

HWS300P

EVALUATION DATA

型式データ

INDEX

1. 測定方法 Evaluation Method	PAGE
1.1 測定回路 Circuit used for determination	
測定回路1 Circuit 1 used for determination	T-1
静特性 Steady state data	
通電ドリフト特性 Warm up voltage drift characteristics	
過電圧保護特性 Over voltage protection (OVP) characteristics	
過電流保護特性 Over current protection (OCP) 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	
過渡応答（入力急変）特性 Dynamic line response characteristics	
スタンバイ電流特性 Standby current characteristics	
測定回路2 Circuit 2 used for determination	T-1
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	
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	
測定回路3 Circuit 3 used for determination	T-2
過渡応答（負荷急変）特性 Dynamic load response characteristics	
測定回路4 Circuit 4 used for determination	T-2
入力サージ電流（突入電流）波形 Inrush current waveform	
瞬停時突入電流特性 Inrush current characteristics	
測定回路5 Circuit 5 used for determination	T-2
リーク電流特性 Leakage current characteristics	
測定回路6 Circuit 6 used for determination	T-3
出力リップル、ノイズ波形 Output ripple and noise waveform	
(a) Normal mode	
(b) Normal + Common mode	
測定構成 Configuration used for determination	T-4
EMI特性 Electro-Magnetic Interference characteristics	
(a) 雑音端子電圧（帰還ノイズ） Conducted Emission Noise	
(b) 雑音電界強度（輻射ノイズ） Radiated Emission Noise	
1.2 使用測定機器 List of equipment used	T-5
1.3 評価負荷条件 Load condition	T-5

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-6

(2) 出力電圧・リップルノイズ電圧対入力電圧

Output voltage and Ripple noise voltage vs. Input voltage .. T-7

(3) 効率・入力電流対出力電流

Efficiency and Input current vs. Output current..... T-8

(4) 力率・入力電流対出力電流

Power factor and Input current vs. Output current..... T-9

2.2 通電ドリフト特性 Warm up voltage drift characteristics T-10

2.3 過電流保護特性 Over current protection (OCP) characteristics T-11~12

2.4 過電圧保護特性 Over voltage protection (OVP) characteristics T-13

2.5 出力立ち上がり特性 Output rise characteristics T-14~16

2.6 出力立ち下がり特性 Output fall characteristics T-17~18

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-19

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-20

2.9 出力保持時間特性 Hold up time characteristics T-21

2.10 過渡応答（入力急変）特性 Dynamic line response characteristics T-22

2.11 過渡応答（負荷急変）特性 Dynamic load response characteristics T-23~25

2.12 入力電圧瞬停特性 Response to brown out characteristics T-26~27

2.13 入力サージ電流（突入電流）波形 Inrush current waveform T-28~29

2.14 瞬停時突入電流特性 Inrush current characteristics T-30

2.15 入力電流波形 Input current waveform T-31

2.16 高調波成分 Input current harmonics T-32

2.17 リーク電流特性 Leakage current characteristics T-33

2.18 出力リップル、ノイズ波形 Output ripple and noise waveform T-34~36

2.19 スタンバイ電流特性 Standby current characteristics T-37

2.20 EMI特性 Electro-Magnetic Interference characteristics T-38~43

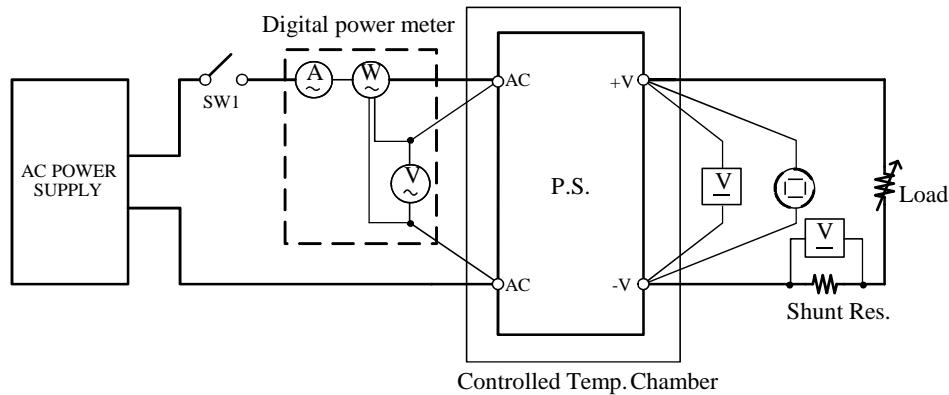
使用記号 Terminology used

Definition

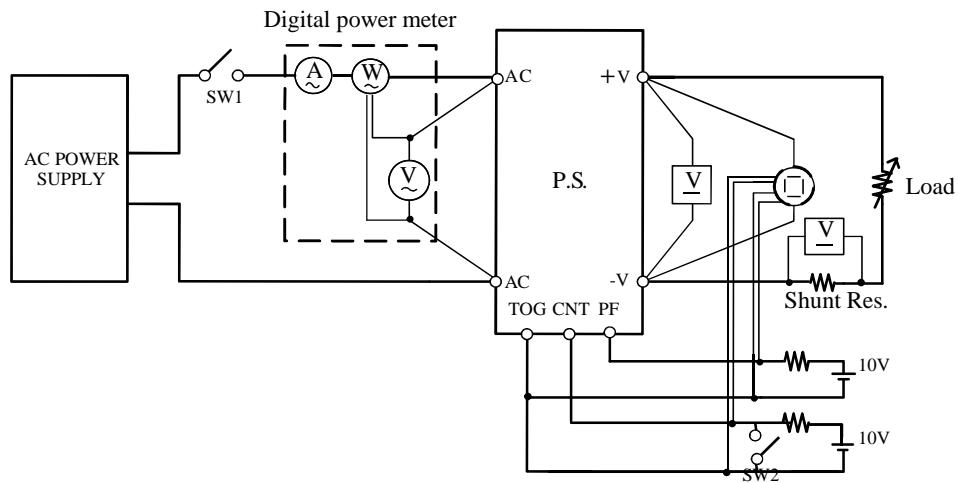
Vin	.....	入力電圧	Input voltage
Vout	.....	出力電圧	Output voltage
Iin	.....	入力電流	Input current
Iout	.....	出力電流	Output current
Ta	.....	周囲温度	Ambient temperature
f	.....	周波数	Frequency

測定回路1 Circuit 1

- ・静特性
 - ・通電ドリフト特性
 - ・過電圧保護特性
 - ・過電流保護特性
 - ・出力立ち上がり特性
 - ・出力立ち下がり特性
 - ・過渡応答（入力急変）特性
 - ・スタンバイ電流特性
- Steady state data
 Warm up voltage drift characteristics
 Over voltage protection (OVP) characteristics
 Over current protection (OCP) characteristics
 Output rise characteristics
 Output fall characteristics
 Dynamic line response characteristics
 Standby current characteristics

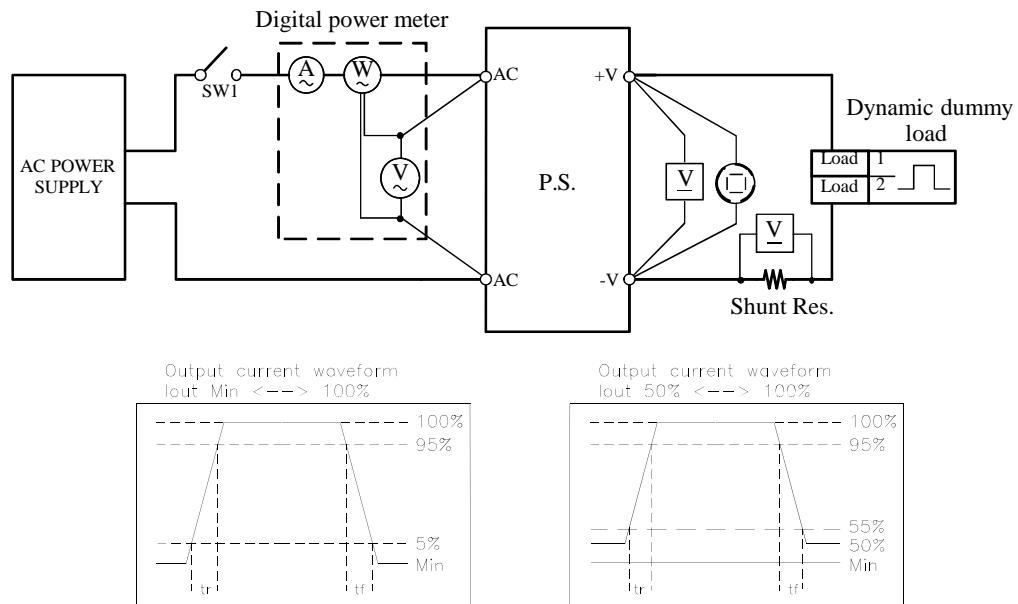
測定回路2 Circuit 2

- ・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
- ・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



測定回路3 Circuit 3

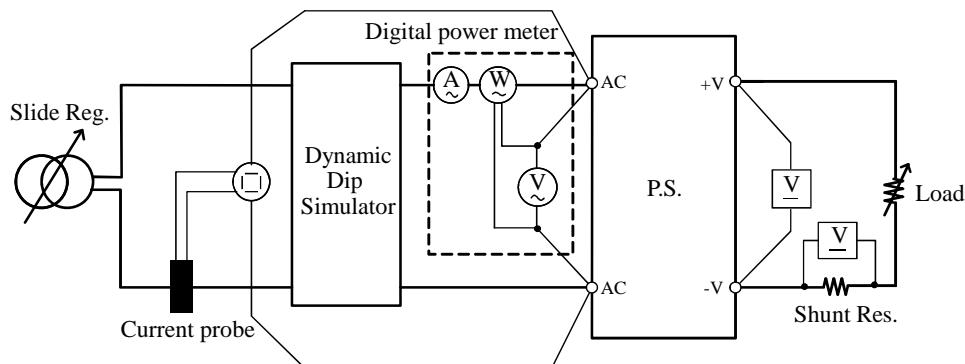
・過渡応答（負荷急変）特性 Dynamic load response characteristics



測定回路4 Circuit 4

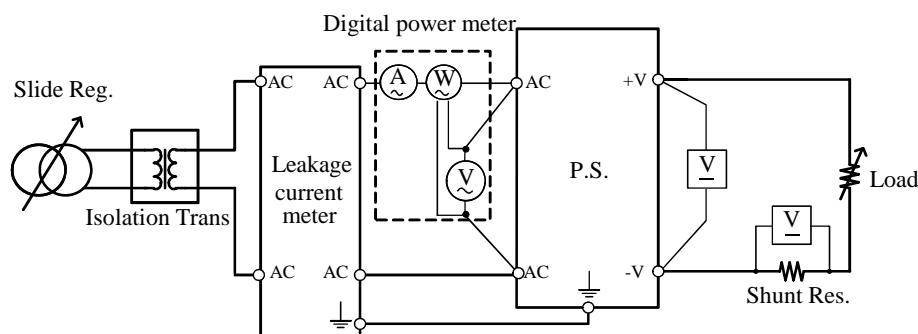
・入力サージ電流（突入電流）波形
・瞬停時突入電流特性

Inrush current waveform
Inrush current characteristics



測定回路5 Circuit 5

・リーク電流特性 Leakage current characteristics

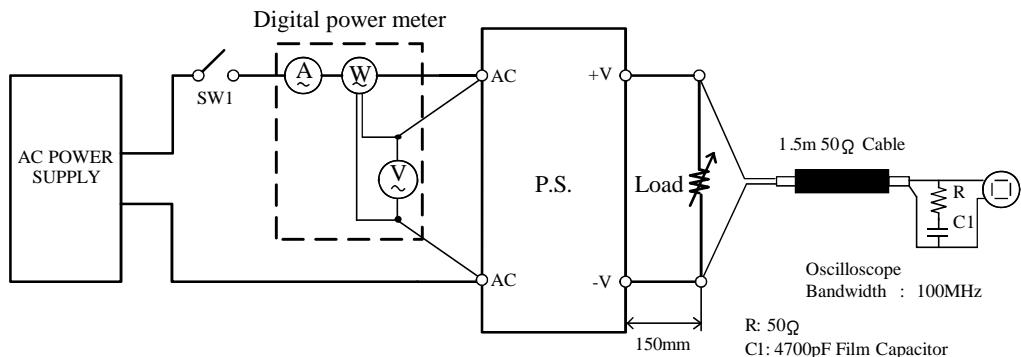


NOTE: Leakage current meter HIOKI TYPE 3156

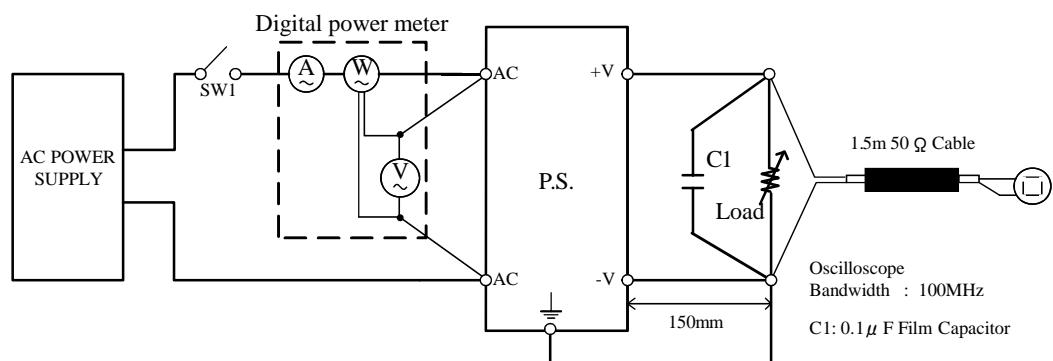
測定回路6 Circuit 6

・出力リップル、ノイズ波形
(a) Normal mode

Output ripple and noise waveform

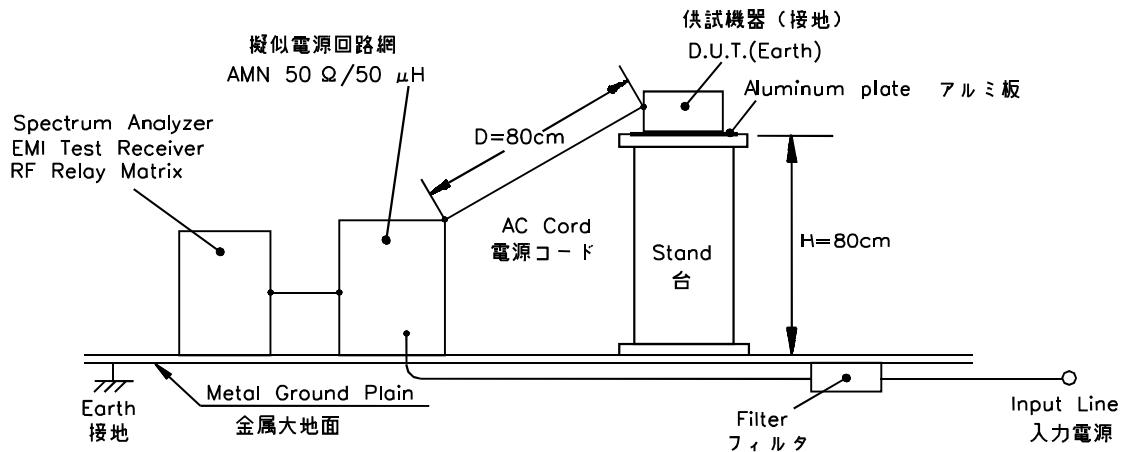


(b) Normal + Common mode

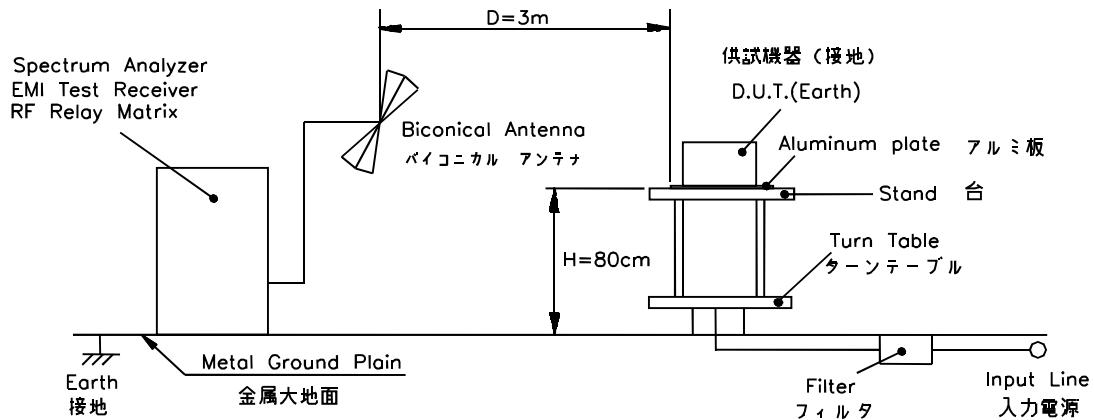


測定構成 Configuration

- 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



	EQUIPMENT USED	MANUFACTURER	MODEL NO.
1	OSCILLOSCOPE	HITACHI	V-1100A
2	OSCILLOSCOPE	YOKOGAWA ELECT.	DL1740EL/9040L
3	DIGITAL MULTIMETER	AGILENT	34970A
4	DYNAMIC DIP SIMULATOR	TAKAMISAWA	PSA-210
5	DIGITAL POWER METER	YOKOGAWA ELECT.	WT210
6	DYNAMIC DUMMY LOAD	TAKASAGO	FK600L / 1000L
7	DUMMY LOAD	PCN	RHF250 Series
8	SLIDE REGURATOR	MATSUNAGA	SD-2450
9	AC POWER SUPPLY	KIKUSUI	PCR-4000L
10	AC POWER SUPPLY	TAKASAGO	AA2000XG
11	LEAKAGE CURRENT METER	HIOKI	3156
12	CONTROLLED TEMP. CHAMBER	TABAI ESPEC	SU-641
13	SPECTRUM ANALYZER	ROHDE & SCHWARZ	ESPI3
14	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESHS10
15	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESVS10
16	RF RELAY MATRIX	ROHDE & SCHWARZ	PSU
17	AMN	KYORITU DENSHI	KNW-242
18	ANTENA(BICONICAL ANTENA)	SCHWARZBECK	BBA9106

