vin : 100VAC

Iout : 100%

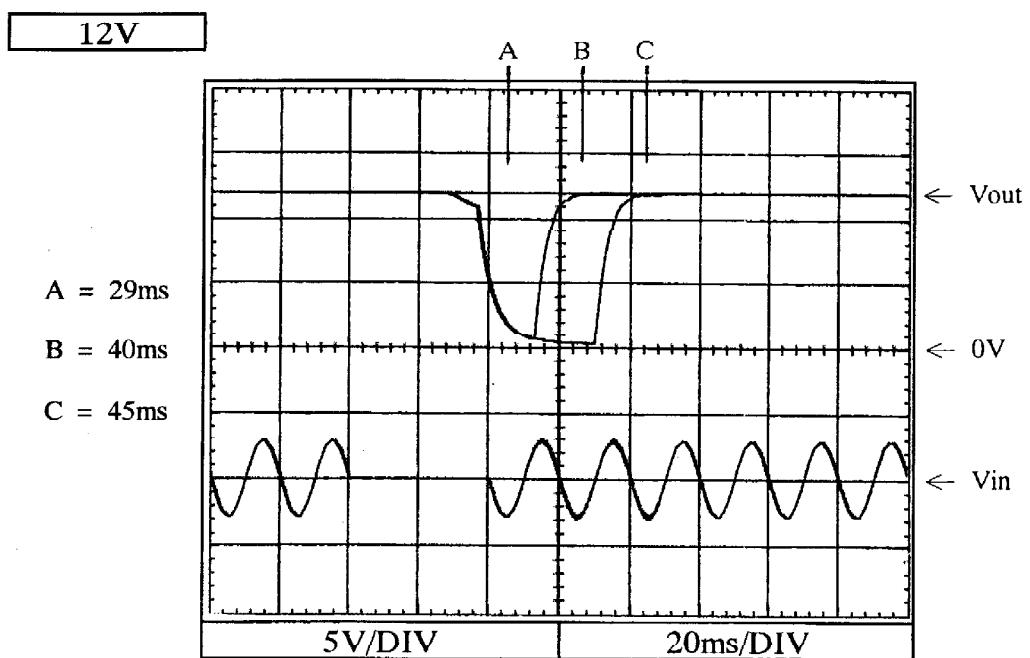
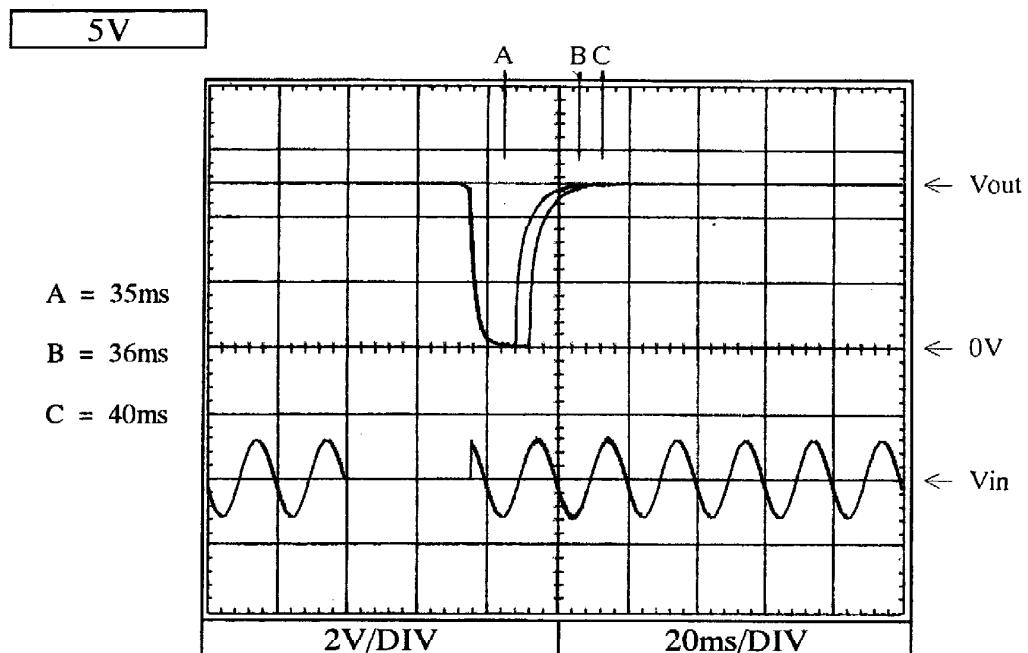
Ta : 25°C

24V**48V**

2.12 入力電圧瞬停特性

Response to brown out characteristics

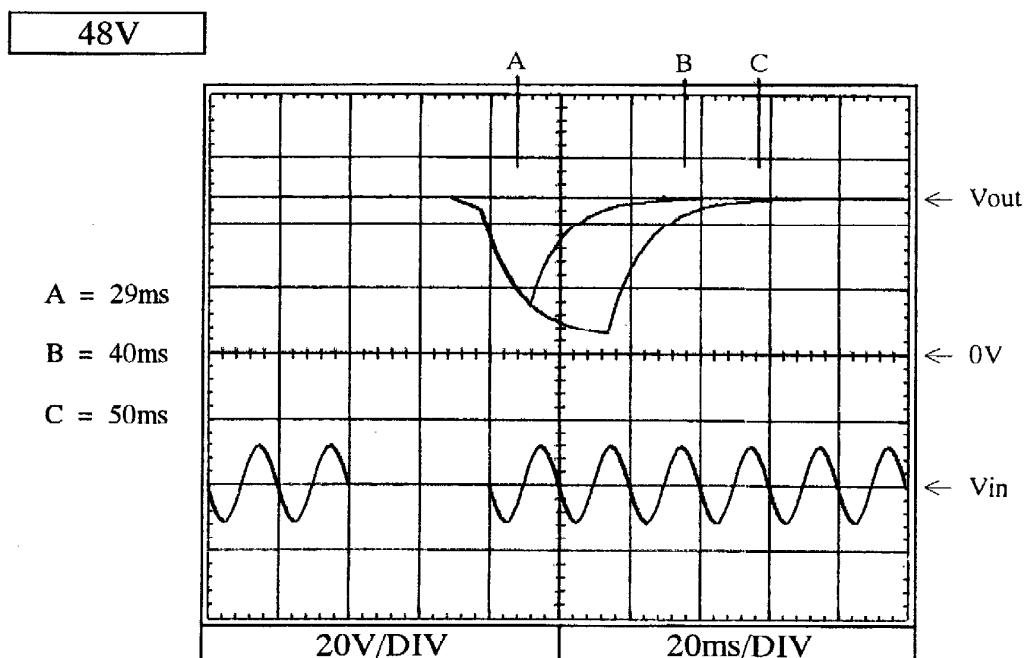
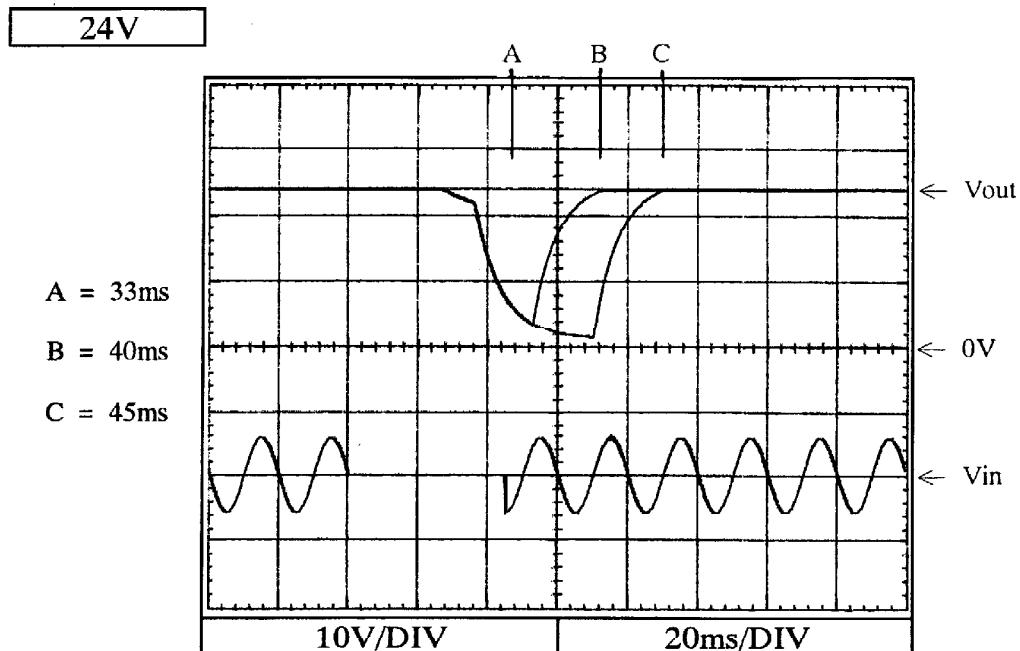
Conditions Vin : 200VAC
 Iout : 100%
 Ta : 25°C