1.3 評価負荷条件 Load condition

Output	Load conditions		
	24V	36V	48V
	Io(A)		
100%	12.5	8.4	6.3
100VAC_Peak Load	21	14	10.5
200VAC_Peak Load	42	28	21

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

24V

1. Regulation - line and load

Condition Ta : 25°C

Iout \ Vin	85VAC	100VAC	200VAC	265VAC	line regulation	
0%	23.961V	23.959V	23.959V	23.959V	2mV	0.008%
50%	23.959V	23.957V	23.958V	23.958V	2mV	0.008%
100%	23.957V	23.955V	23.956V	23.957V	2mV	0.008%
load regulation	4mV	4mV	3mV	2mV		
	0.017%	0.017%	0.013%	0.008%		

2. Temperature drift

Conditions Vin=100VAC

Iout=100%

Ta	-10°C	+25°C	+50°C	temperature stability
Vout	23.860V	23.955V	24.004V	144mV 0.600%

36V

1. Regulation - line and load

Condition Ta : 25°C

Iout \ Vin	85VAC	100VAC	200VAC	265VAC	line regulation	
0%	36.003V	35.999V	35.998V	35.999V	5mV	0.014%
50%	36.001V	35.996V	35.998V	35.998V	5mV	0.014%
100%	35.999V	35.995V	35.996V	35.997V	4mV	0.011%
load regulation	4mV	4mV	2mV	2mV		
	0.011%	0.011%	0.006%	0.006%		

2. Temperature drift

Conditions Vin=100VAC

Iout=100%

Ta	-10°C	+25°C	+50°C	temperature stability
Vout	35.843V	35.995V	36.101V	258mV 0.717%

48V

1. Regulation - line and load

Condition Ta : 25°C

Iout \ Vin	85VAC	100VAC	200VAC	265VAC	line regulation	
0%	47.976V	47.973V	47.972V	47.973V	4mV	0.008%
50%	47.973V	47.971V	47.971V	47.971V	2mV	0.004%
100%	47.970V	47.968V	47.969V	47.968V	2mV	0.004%
load regulation	6mV	5mV	3mV	5mV		
	0.013%	0.010%	0.006%	0.010%		

2. Temperature drift

Conditions Vin=100VAC

Iout=100%

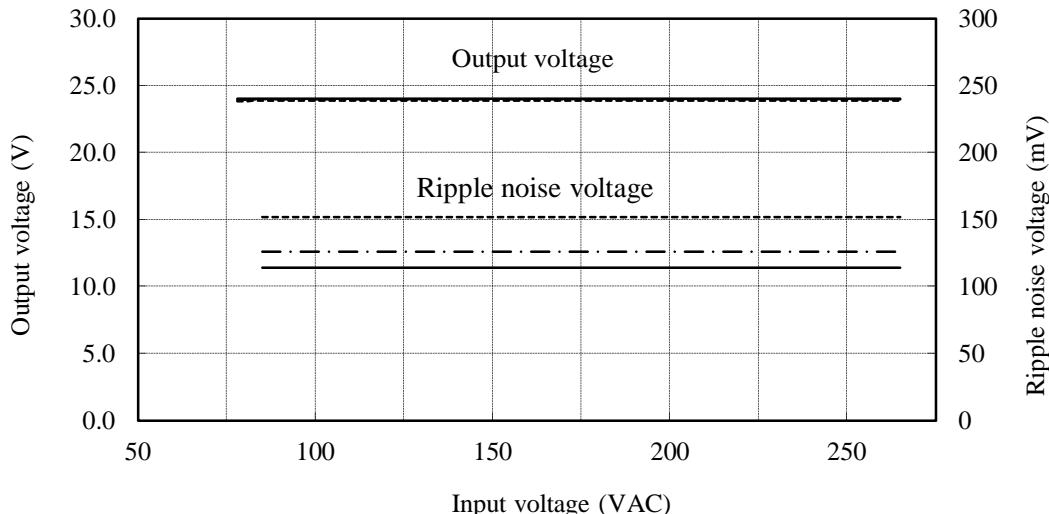
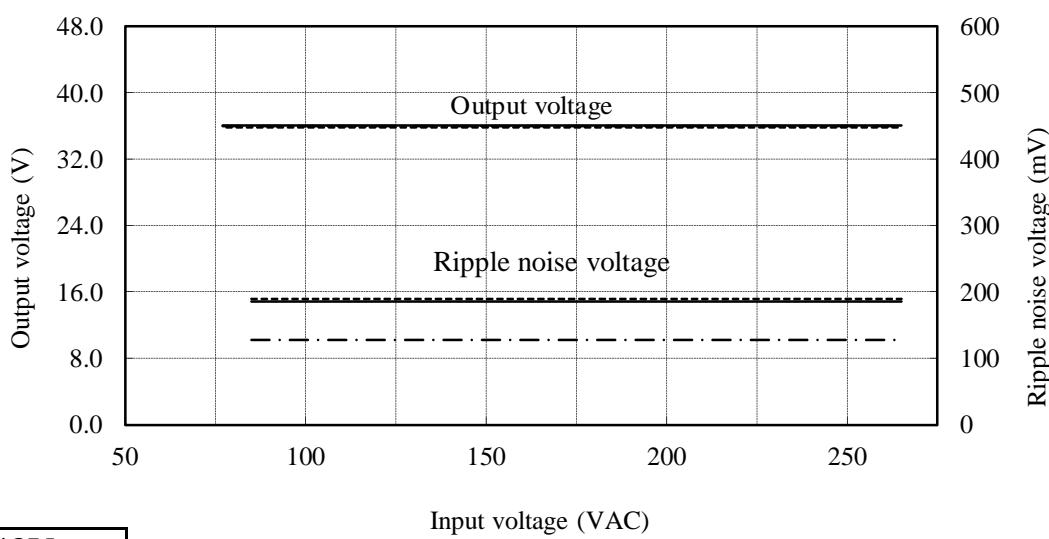
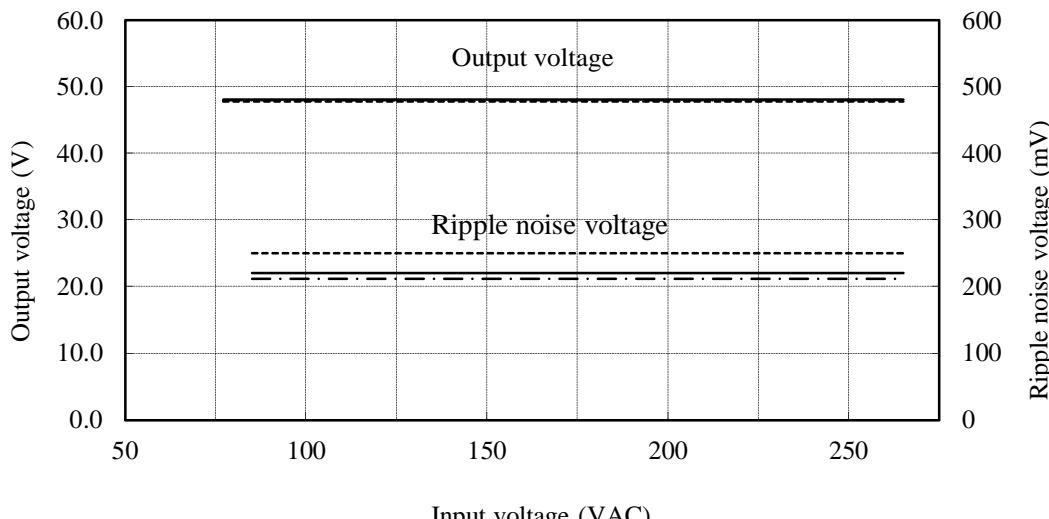
Ta	-10°C	+25°C	+50°C	temperature stability
Vout	47.787V	47.968V	48.074V	287mV 0.598%

(2) 出力電圧・リップルノイズ電圧対入力電圧

Output voltage and Ripple noise voltage vs. Input voltage

Conditions

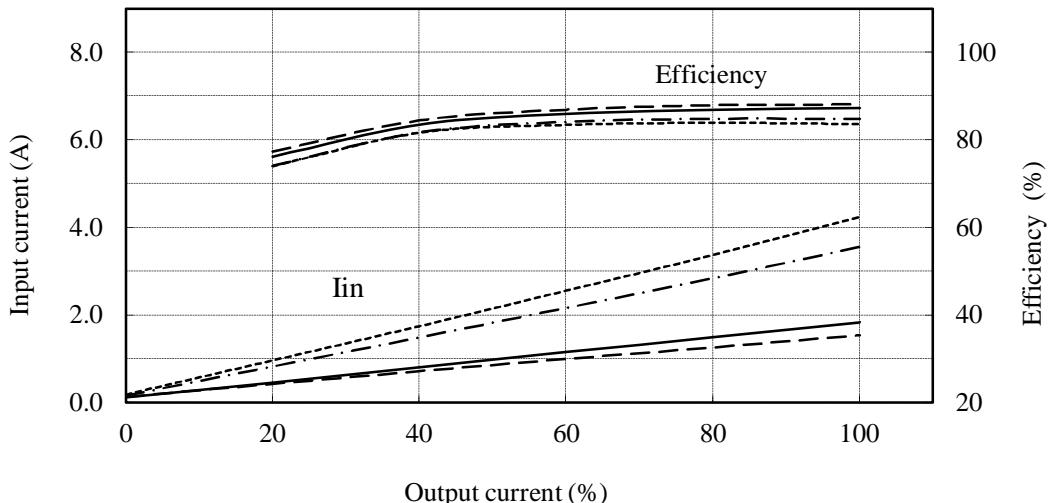
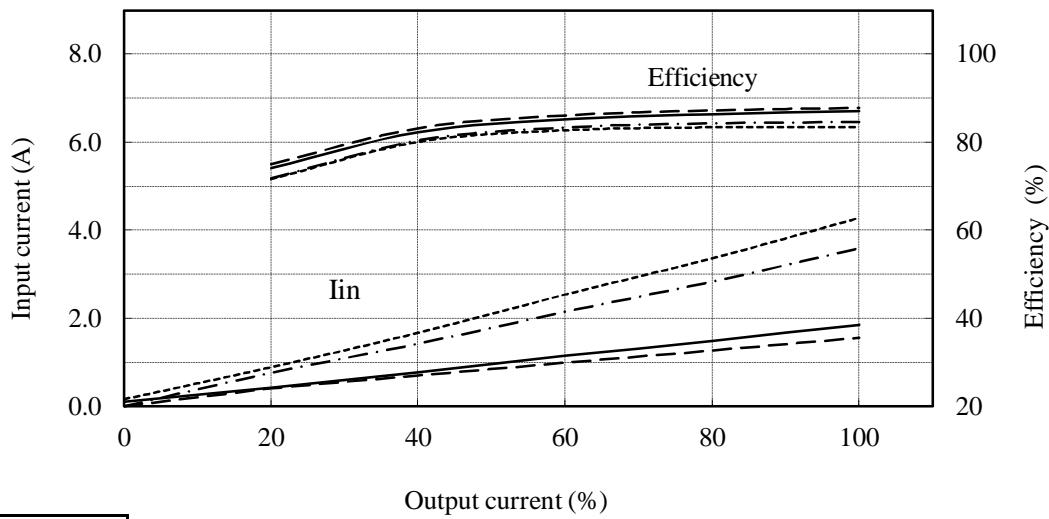
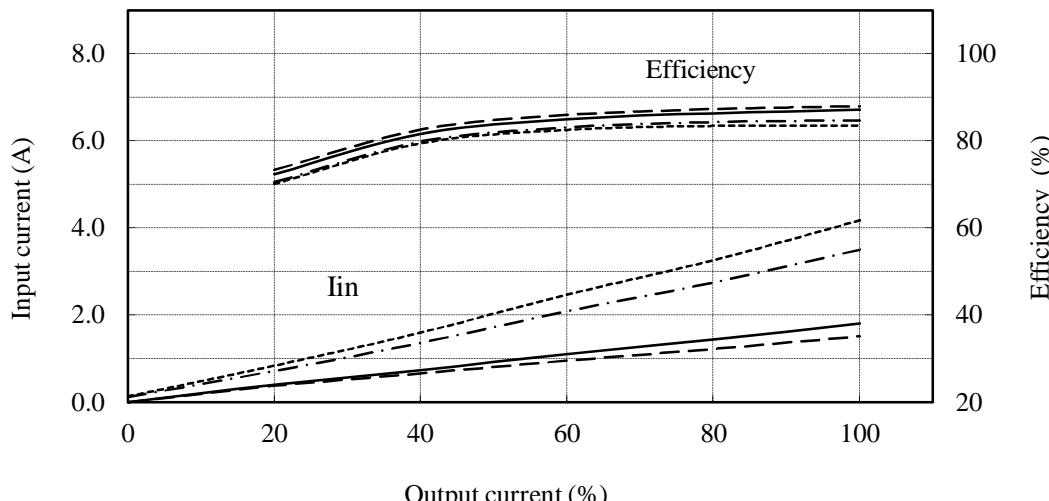
Iout :	100 %
Ta :	-10 °C
	25 °C
	50 °C

24V**36V****48V**

(3) 効率・入力電流対出力電流

Efficiency and Input current vs. Output current

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

24V**36V****48V**

(4) 力率・入力電流対出力電流

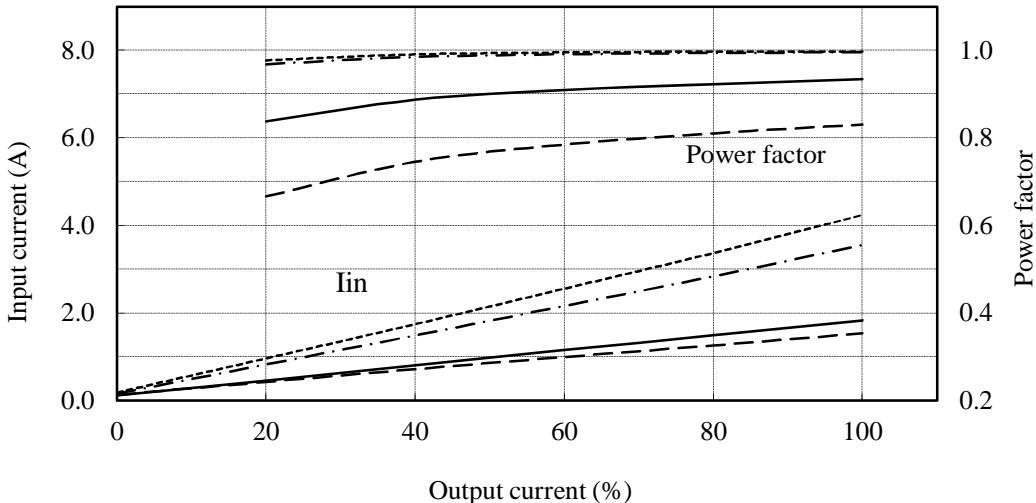
Power factor and Input current vs. Output current