2.12 入力電圧瞬停特性

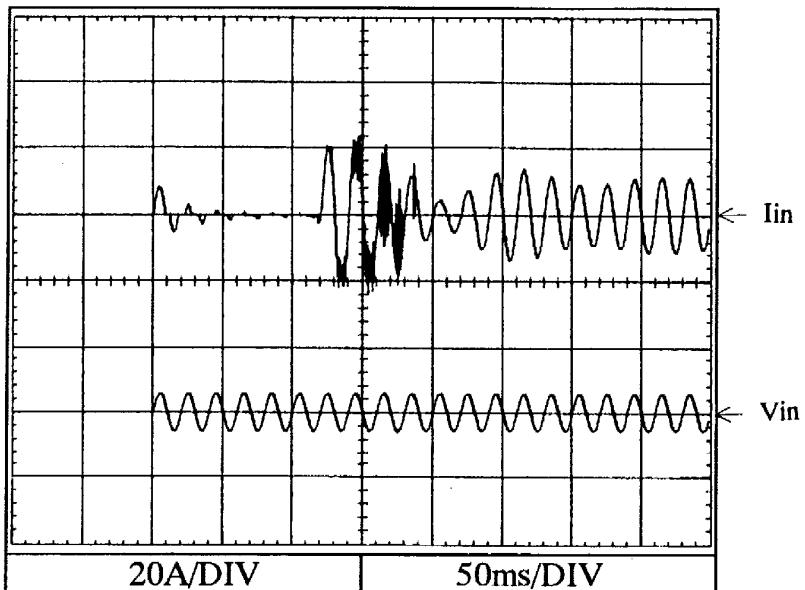
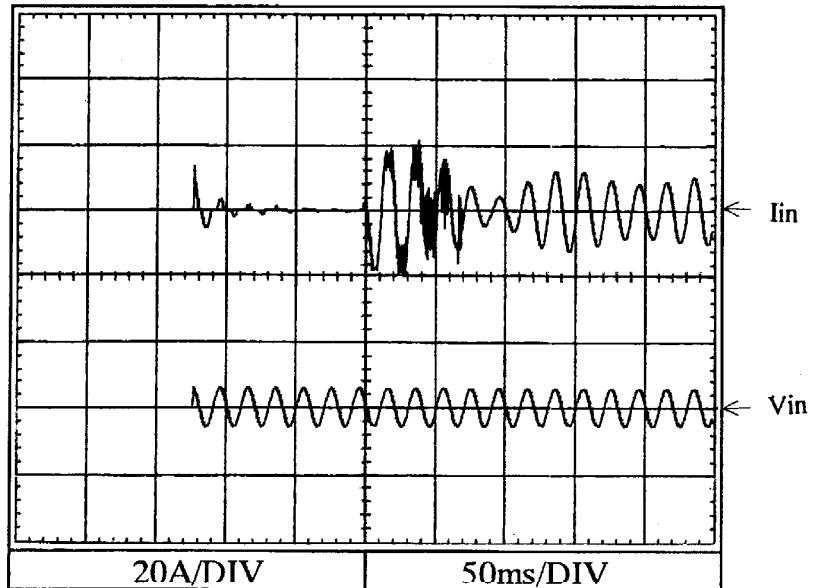
Response to brown out characteristics

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



2.13 入力サージ電流（突入電流）特性
Inrush current waveformConditions
Vin : 100VAC
Iout : 100%
Ta : 25°C

5V

Switch on phase angle
of input AC voltage
 $\phi = 0^\circ$ Switch on phase angle
of input AC voltage
 $\phi = 90^\circ$ 