Conditions

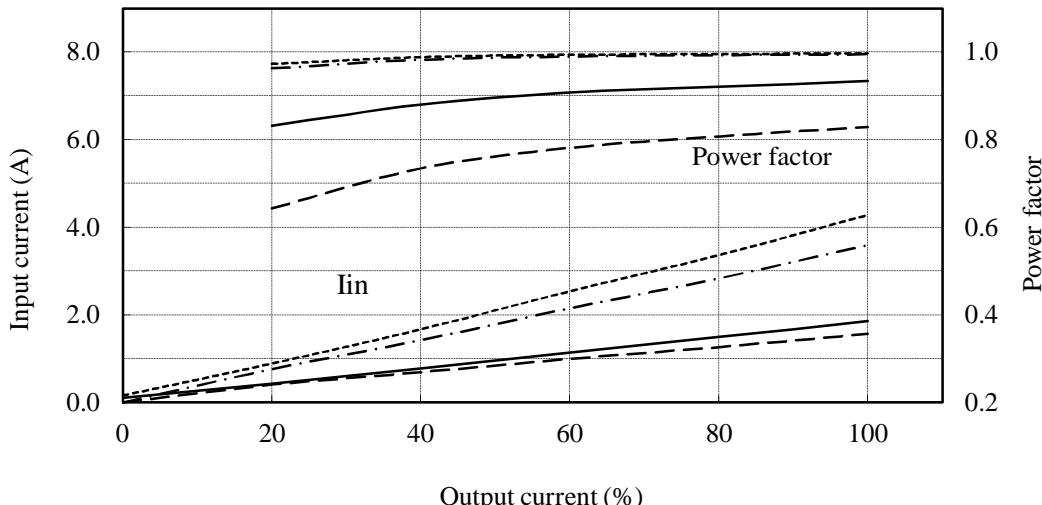
Vin :	85 VAC	-----
	100 VAC	- - -
	200 VAC	—
	265 VAC	---

Ta : 25 °C

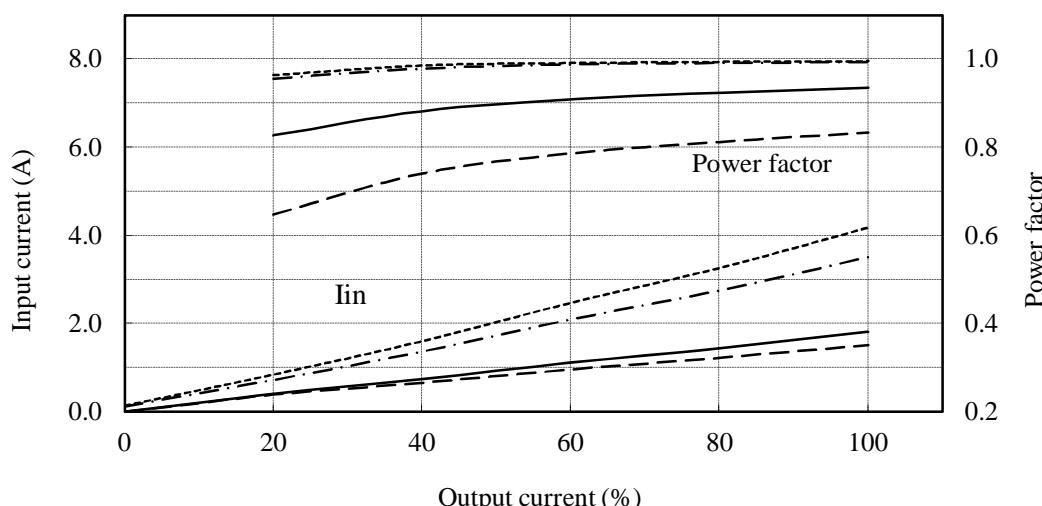
24V



36V



48V



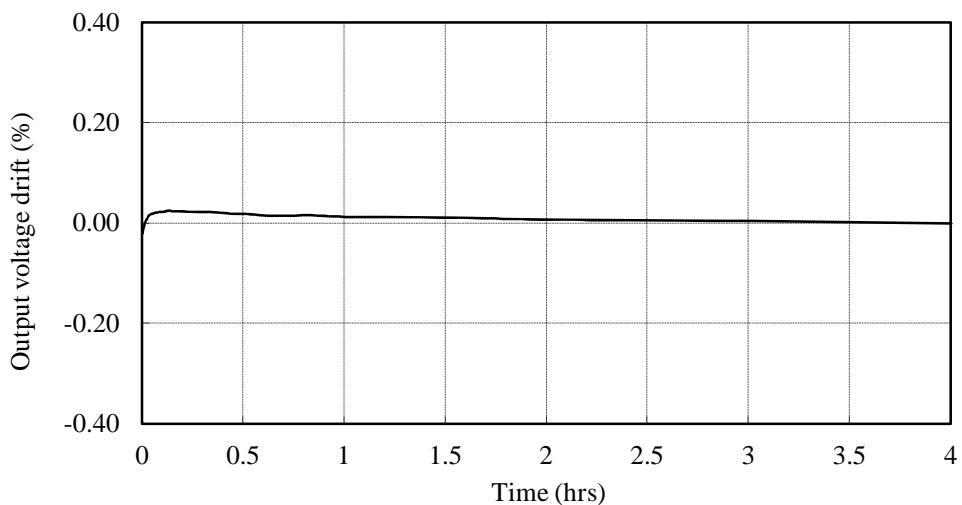
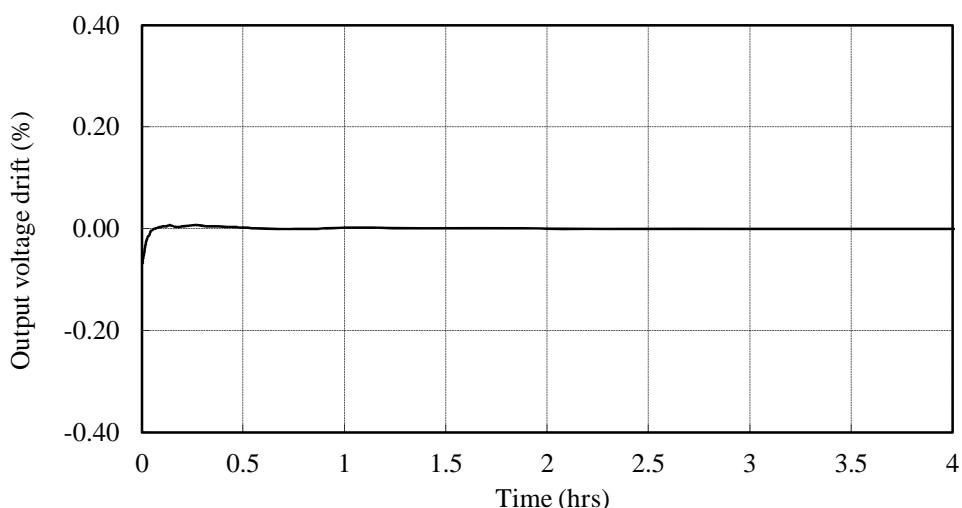
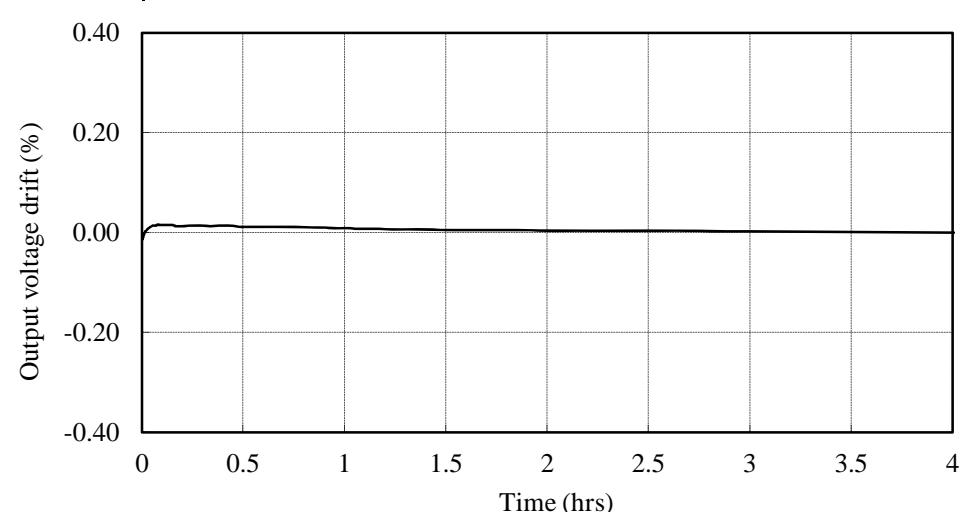
2.2 通電ドリフト特性

Warm up voltage drift characteristics

Conditions Vin : 100 VAC

Iout : 100 %

Ta : 25 °C

24V**36V****48V**

2.3 過電流保護特性

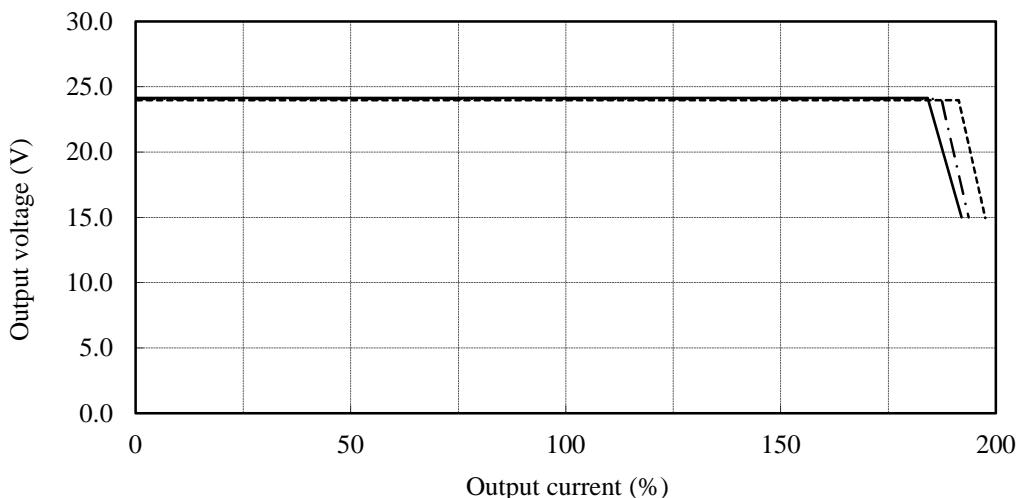
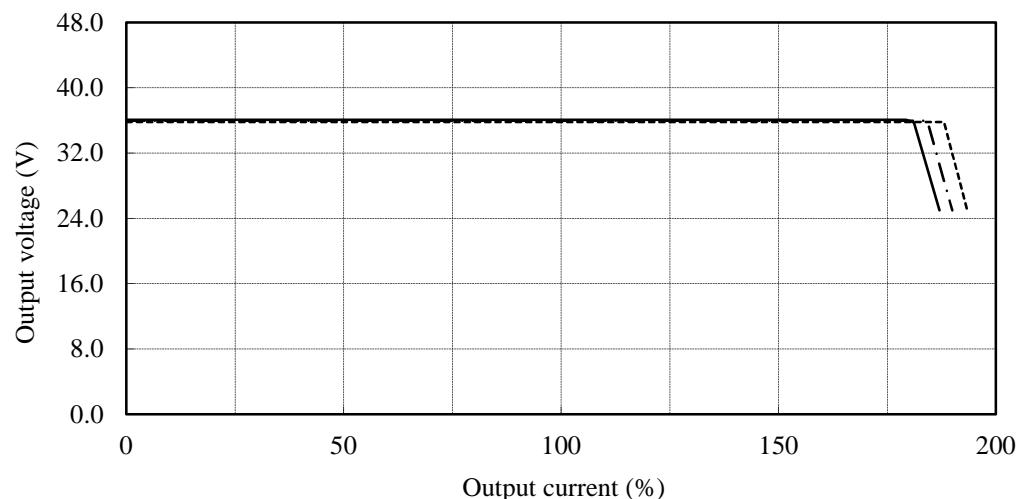
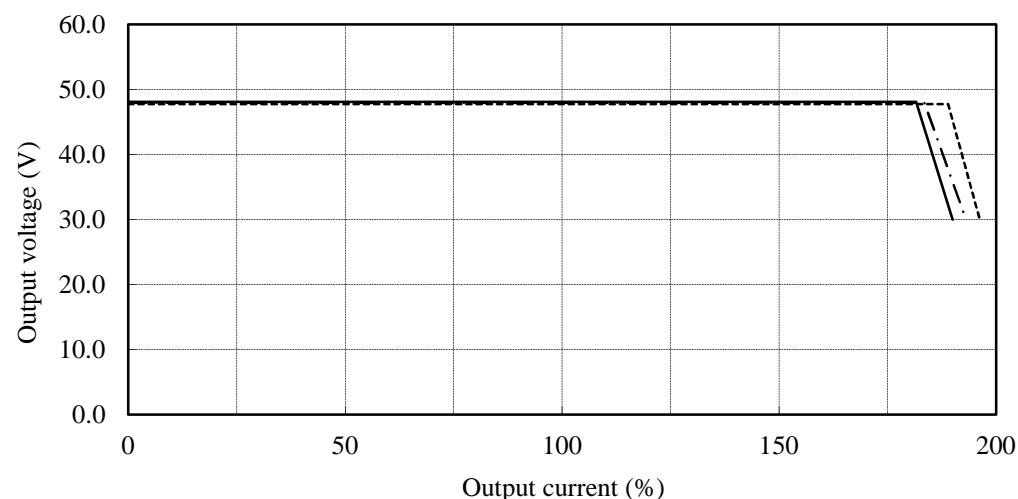
Over current protection (OCP) characteristics

Conditions Vin : 100 VAC

Ta : -10 °C

25 °C

50 °C

24V**36V****48V**

2.3 過電流保護特性

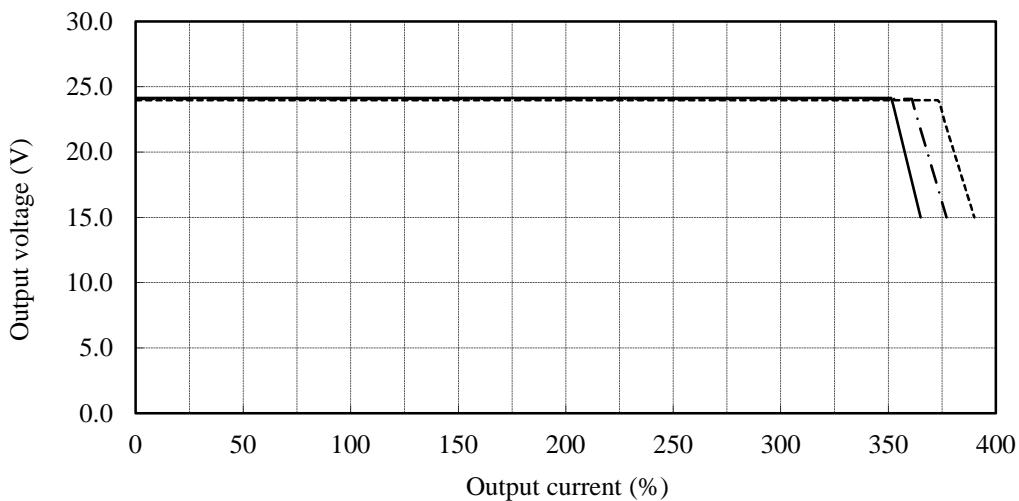
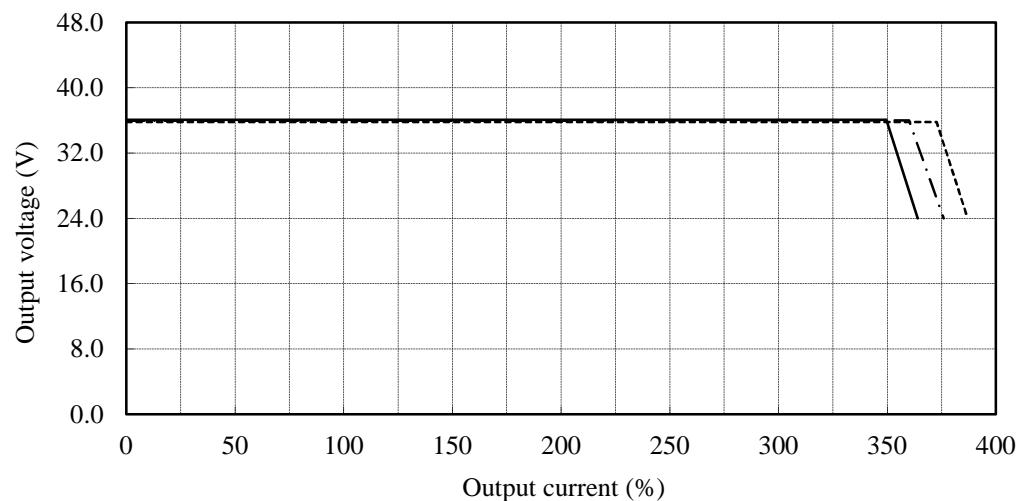
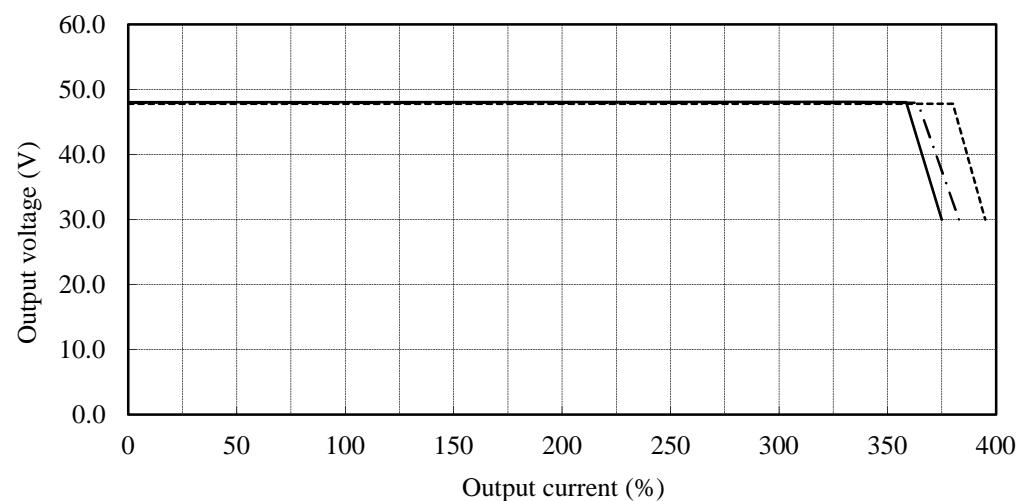
Over current protection (OCP) characteristics