2.13 入力サージ電流（突入電流）特性

Inrush current waveform

Conditions

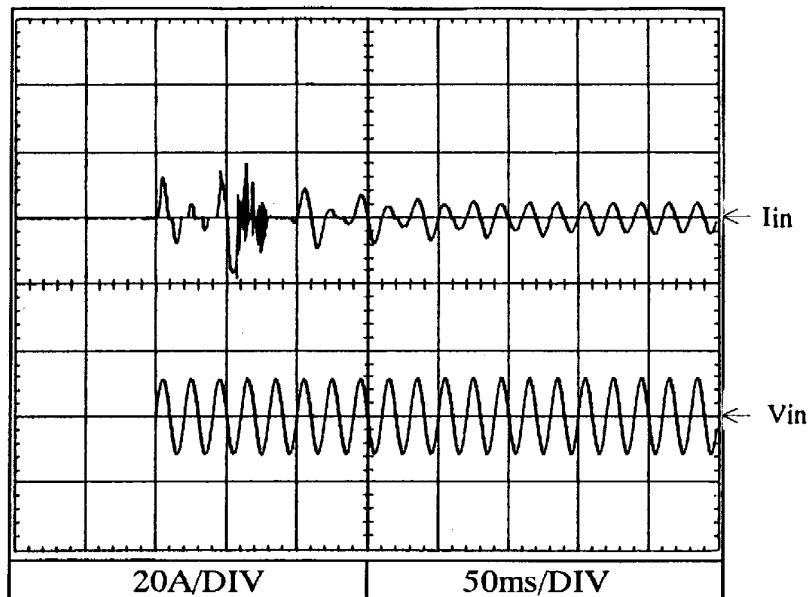
Vin : 200VAC

Iout : 100%

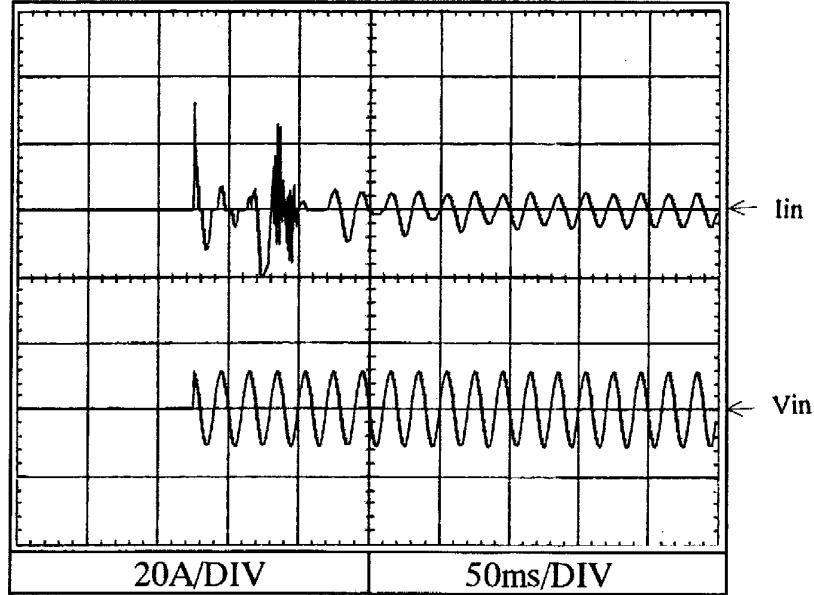
Ta : 25°C

5V

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



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



2.14 瞬停時突入電流特性

Inrush current characteristics

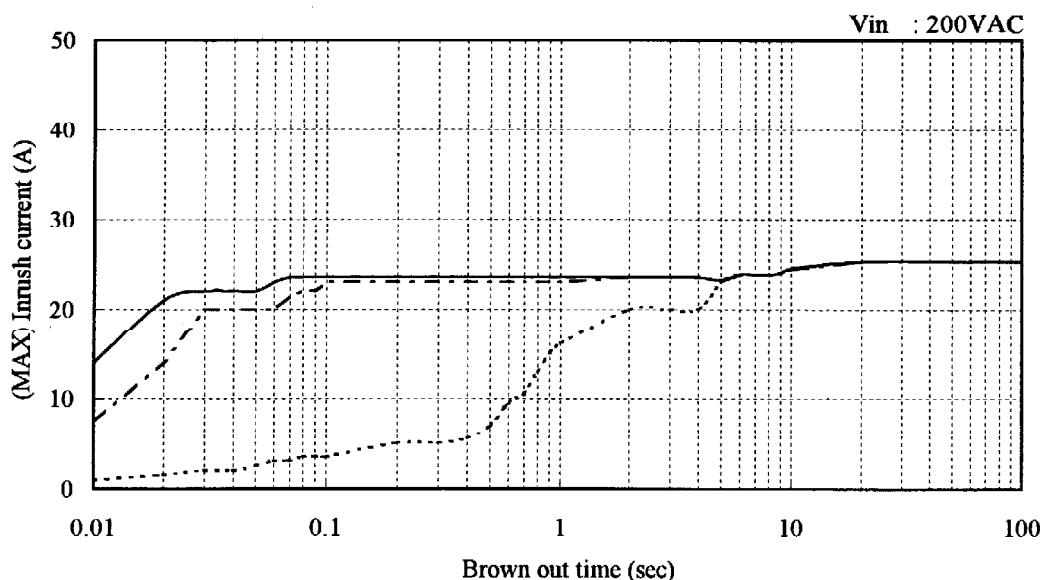
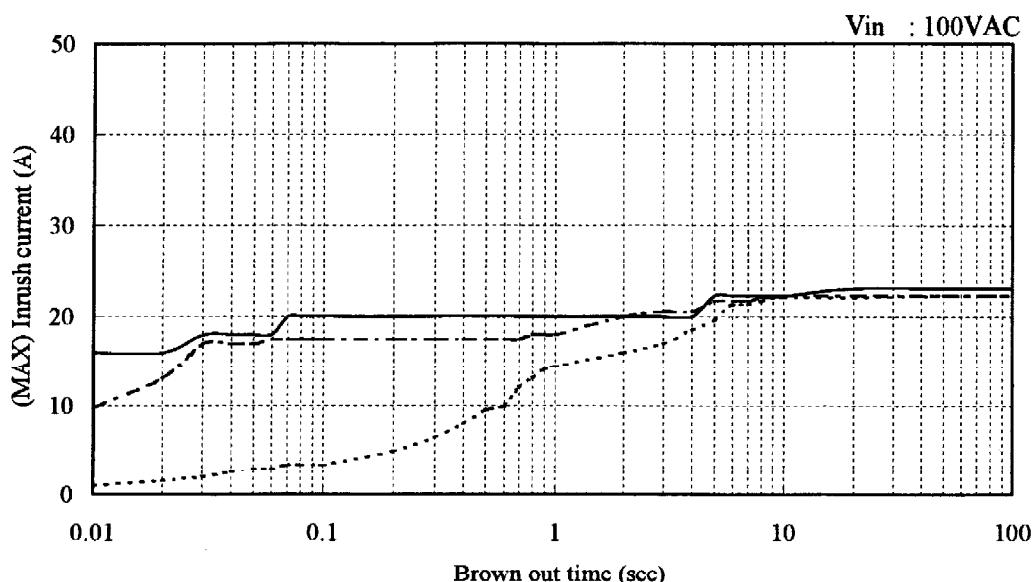
Conditions Iout : 0%

: 50% - - -

: 100% —————

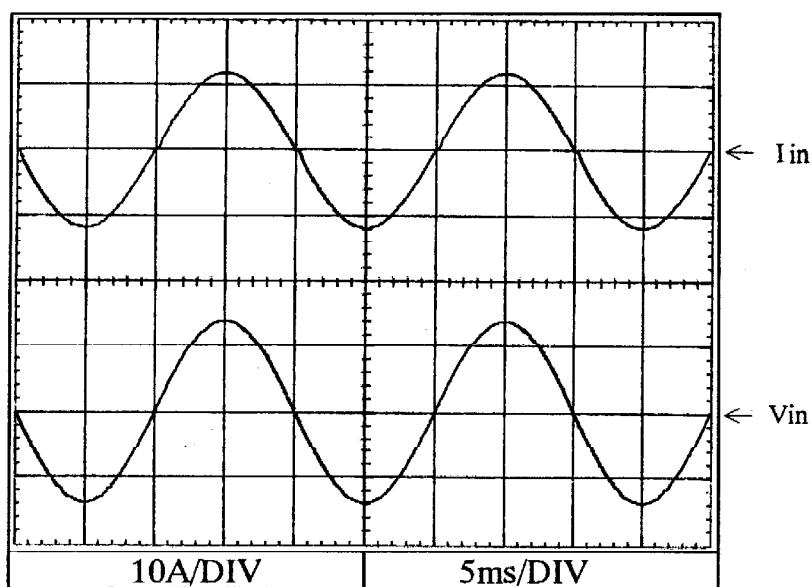
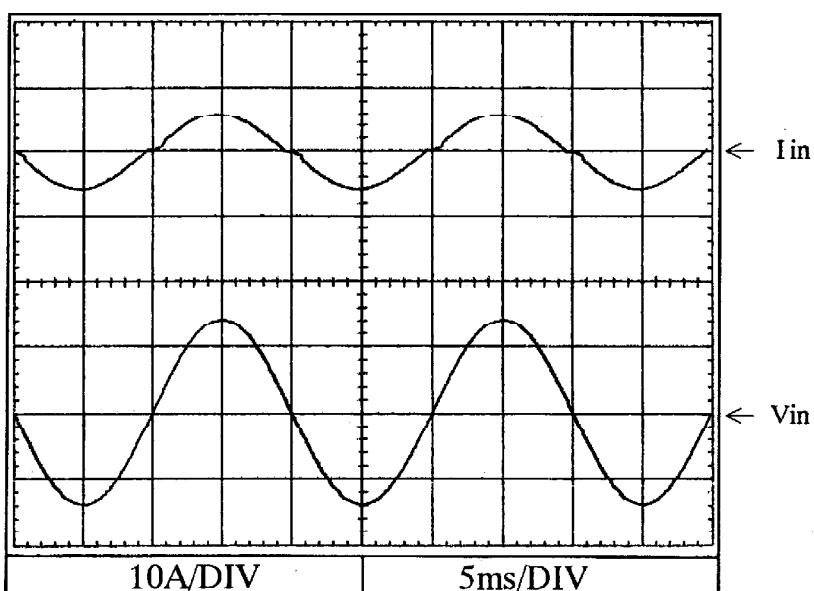
Ta : 25°C

5V

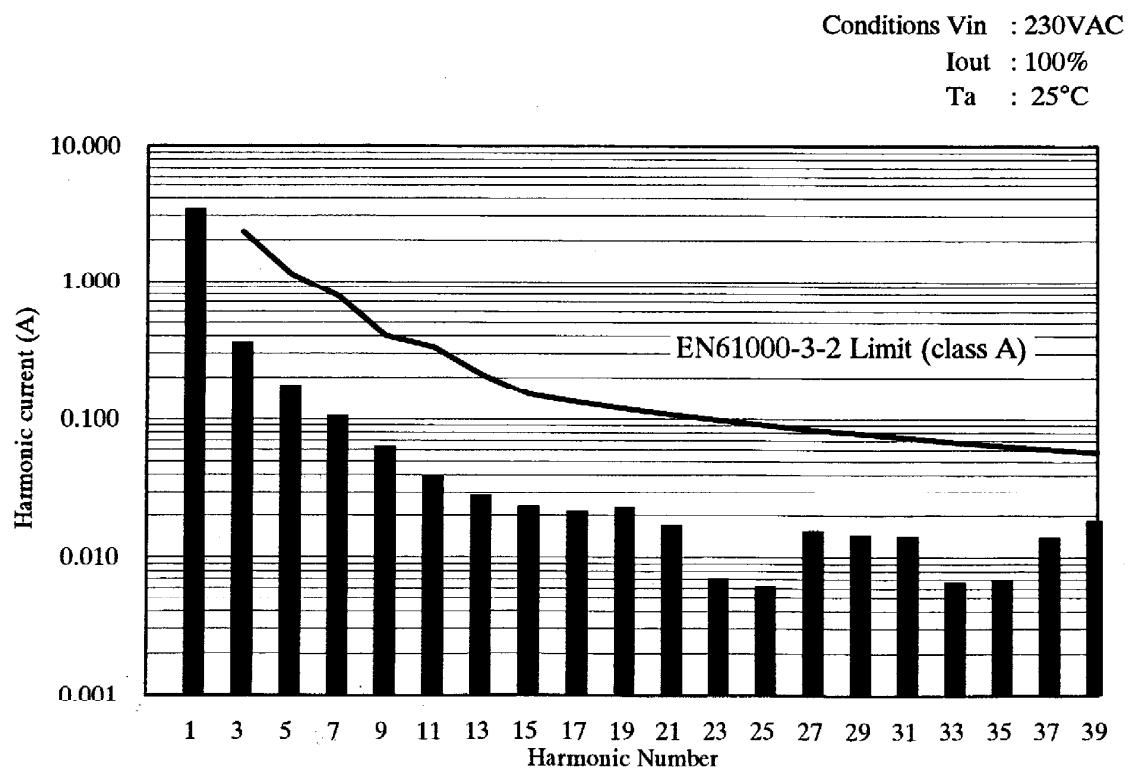
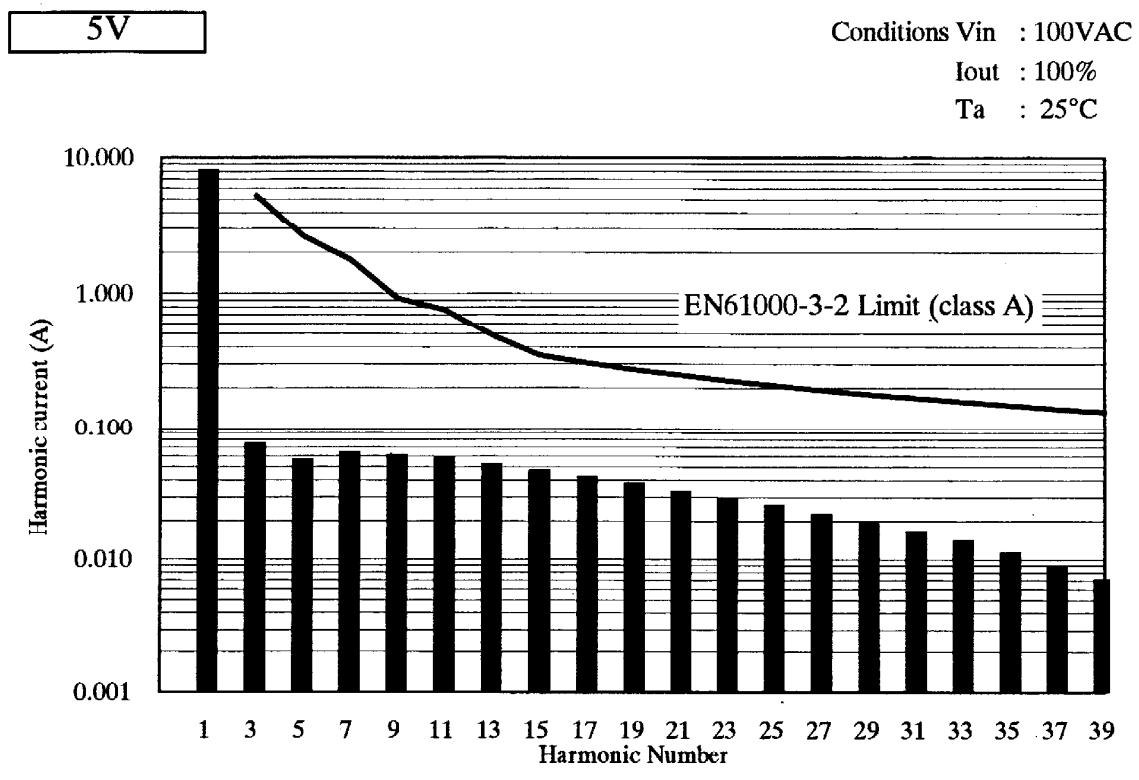


※ 上記値は、2次突入電流を含んだ値である。

Above data includes secondary inrush current.

2.15 入力電流波形
Input current waveform**5V**Conditions
Vin : 100VAC
Iout : 100%
Ta : 25°CConditions
Vin : 200VAC
Iout : 100%
Ta : 25°C

2.16 高調波成分
Input current harmonics



2.17 リーク電流特性

Leakage current characteristics

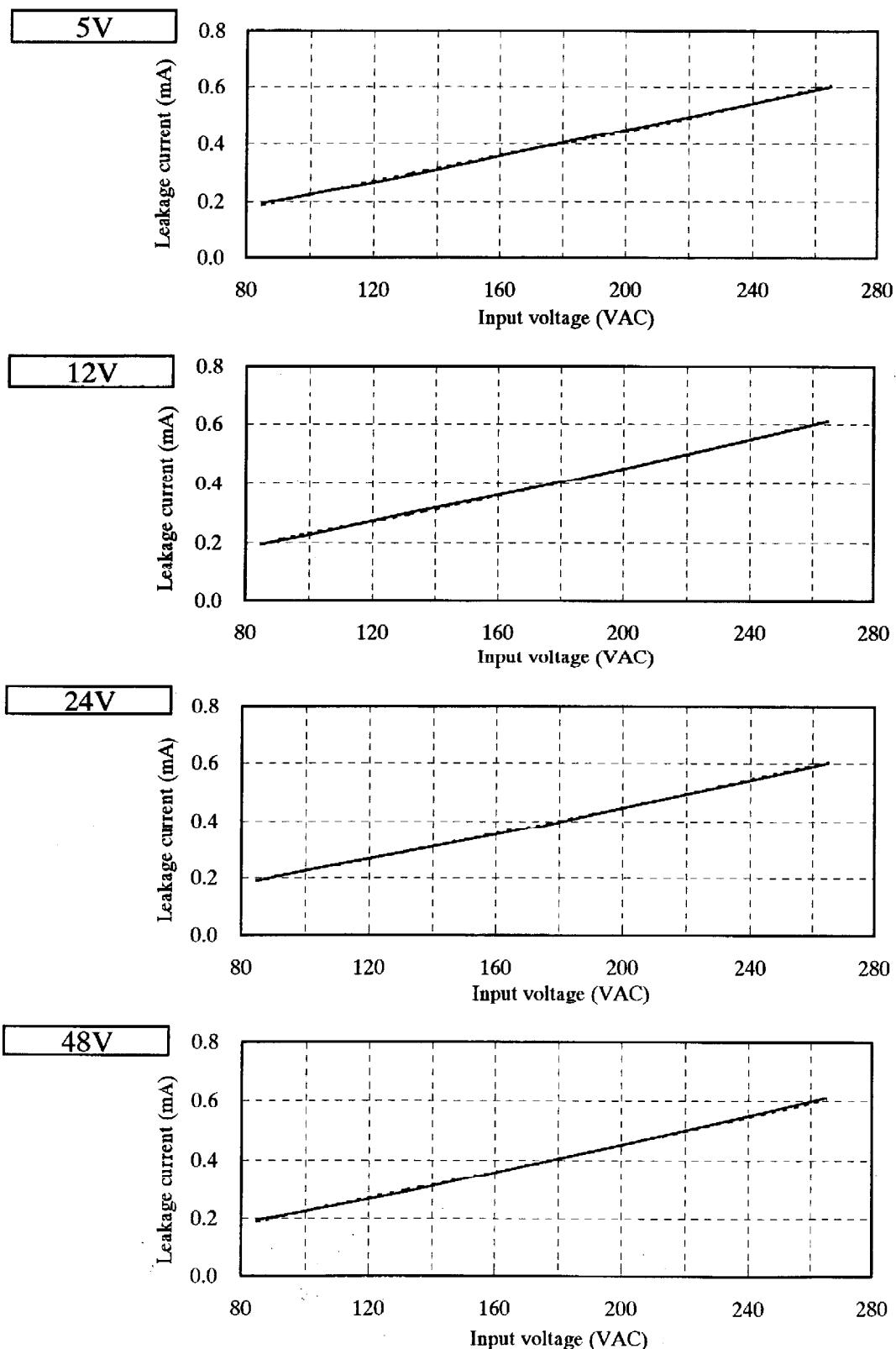
Conditions Iout : 0% -----

: 100% —————

Ta : 25°C

f : 50Hz

Equipment used : MODEL 229-2 (Simpson)