Conditions Vin : 200 VAC

Ta : -10 °C

25 °C

50 °C

24V**36V****48V**

2.4 過電圧保護特性

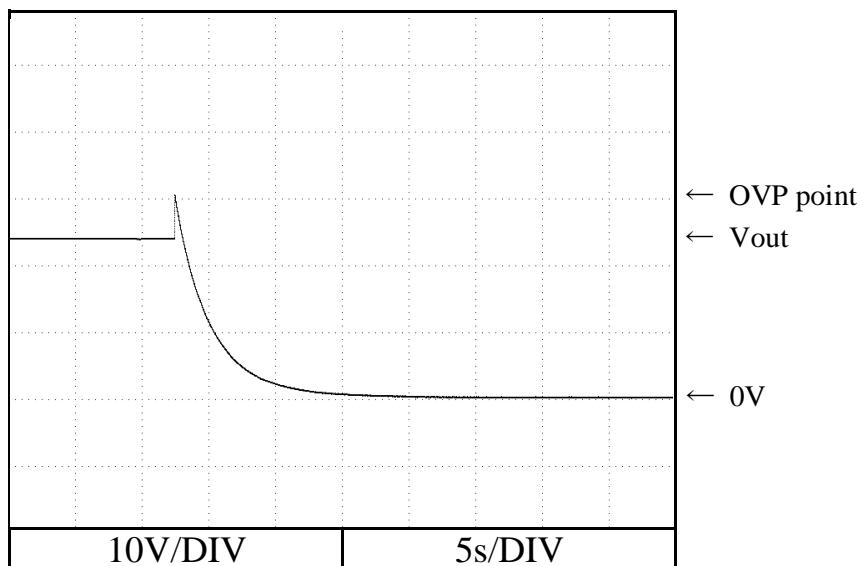
Over voltage protection (OVP) characteristics

Conditions Vin : 100 VAC

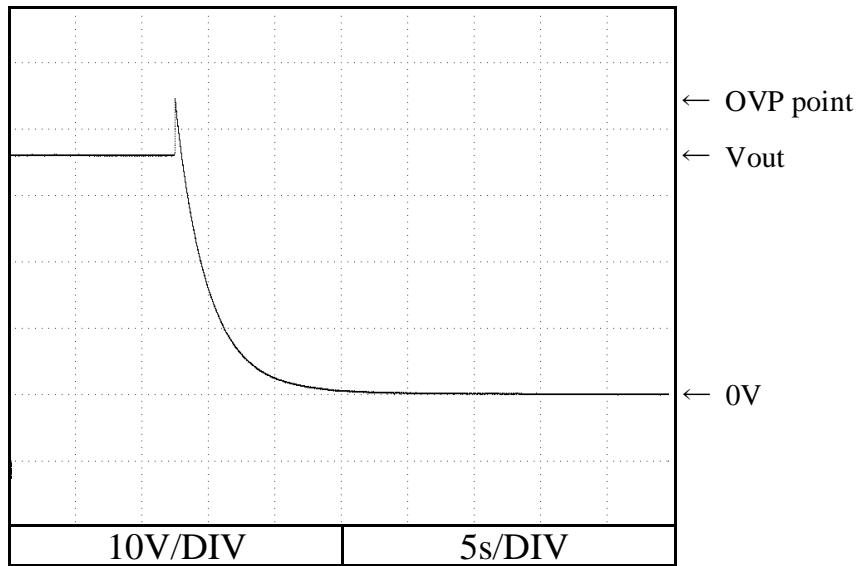
Iout : 0 %

Ta : 25 °C

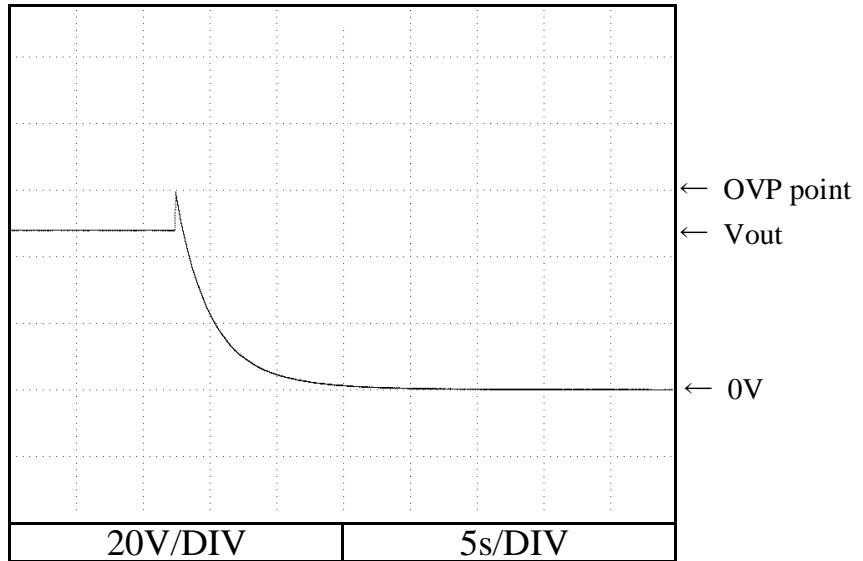
24V



36V



48V



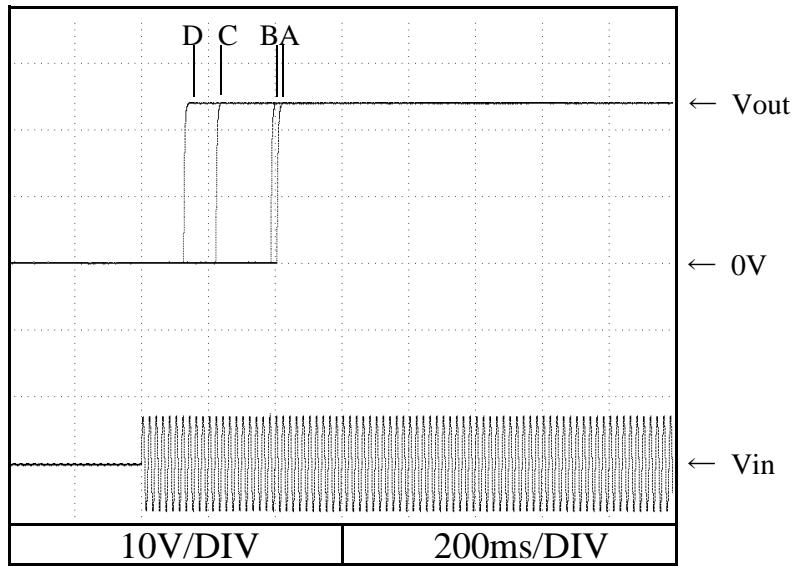
2.5 出力立ち上がり特性

Output rise characteristics

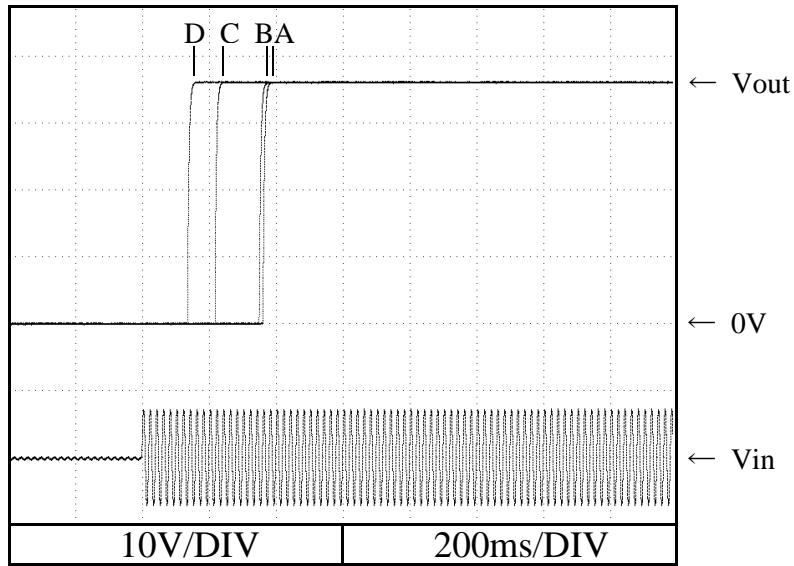
Conditions Vin : 85 VAC (A)
100 VAC (B)
200 VAC (C)
265 VAC (D)

Iout : 0 %
Ta : 25 °C

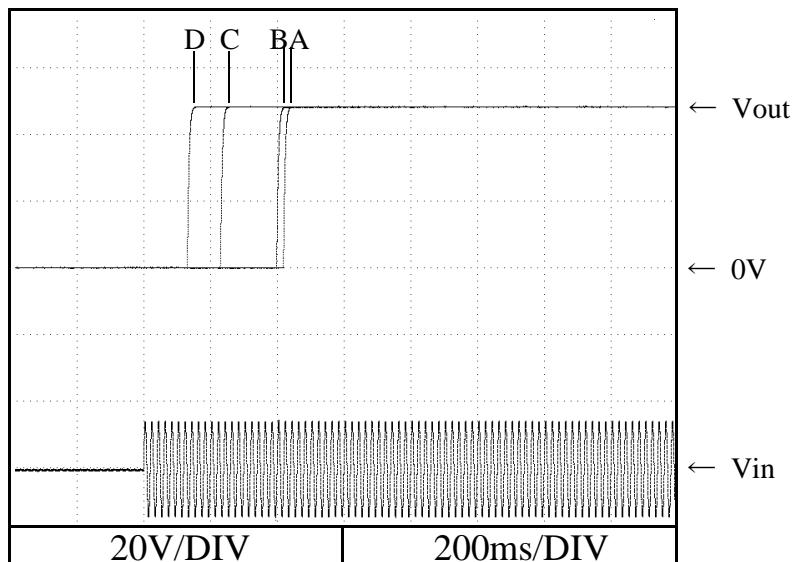
24V



36V



48V



2.5 出力立ち上がり特性

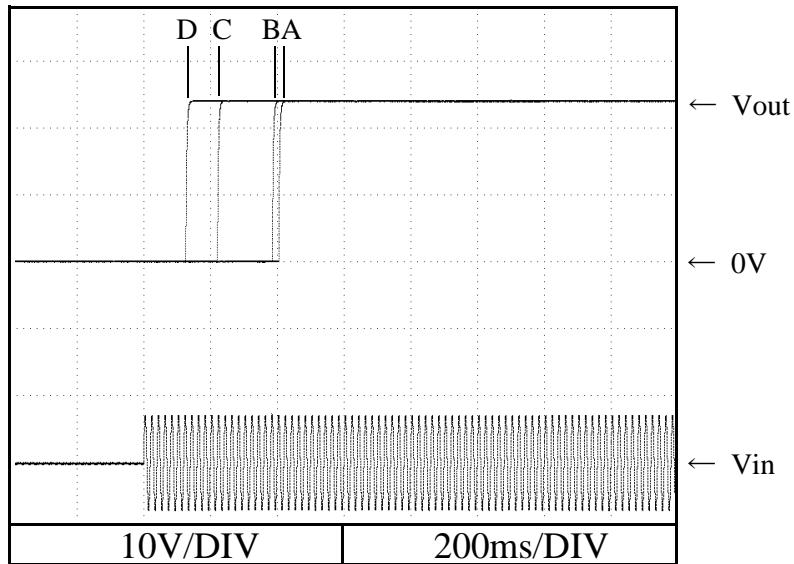
Output rise characteristics

Conditions Vin : 85 VAC (A)
100 VAC (B)
200 VAC (C)
265 VAC (D)

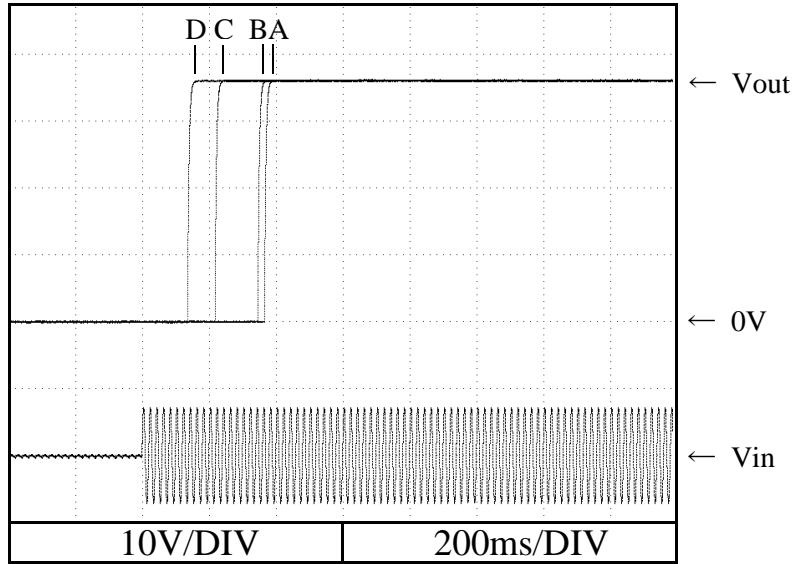
Iout : 100 %

Ta : 25 °C

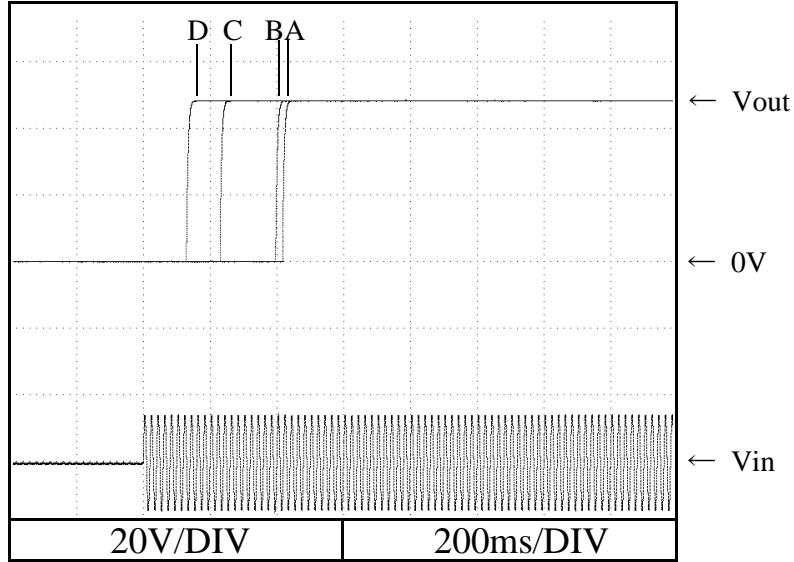
24V



36V



48V



2.5 出力立ち上がり特性

Output rise characteristics

Conditions Vin : 85 VAC (A)

100 VAC (B)

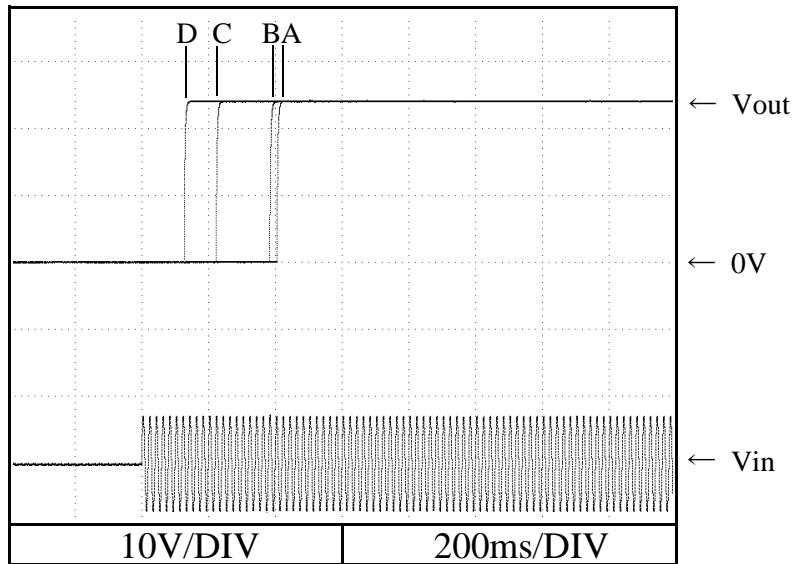
200 VAC (C)