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2.17 リーク電流特性

Leakage current characteristics

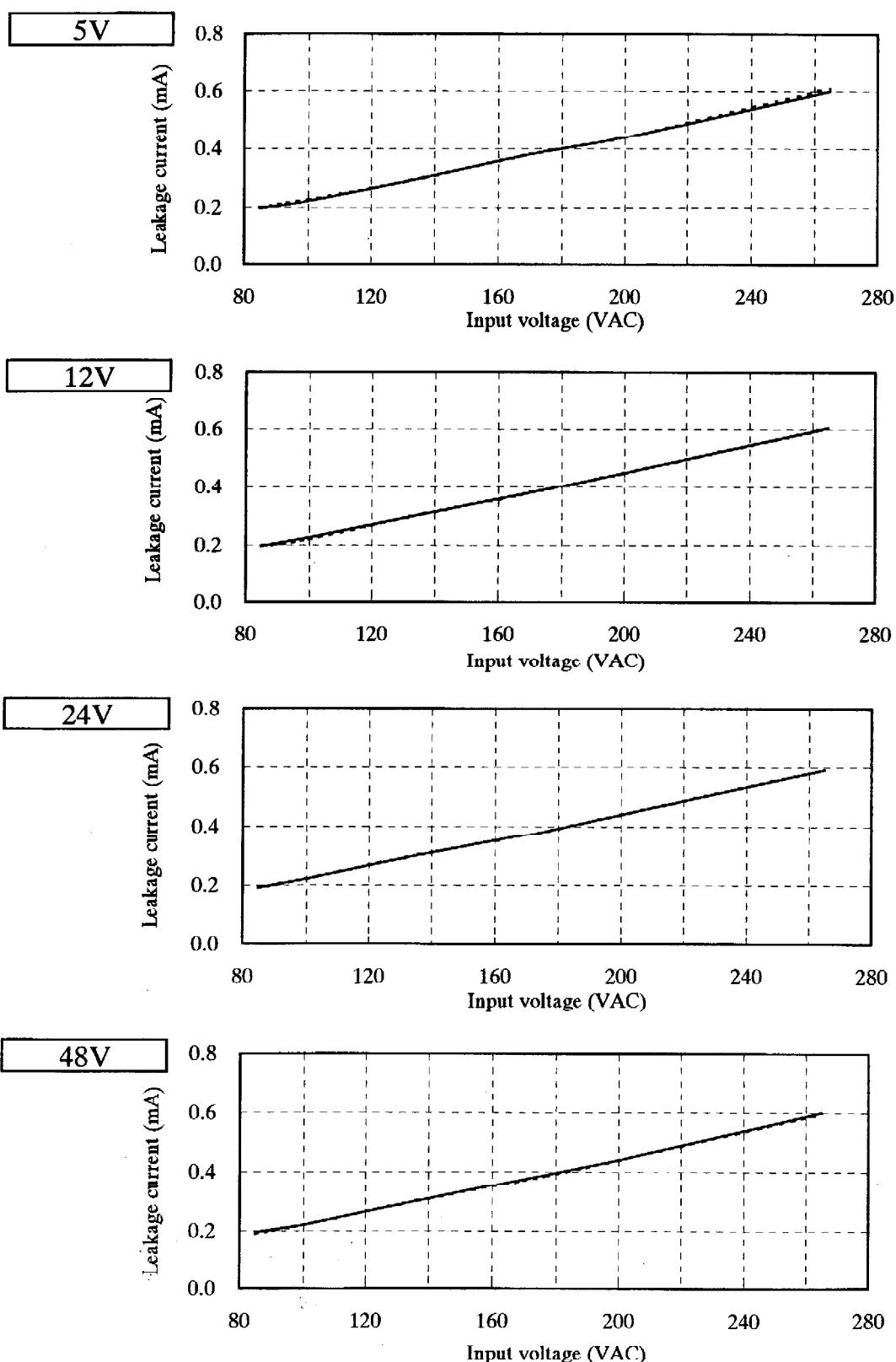
Conditions Iout : 0%

: 100% ———

Ta : 25°C

f : 50Hz

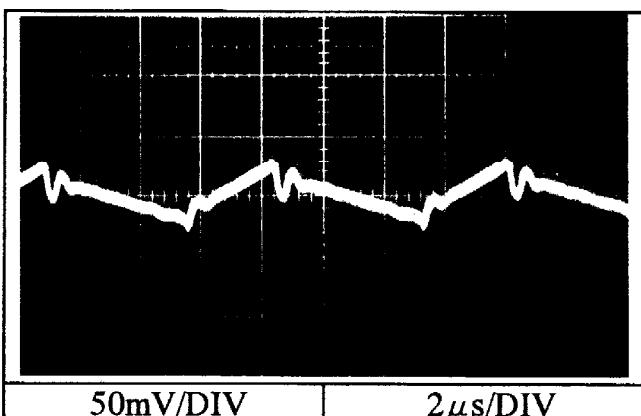
Equipment used : TYPE3226 (YOKOGAWA)



2.18 出力リップル、ノイズ波形
Output ripple and noise waveform
NORMAL MODE

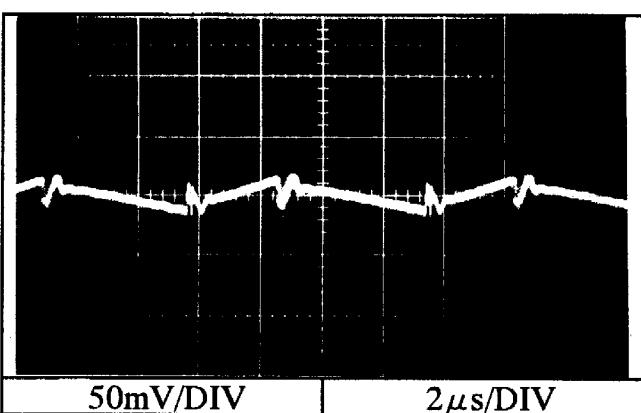
Conditions Vin : 100VAC
Iout : 100%
Ta : 25°C

5V



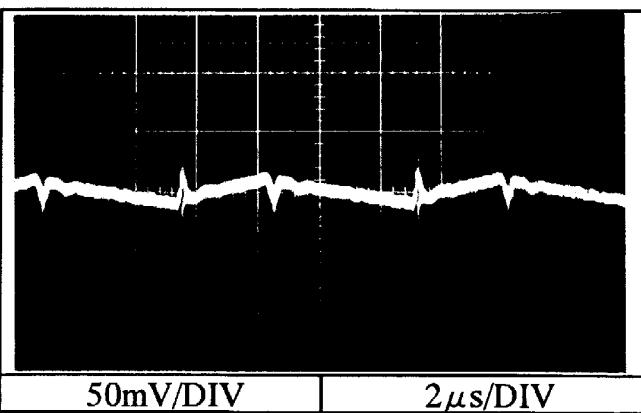
← Vout

12V



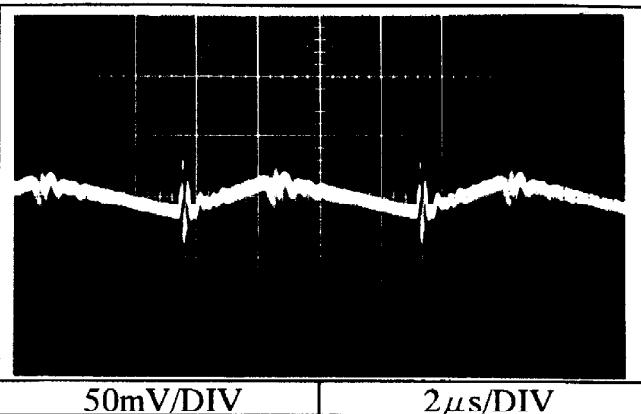
← Vout

24V

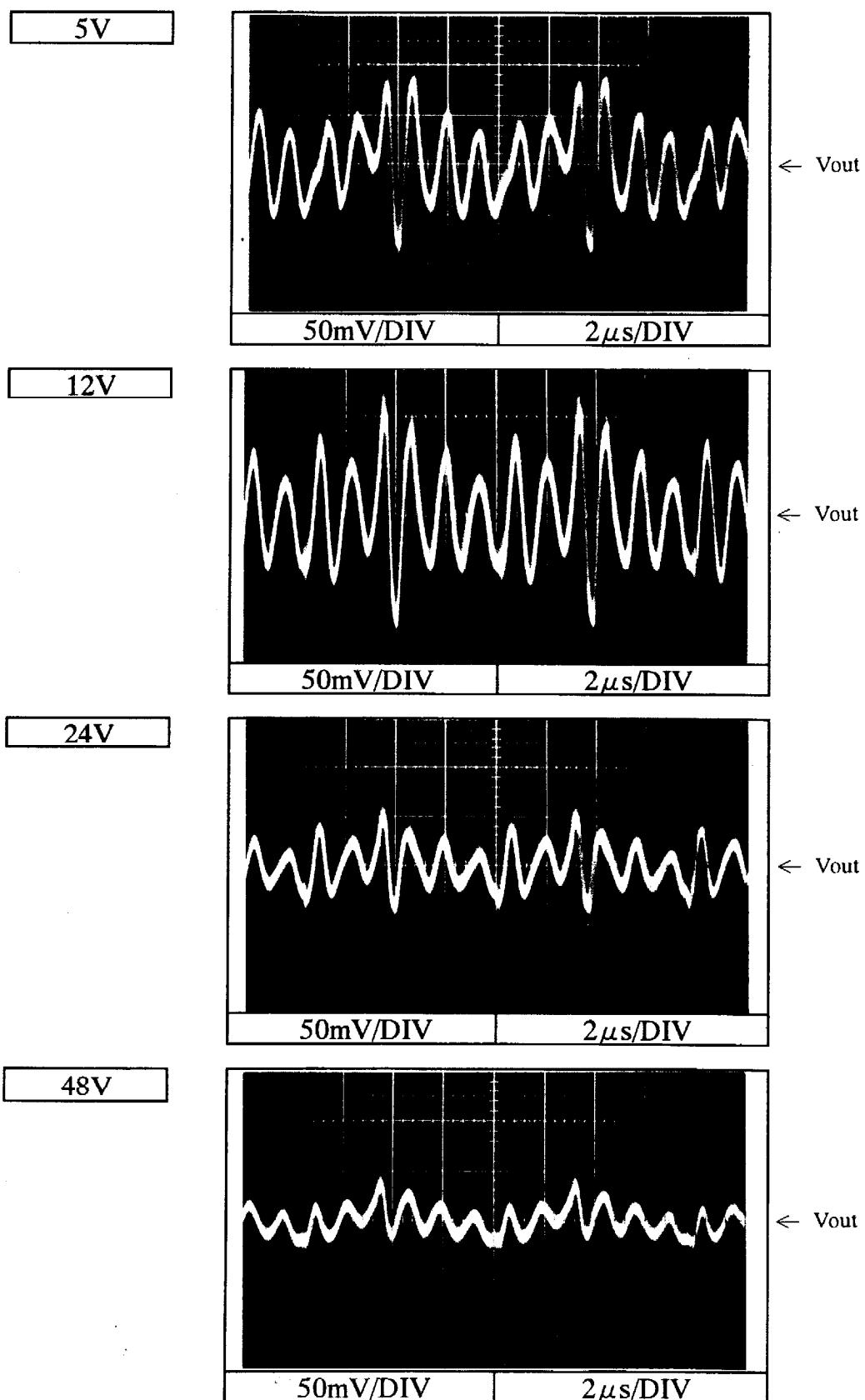


← Vout

48V



← Vout

2.18 出力リップル、ノイズ波形
Output ripple and noise waveform
NORMAL + COMMON MODEConditions Vin : 100VAC
Iout : 100%
Ta : 25°C

2.19 EMI特性

Electro-Magnetic Interference characteristics

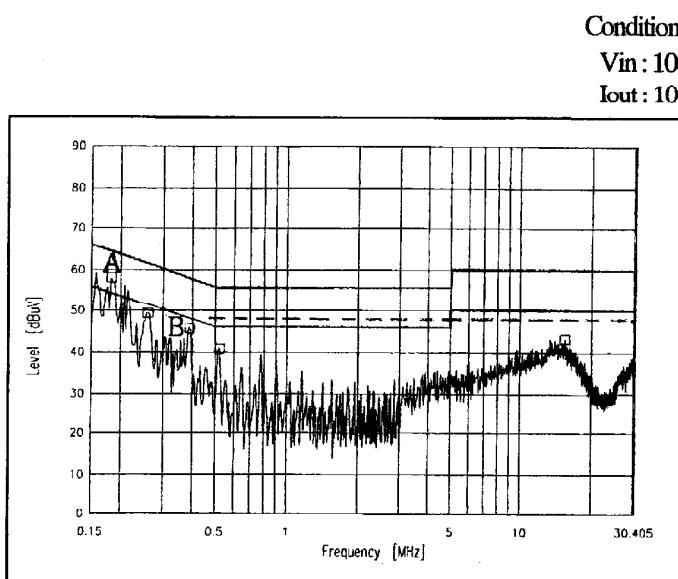
雜音端子電圧

Conducted Emission

5V

Point A (182kHz)		
Ref.	VCCI-Limit (dBuV)	Measure (dBuV)
QP	64.4	49.3
AV	54.4	40.3

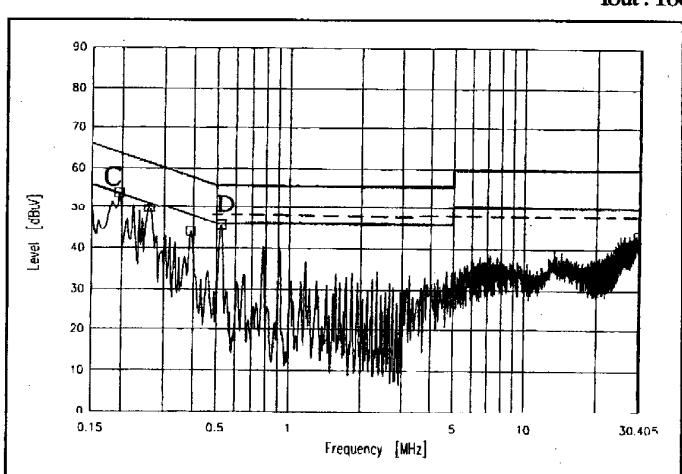
Point B (38kHz)		
Ref.	VCCI-Limit (dBuV)	Measure (dBuV)
QP	58.1	45.2
AV	48.1	42.0



12V

Point C (182kHz)		
Ref.	VCCI-Limit (dBuV)	Measure (dBuV)
QP	64.4	50.1
AV	54.4	41.0

Point D (51kHz)		
Ref.	FCC-Limit (dBuV)	Measure (dBuV)
QP	48.0	45.7
AV	NO SPEC.	43.6