265 VAC (D)

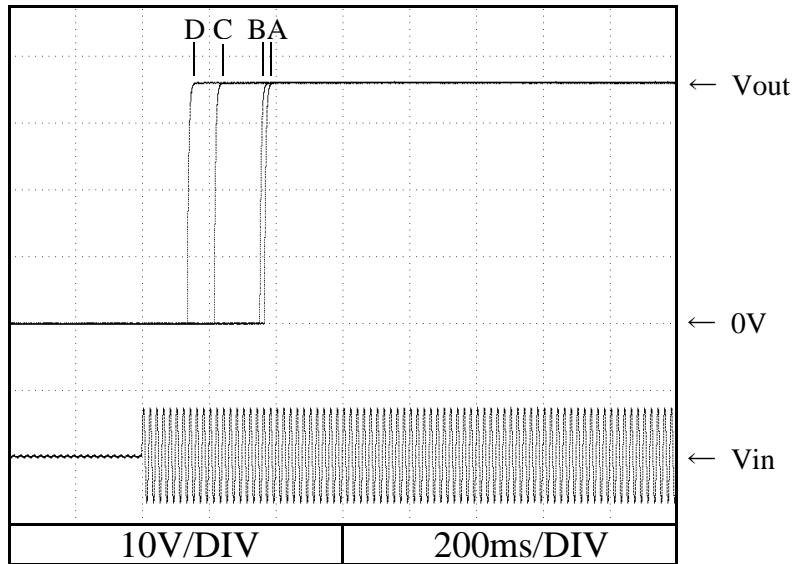
Iout : Peak load

Ta : 25 °C

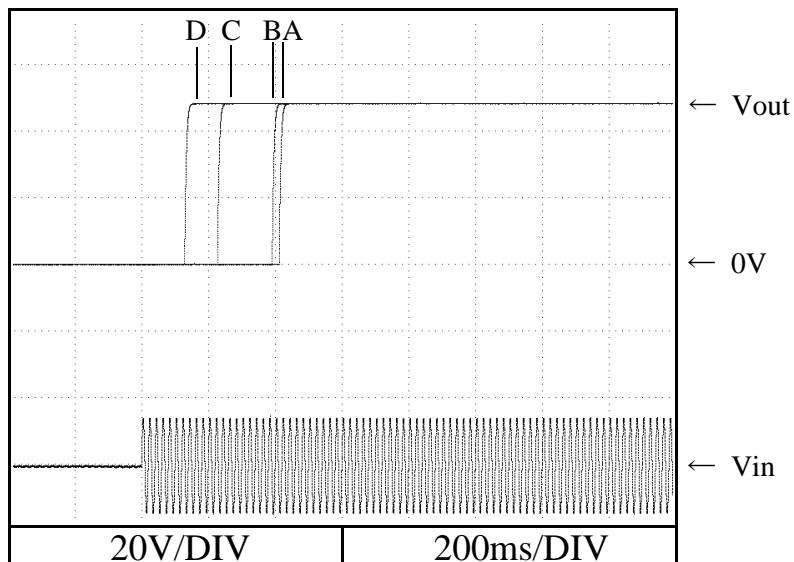
24V



36V



48V



2.6 出力立ち下がり特性

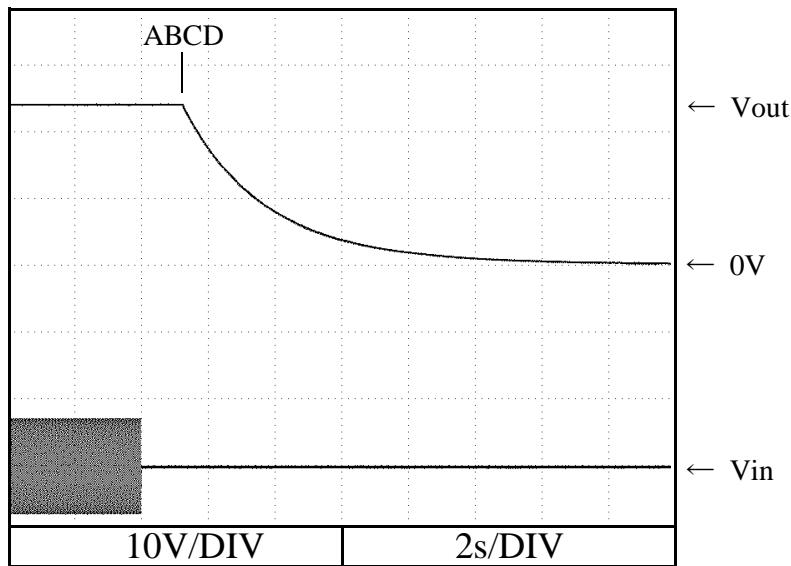
Output fall characteristics

Conditions Vin : 85 VAC (A)
100 VAC (B)
200 VAC (C)
265 VAC (D)

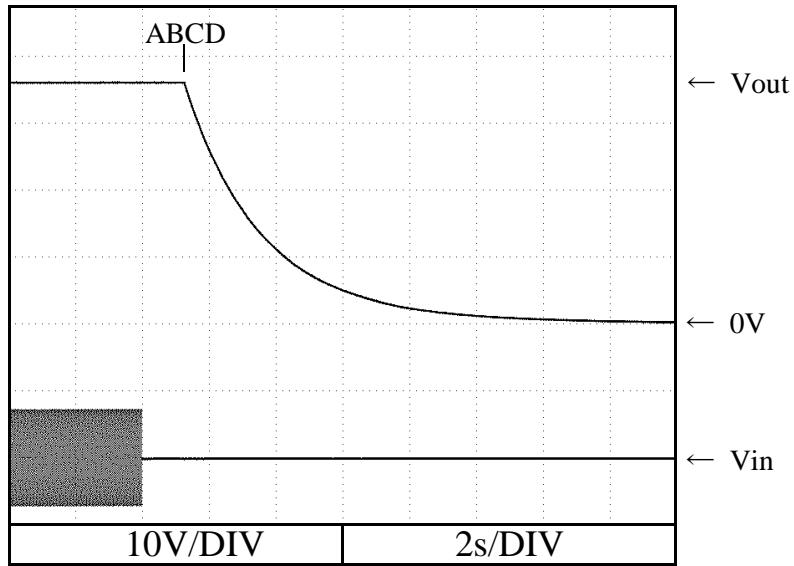
Iout : 0 %

Ta : 25 °C

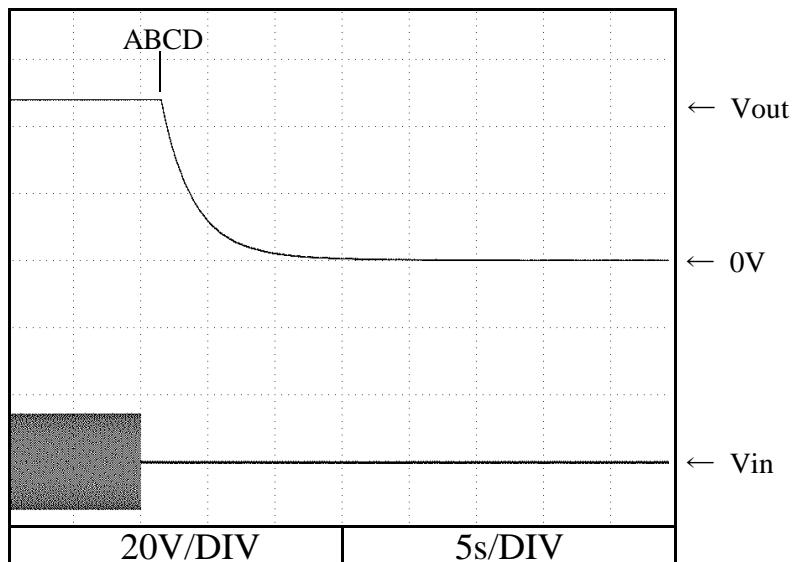
24V



36V



48V



2.6 出力立ち下がり特性

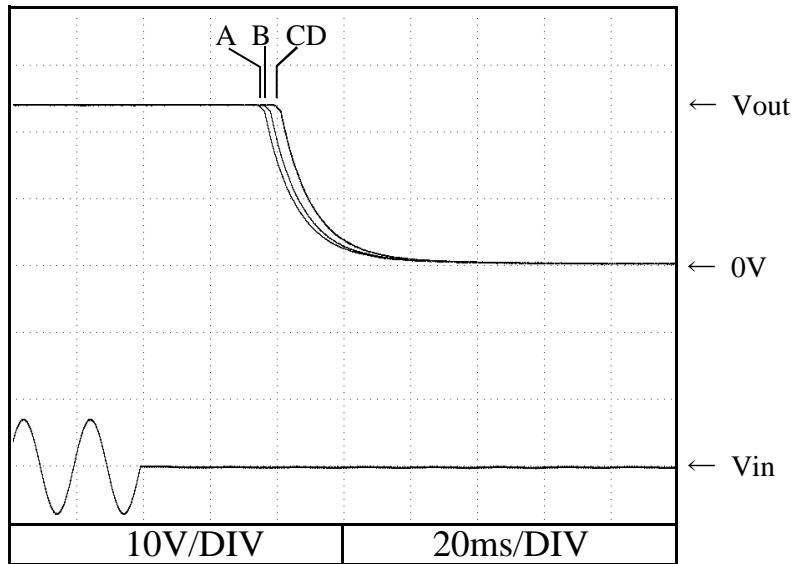
Output fall characteristics

Conditions Vin : 85 VAC (A)
100 VAC (B)
200 VAC (C)
265 VAC (D)

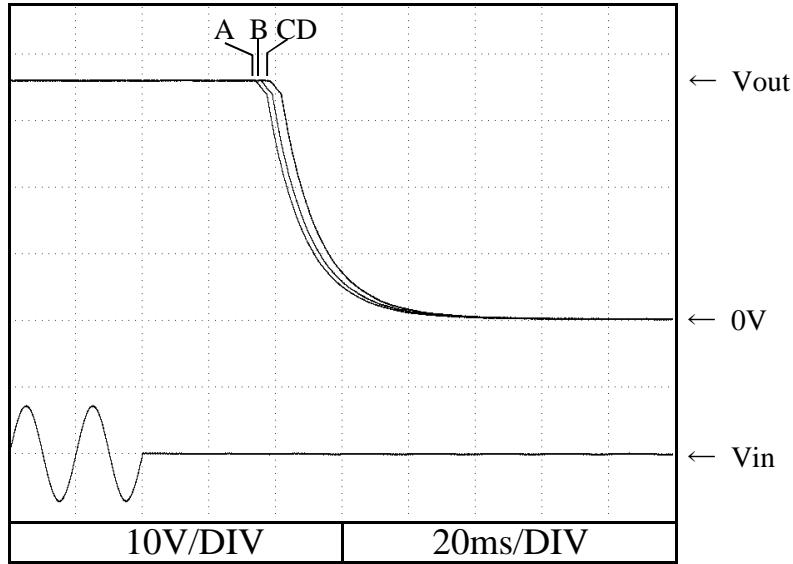
Iout : 100 %

Ta : 25 °C

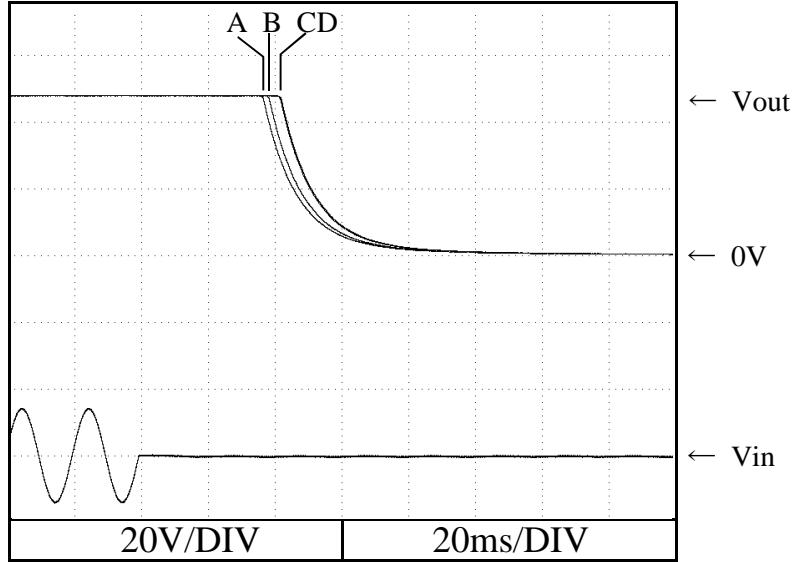
24V



36V



48V



2.7 ON/OFFコントロール時出力立ち上がり特性

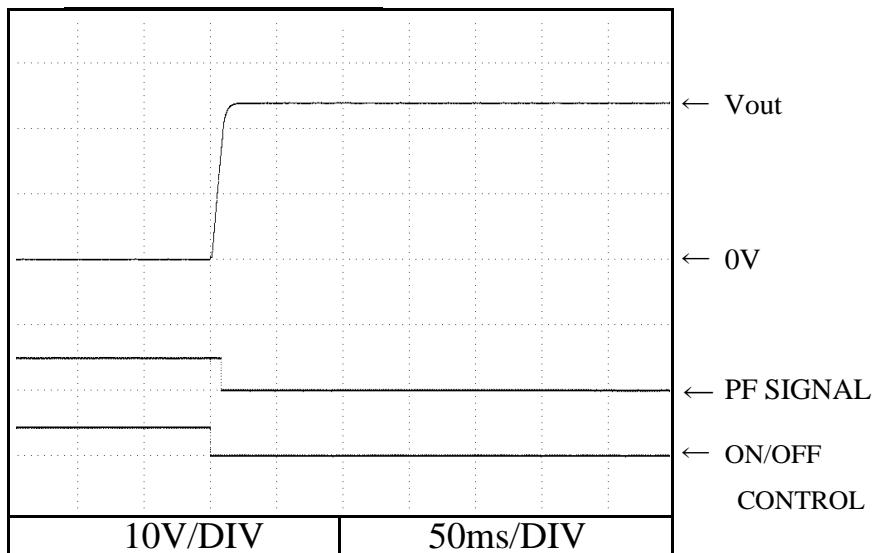
Output rise characteristics with ON/OFF Control