2.19 EMI特性

Electro-Magnetic Interference characteristics

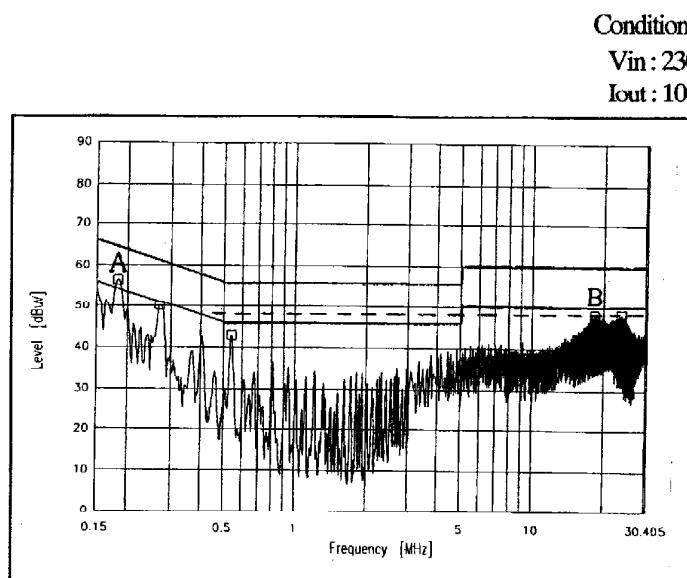
雜音端子電壓

Conducted Emission

24V

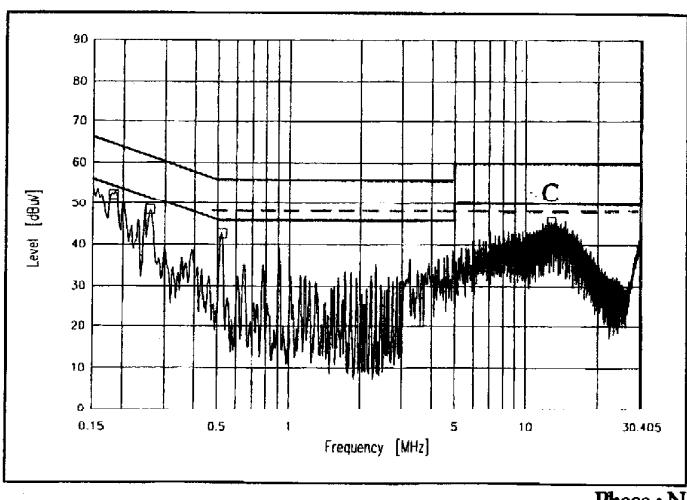
Point A (182kHz)		
Ref.	VCCI-Limit (dBuV)	Measure (dBuV)
QP	64.4	54.7
AV	54.4	47.1

Point B (18.4MHz)		
Ref.	FCC-Limit (dBuV)	Measure (dBuV)
QP	48.0	47.3
AV	NO SPEC.	46.8



48V

Point C (13.4MHz)		
Ref.	FCC-Limit (dBuV)	Measure (dBuV)
QP	48.0	44.0
AV	NO SPEC.	42.8



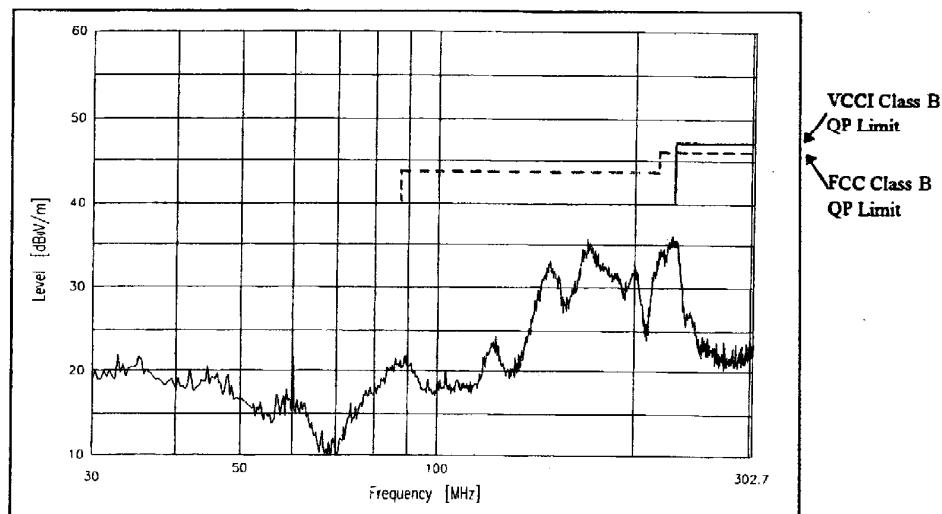
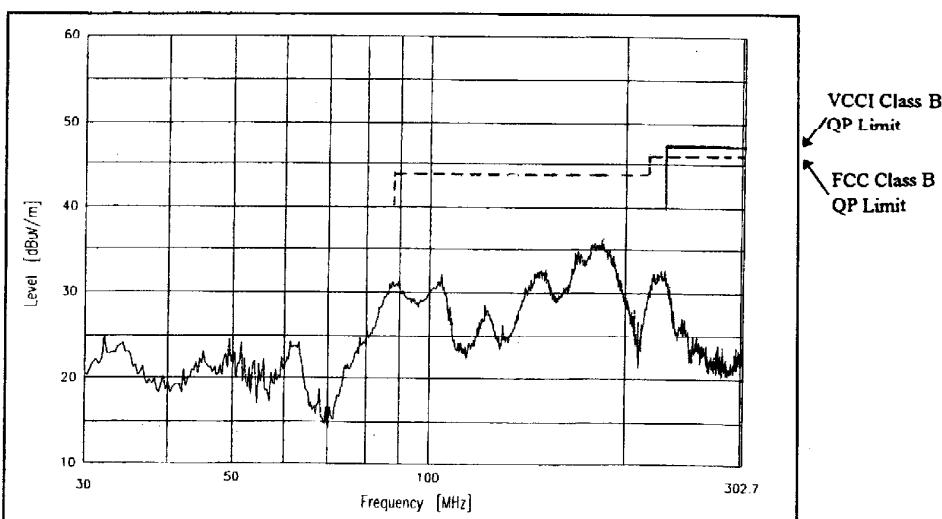
2.19 E M I 特性

Electro-Magnetic Interference characteristics

Conditions Vin : 100VAC
Iout : 100%

雜音電界強度

Radiated Emission

5 V**HORIZONTAL:****VERTICAL:**

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

2.19 E M I 特性

Electro-Magnetic Interference characteristics

Conditions

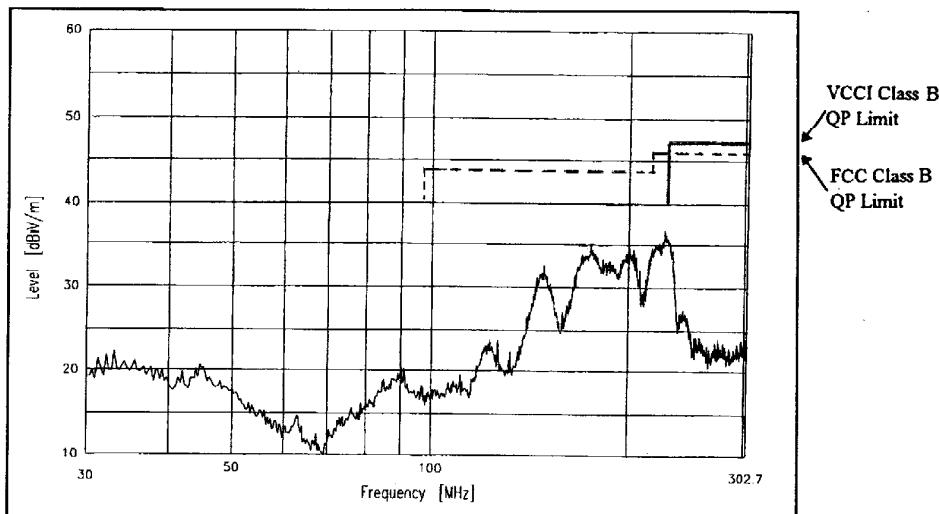
Vin : 100VAC

Iout : 100%

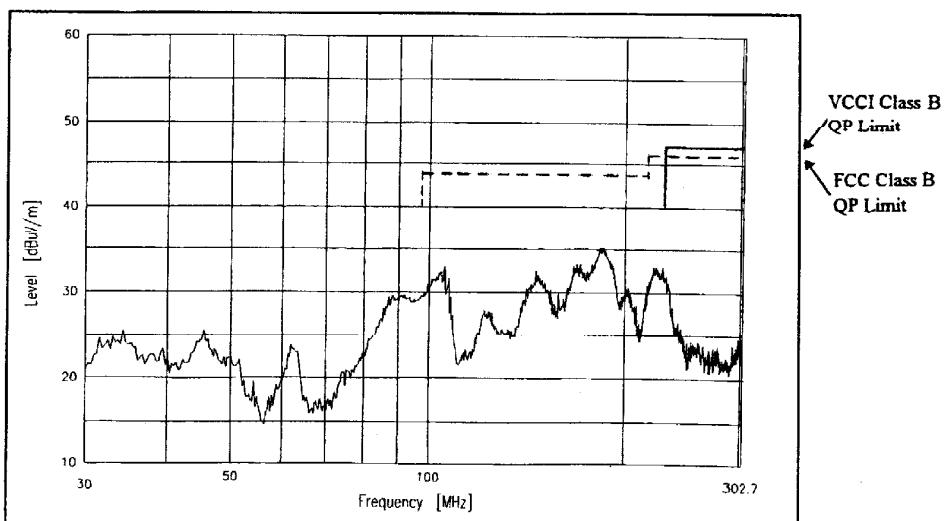
雜音電界強度
Radiated Emission

12 V

HORIZONTAL:



VERTICAL:



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

2.19 E M I 特性

Electro-Magnetic Interference characteristics

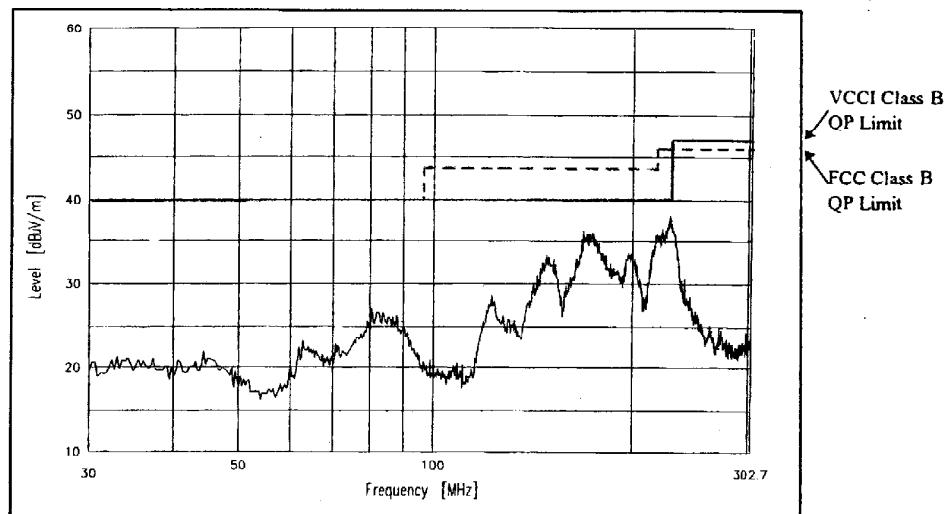
Conditions
Vin : 100VAC
Iout : 100%

雜音電界強度

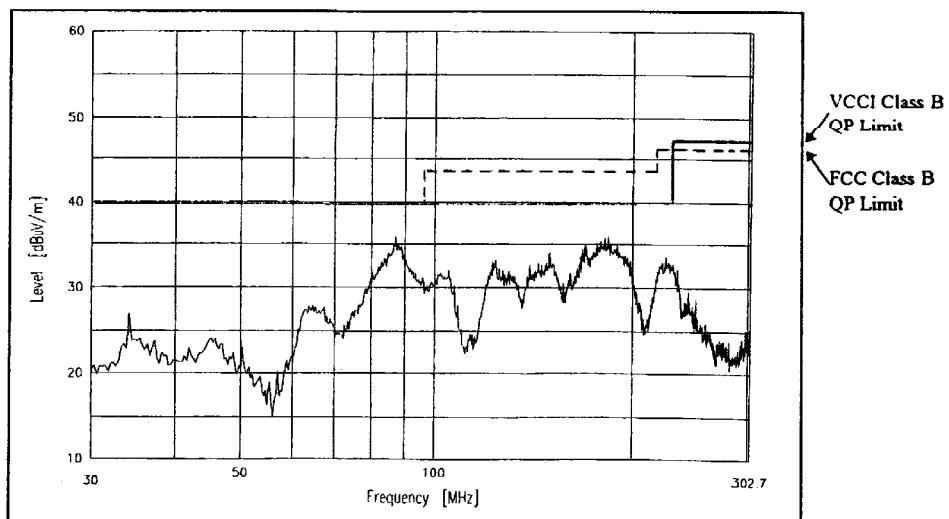
Radiated Emission

24 V

HORIZONTAL:



VERTICAL:



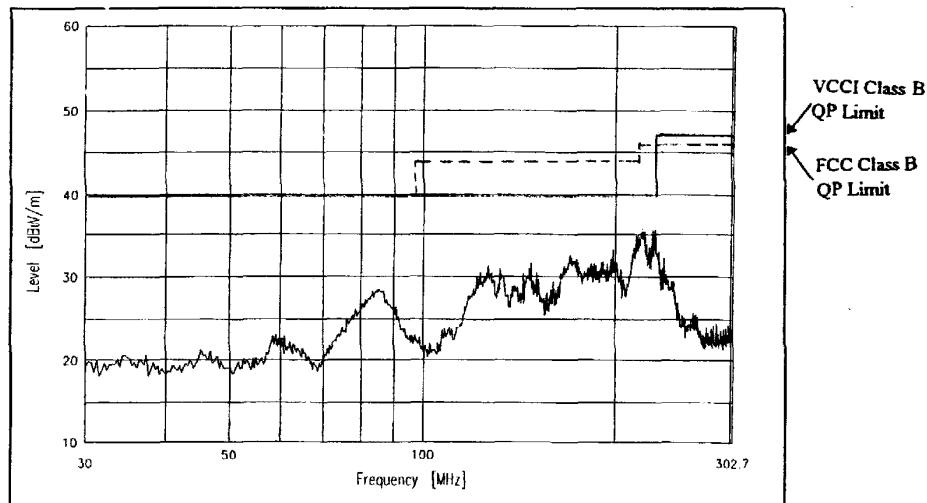
EN55011-B, EN55022-Bの限界値はVCCI class Bの限界値と同じ
Limits of EN55022-B are same as its VCCI class B.

2.19 E M I 特性

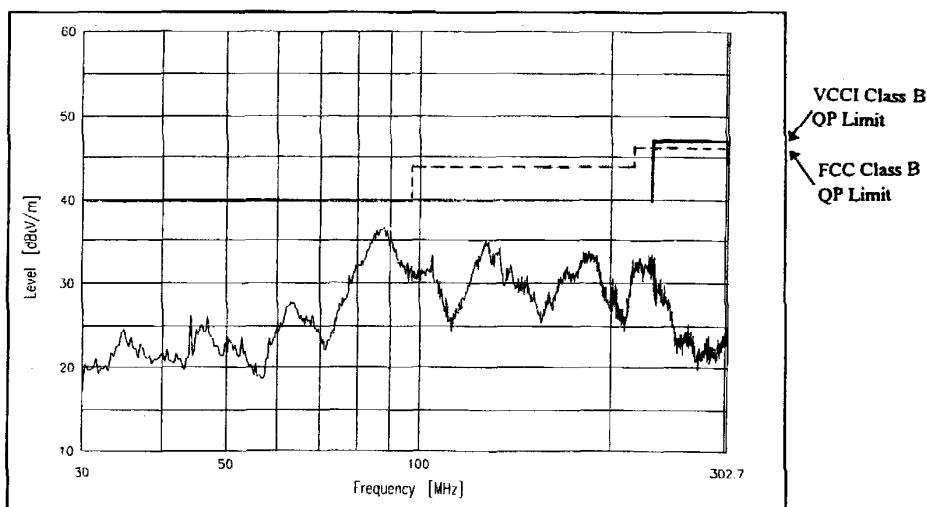
Electro-Magnetic Interference characteristics

Conditions Vin : 100VAC
Iout : 100%雜音電界強度
Radiated Emission**48 V**

HORIZONTAL:



VERTICAL:



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