Conditions Vin : 100 VAC

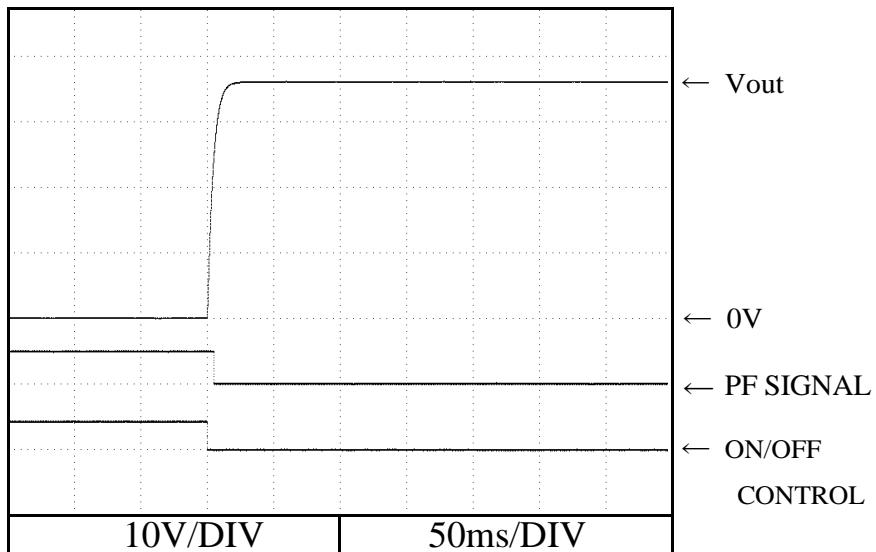
Iout : 100 %

Ta : 25 °C

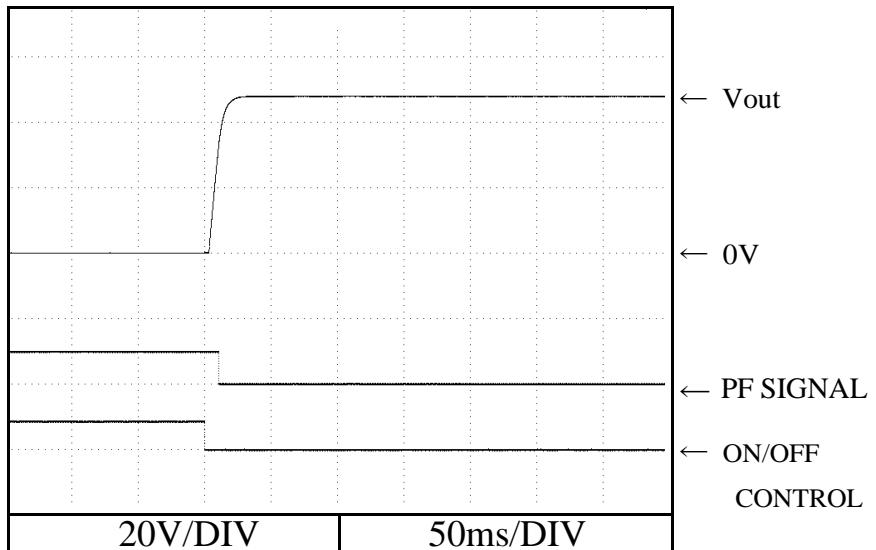
24V



36V



48V

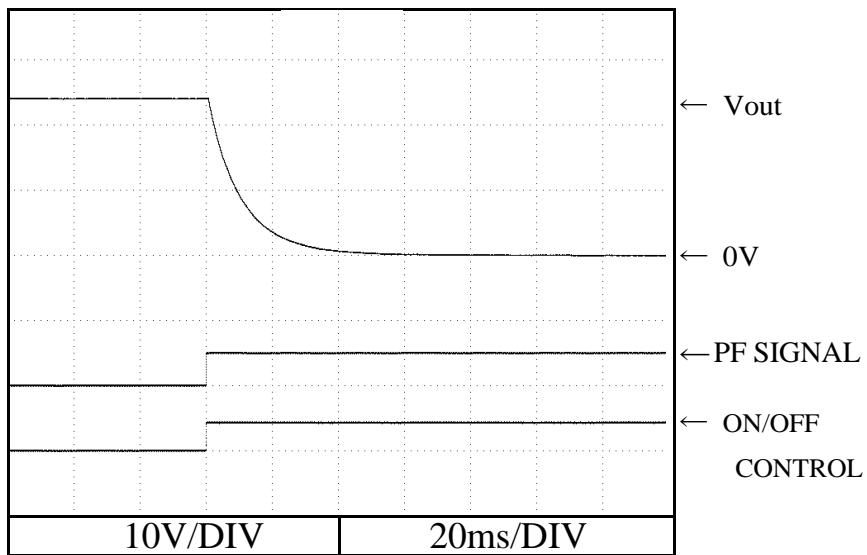


2.8 ON/OFFコントロール時出力立ち下がり特性

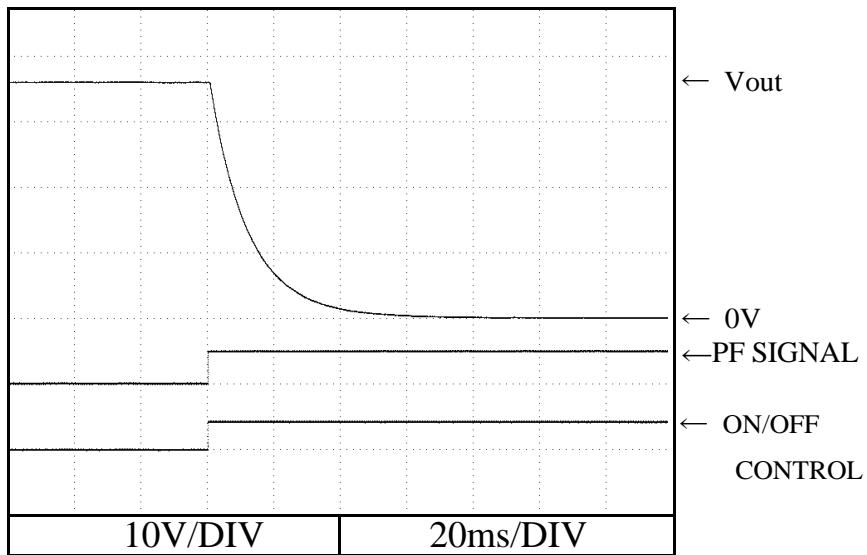
Output fall characteristics with ON/OFF Control

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

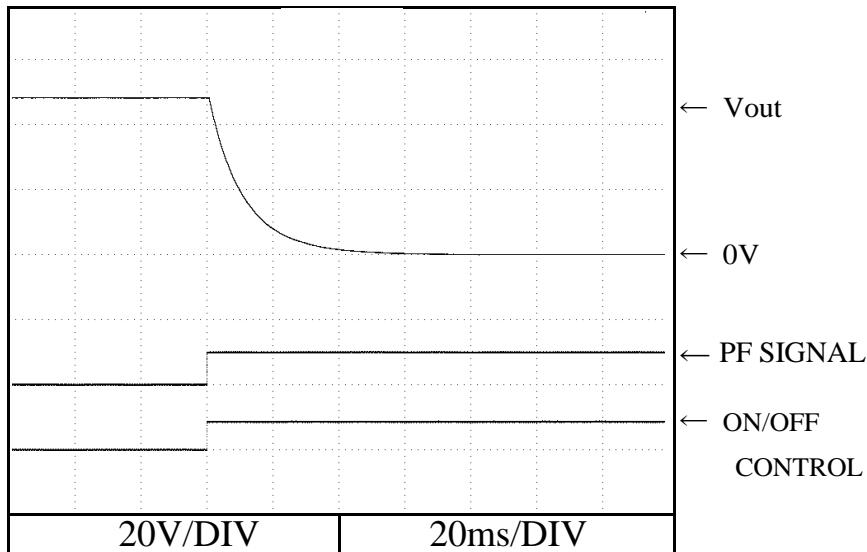
24V



36V



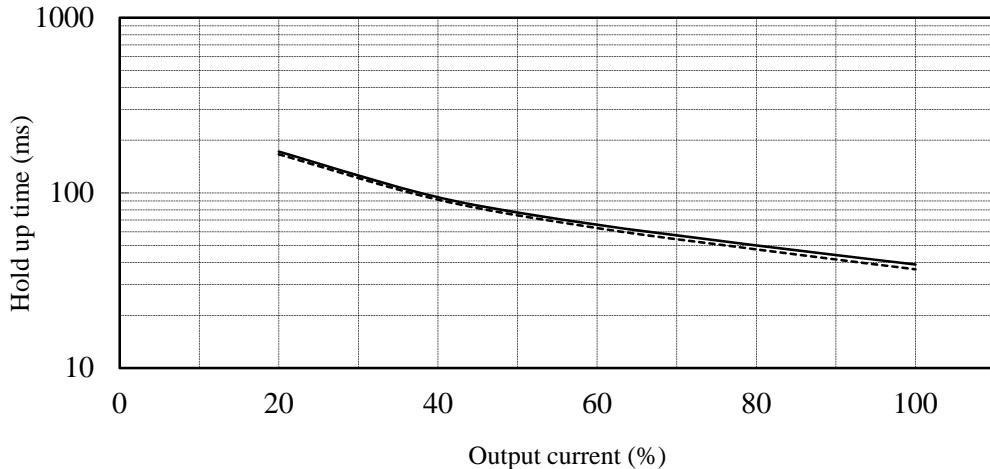
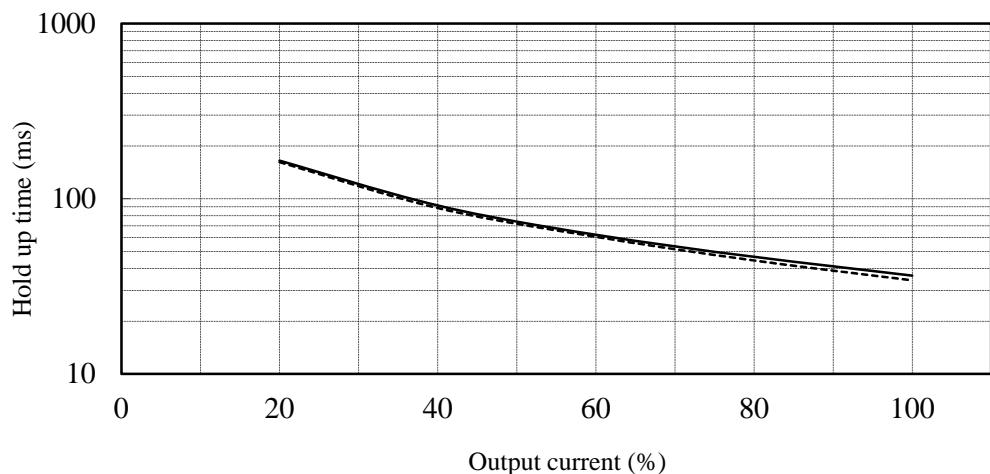
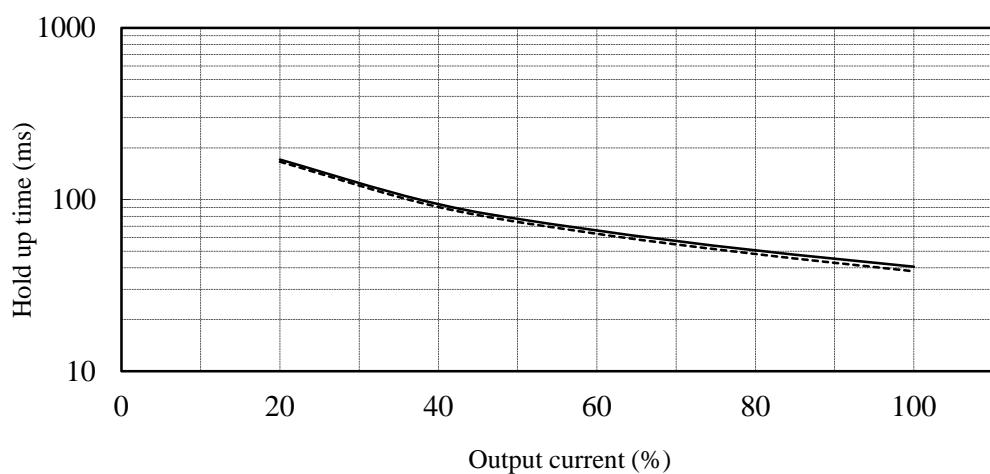
48V



2.9 出力保持時間特性

Hold up time characteristics

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

24V**36V****48V**

2.10 過渡応答（入力急変）特性

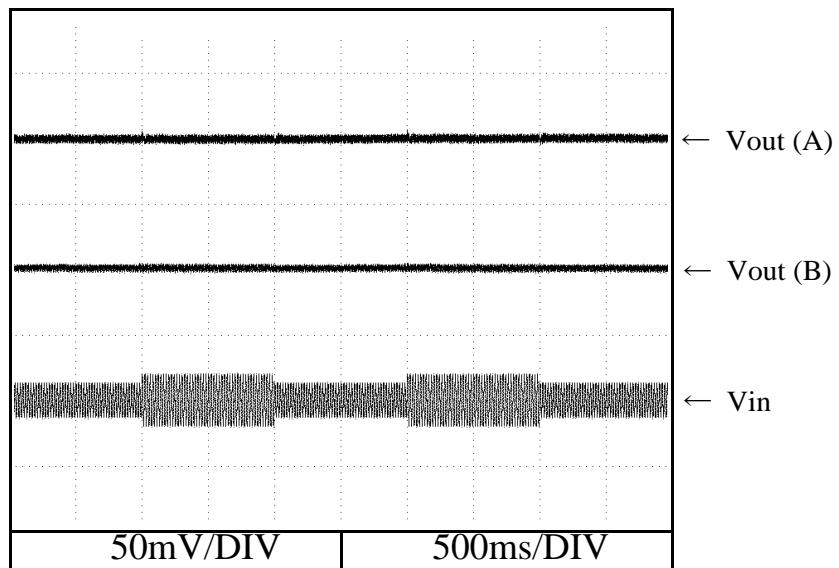
Dynamic line response characteristics

Conditions Vin : 85 VAC \longleftrightarrow 132VAC (A)170 VAC \longleftrightarrow 265VAC (B)

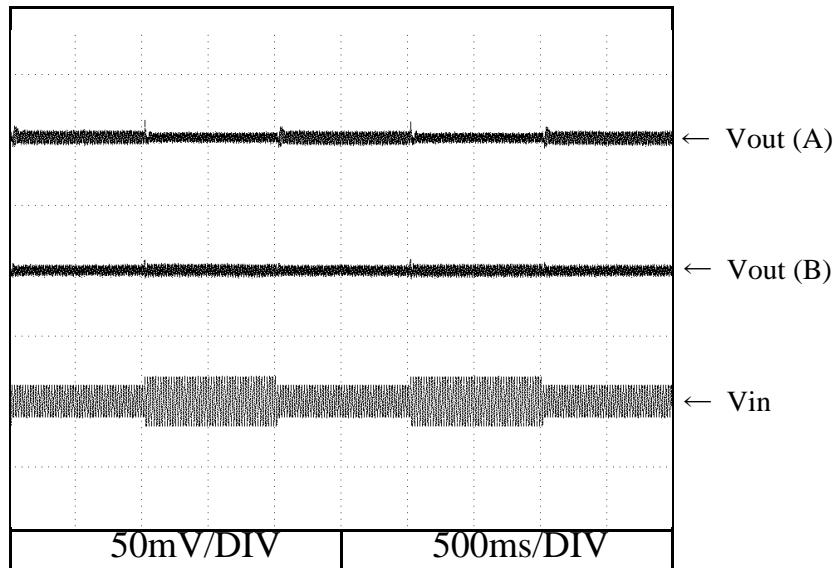
Iout : 100 %

Ta : 25 °C

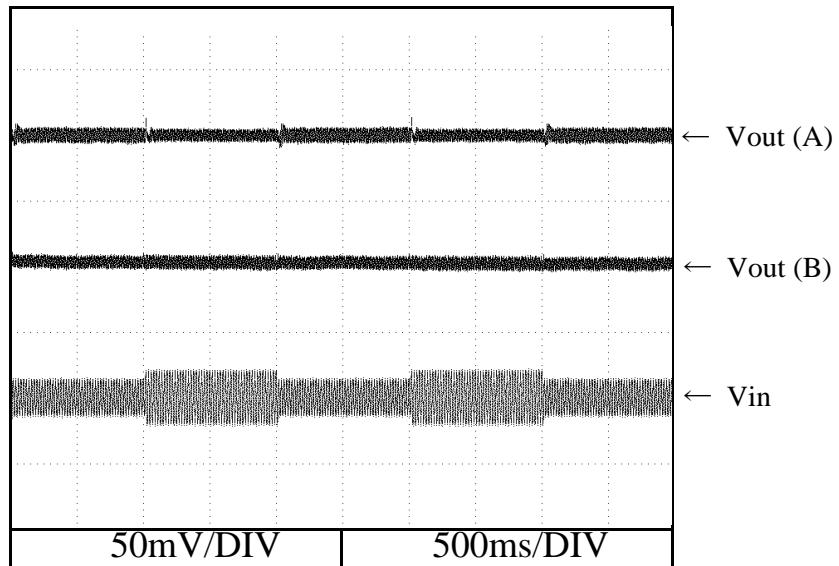
24V



36V



48V

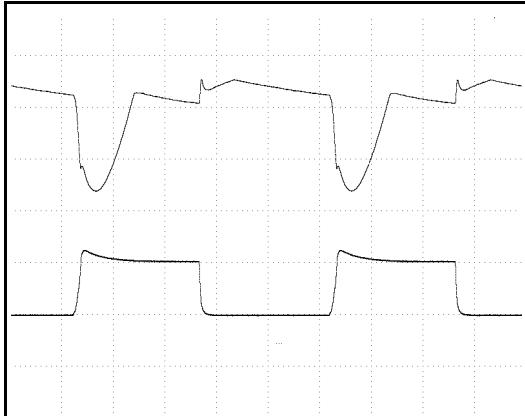


24V

f=100Hz

Vin:100VAC

Load current tr = tf = 50us
Iout 0% \longleftrightarrow Peak load



200mV/DIV

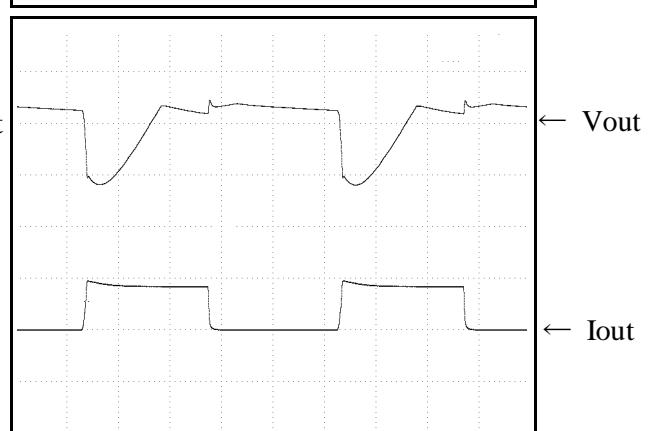
2ms/DIV

+0.42%

-1.48%

Vin:200VAC

Load current tr = tf = 50us
Iout 0% \longleftrightarrow Peak load



500mV/DIV

2ms/DIV

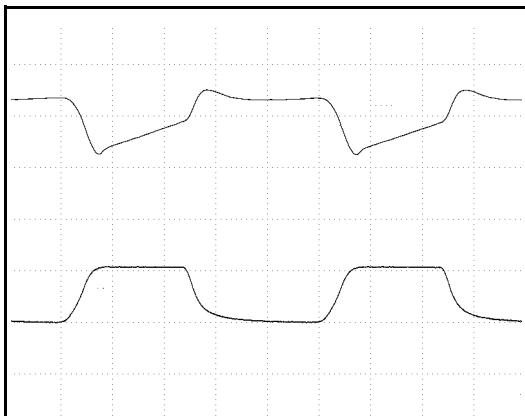
+0.70%

-2.37%

f=1kHz

Vin:100VAC

Load current tr = tf = 50us
Iout 0% \longleftrightarrow Peak load



200mV/DIV

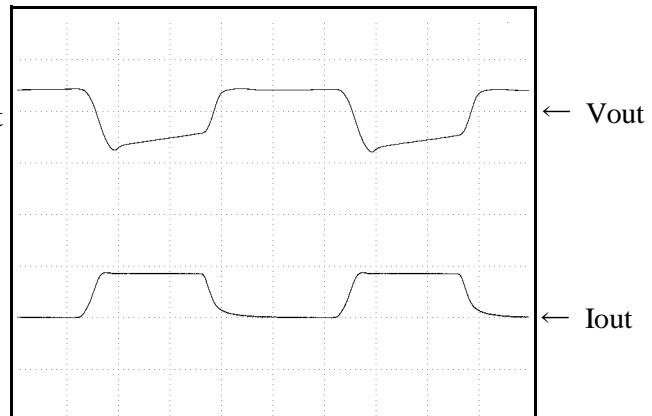
200 μ s/DIV

+0.39%

-0.64%

Vin:200VAC

Load current tr = tf = 50us
Iout 0% \longleftrightarrow Peak load



500mV/DIV

200 μ s/DIV

+0.87%

-1.40%

36V

f=100Hz

Vin:100VAC

Load current tr = tf = 50us
Iout 0% \longleftrightarrow Peak load



500mV/DIV

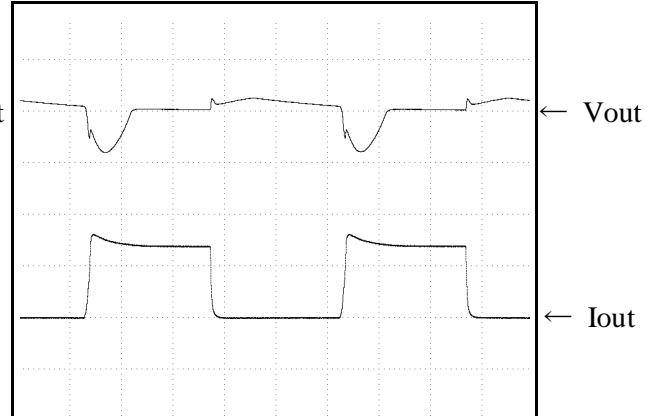
2ms/DIV

+0.41%

-1.22%

Vin:200VAC

Load current tr = tf = 50us
Iout 0% \longleftrightarrow Peak load



500mV/DIV

2ms/DIV

+0.36%

-1.12%

f=1kHz

Vin:100VAC

Load current tr = tf = 50us
Iout 0% \longleftrightarrow Peak load



200mV/DIV

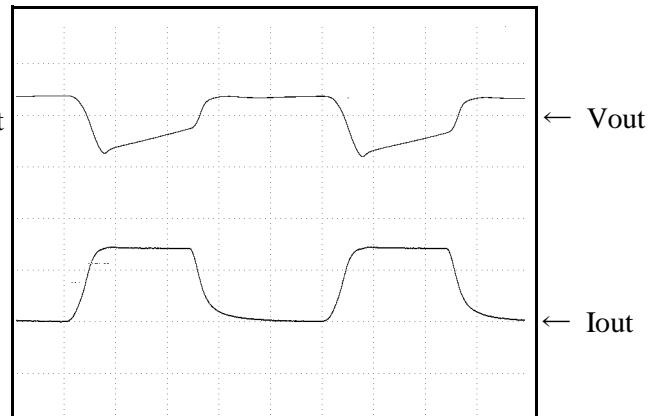
200 μ s/DIV

+0.25%

-0.40%

Vin:200VAC

Load current tr = tf = 50us
Iout 0% \longleftrightarrow Peak load



500mV/DIV

200 μ s/DIV

+0.73%

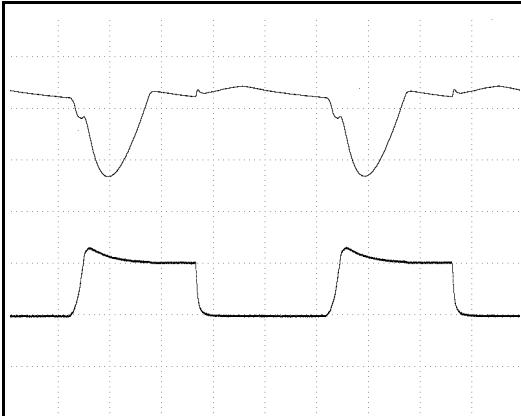
-1.21%

48V

f=100Hz

Vin:100VAC

Load current tr = tf = 50us
Iout 0% \longleftrightarrow Peak load



500mV/DIV

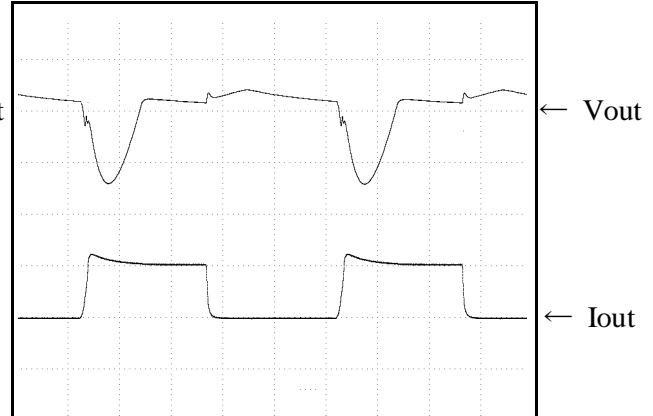
2ms/DIV

+0.45%

-1.40%

Vin:200VAC

Load current tr = tf = 50us
Iout 0% \longleftrightarrow Peak load



500mV/DIV

2ms/DIV

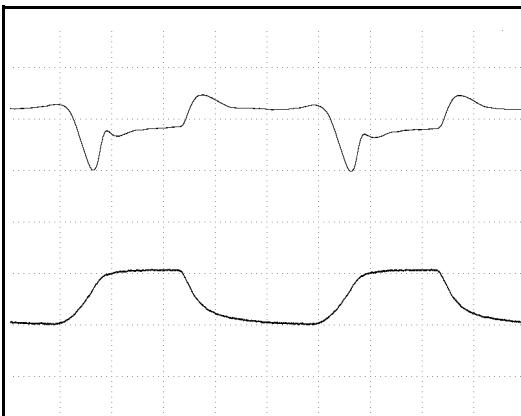
+0.40%

-1.53%

f=1kHz

Vin:100VAC

Load current tr = tf = 50us
Iout 0% \longleftrightarrow Peak load



100mV/DIV

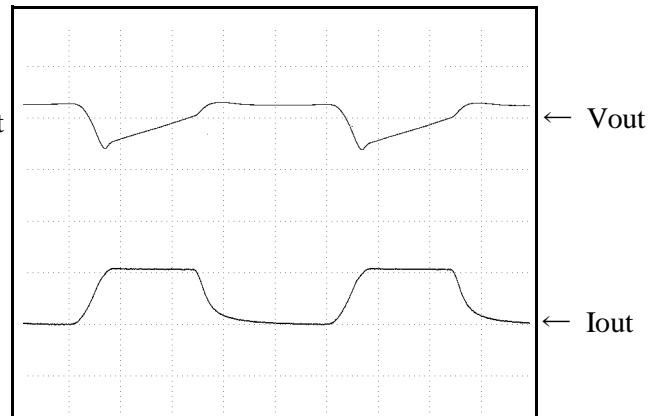
200 μ s/DIV

+0.10%

-0.21%

Vin:200VAC

Load current tr = tf = 50us
Iout 0% \longleftrightarrow Peak load



500mV/DIV

200 μ s/DIV

+0.34%

-0.71%

2.12 入力電圧瞬停特性

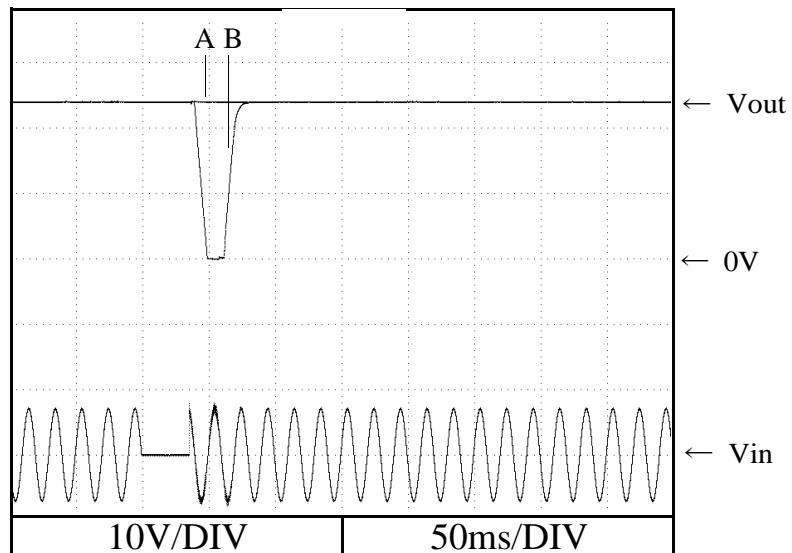
Response to brown out characteristics

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

24V

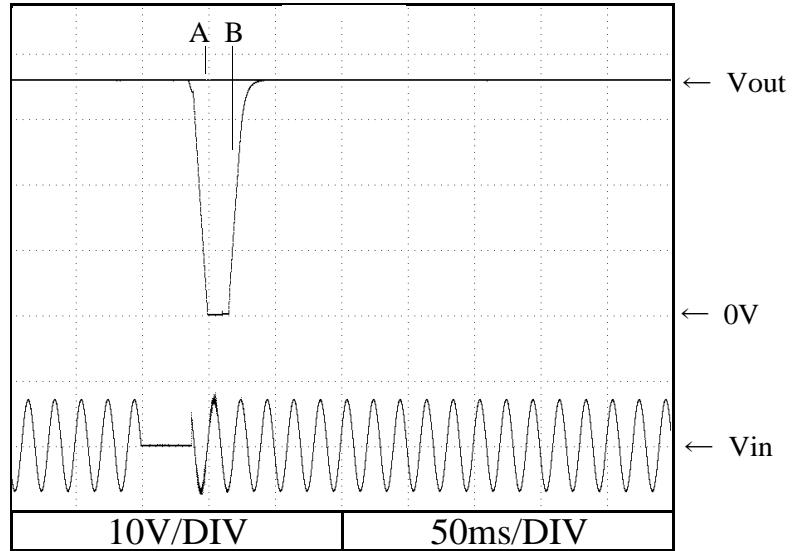
A = 36ms

B = 37ms

**36V**

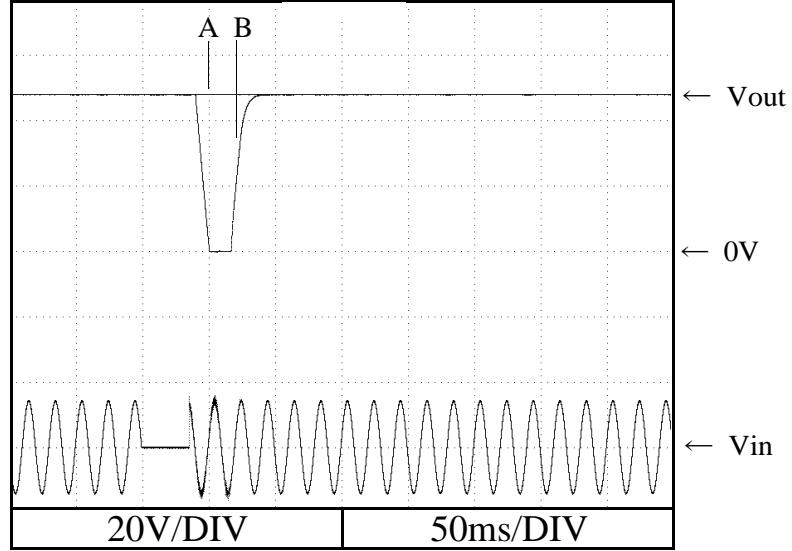
A = 36ms

B = 37ms

**48V**

A = 36ms

B = 37ms



2.12 入力電圧瞬停特性

Response to brown out characteristics

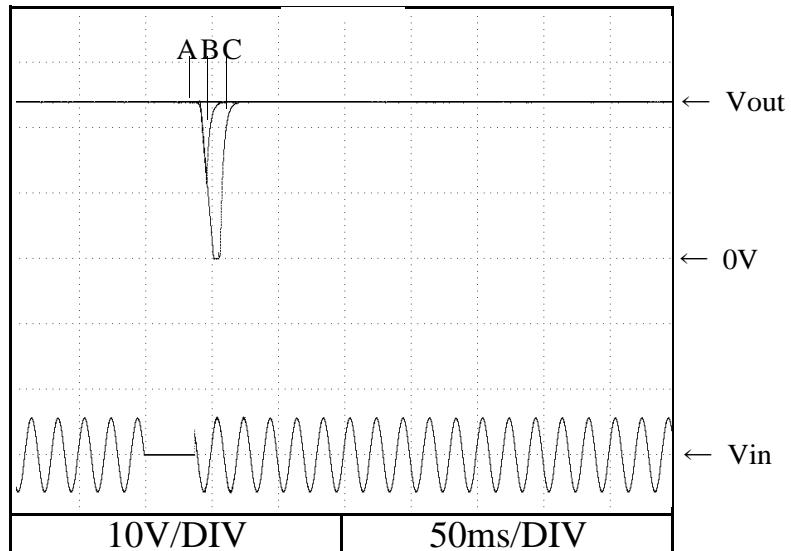
Conditions
Vin : 200 VAC
Iout : 100 %
Ta : 25 °C

24V

A = 38ms

B = 44ms

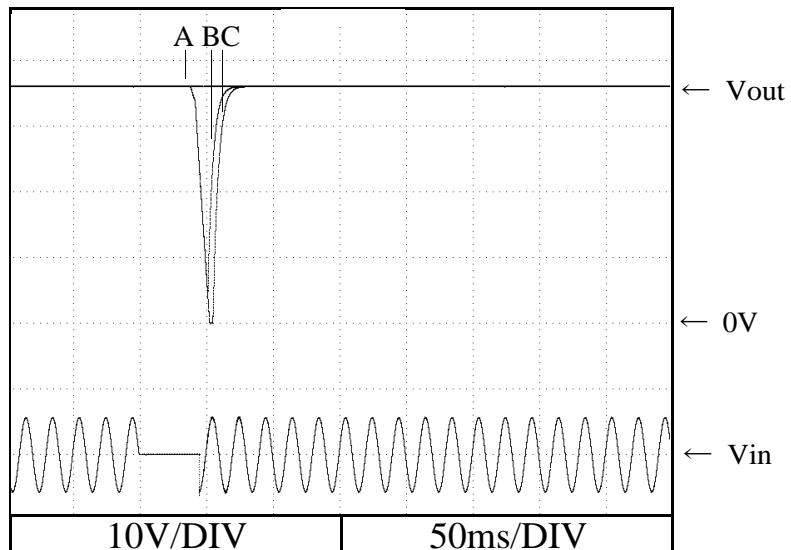
C = 45ms

**36V**

A = 38ms

B = 44ms

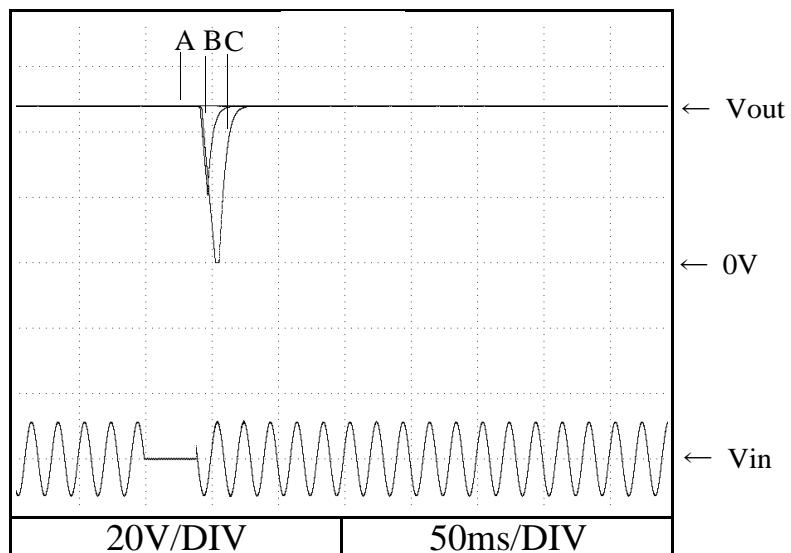
C = 45ms

**48V**

A = 39ms

B = 44ms

C = 45ms



2.13 入力サージ電流（突入電流）波形

Inrush current waveform

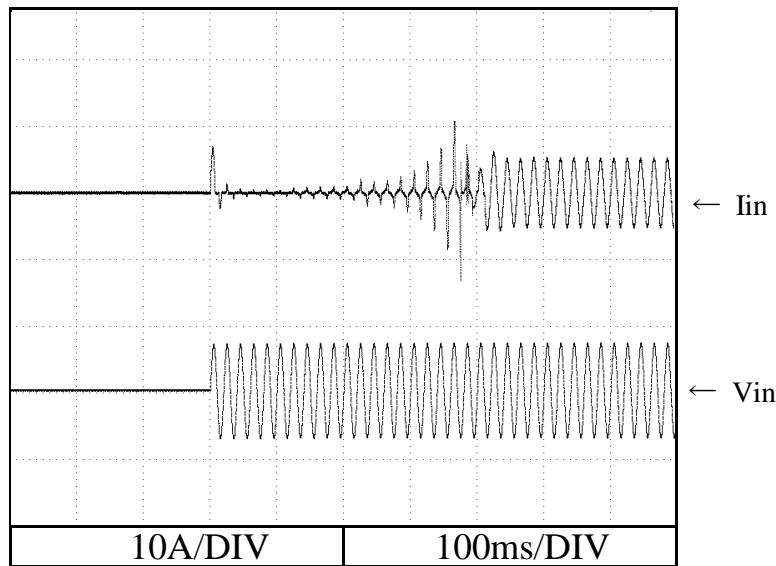
Conditions Vin : 100 VAC

Iout : 100 %

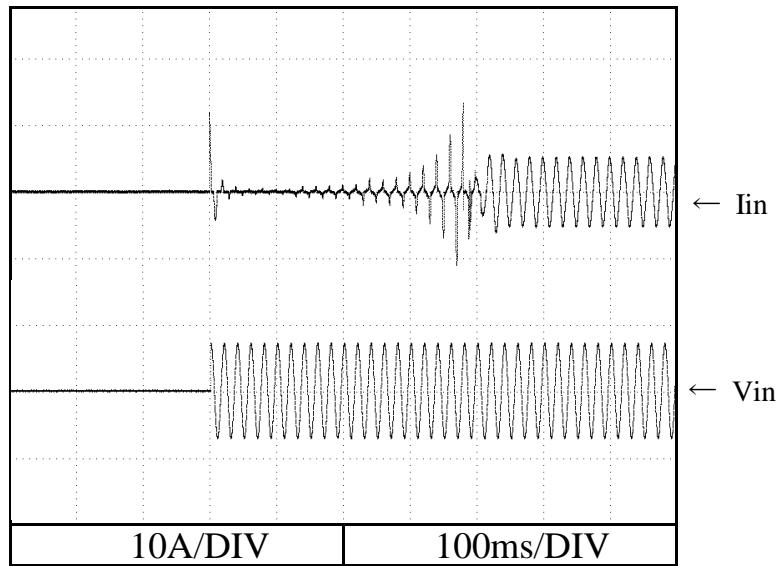
Ta : 25 °C

24V

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）波形

Inrush current waveform

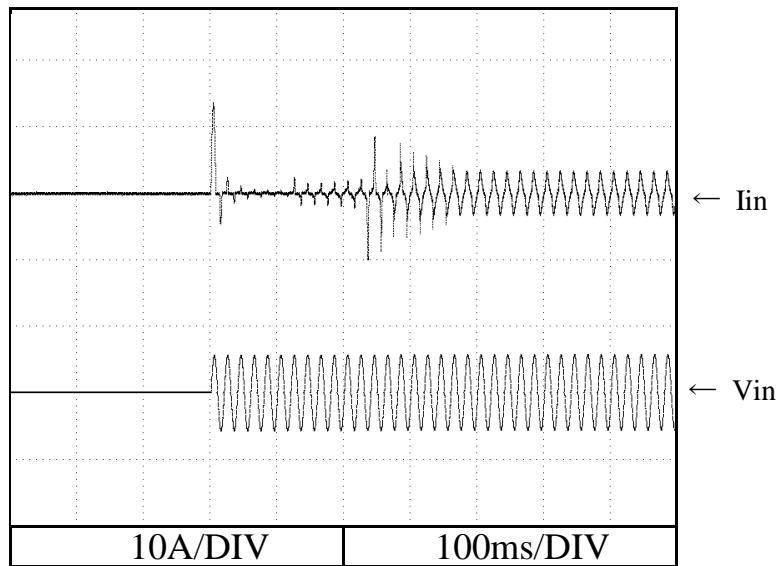
Conditions Vin : 200 VAC

Iout : 100 %

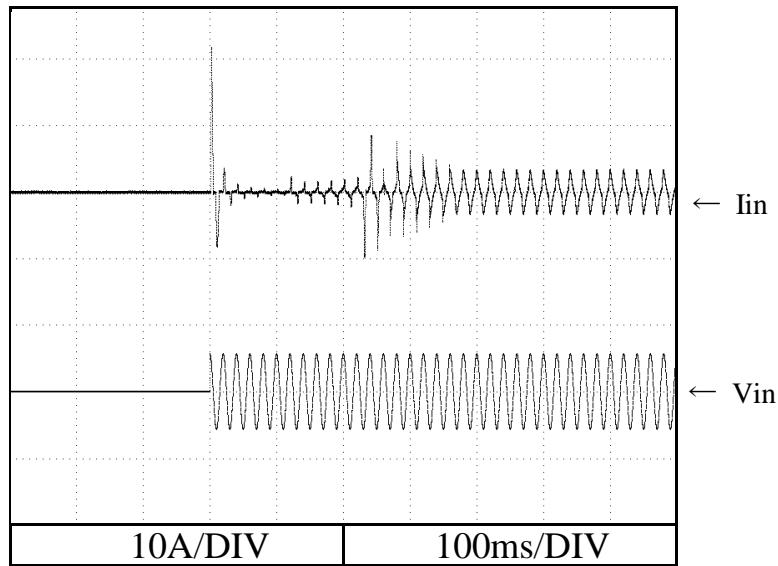
Ta : 25 °C

24V

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



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

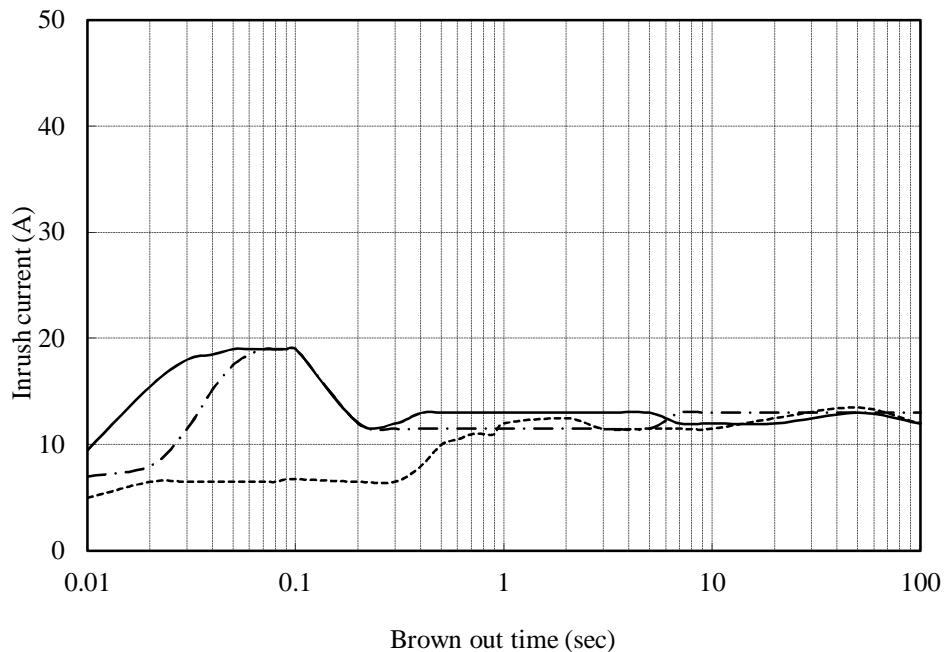


2.14 瞬停時突入電流特性
Inrush current characteristicsConditions Iout : 0 % -----
50 % - - -
100 % —————

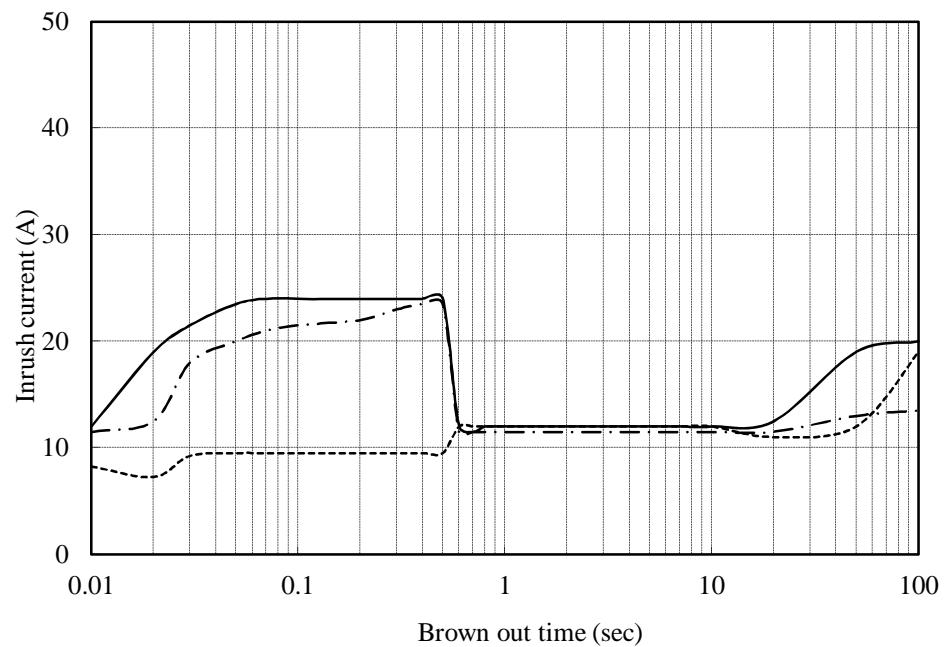
24V

Ta : 25 °C

Vin : 100 VAC



Vin : 200 VAC

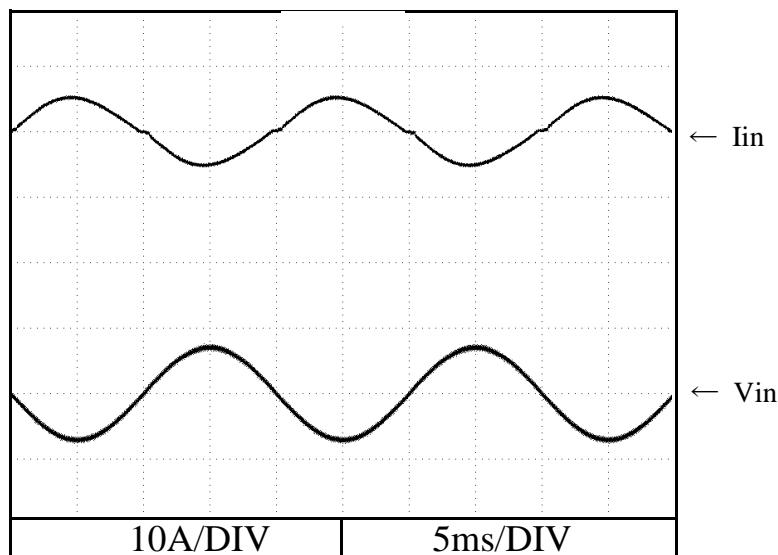
※ 上記値は、2次突入電流を含んだ値である。
Above data includes secondary inrush current

2.15 入力電流波形
Input current waveform

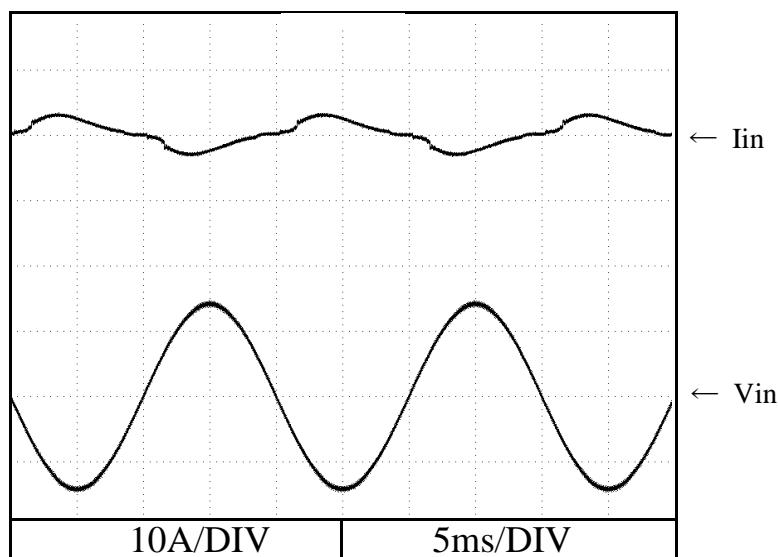
Conditions Iout : 100 %
Ta : 25 °C

24V

Vin : 100 VAC

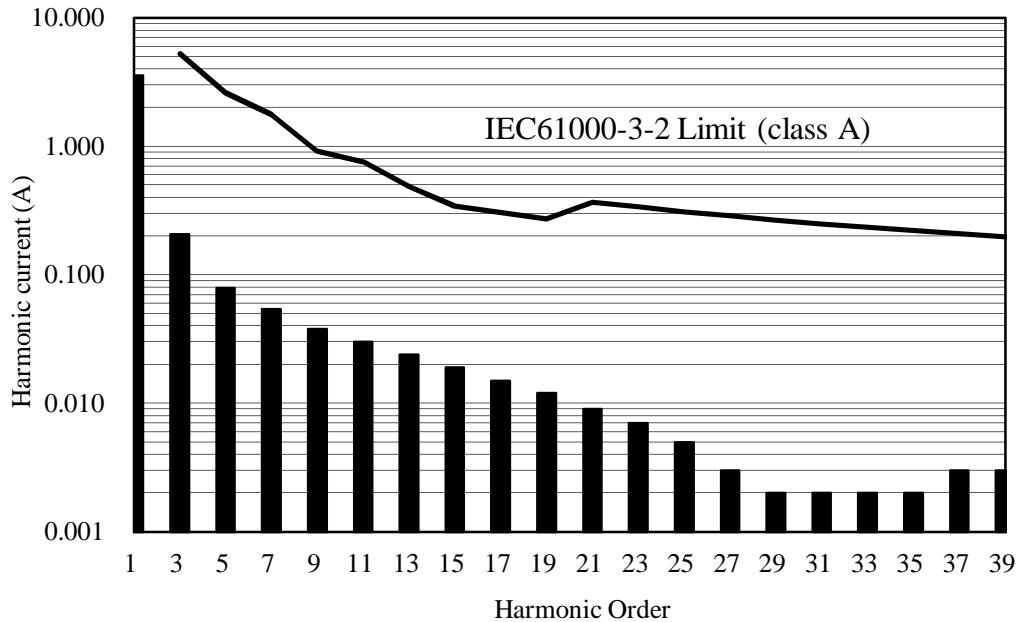
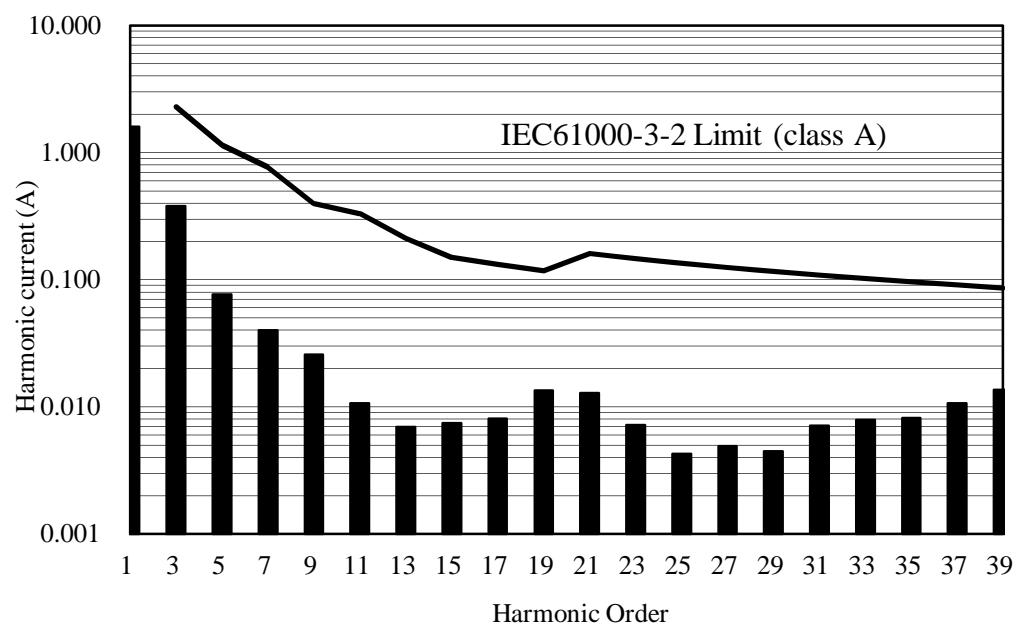


Vin : 200 VAC



2.16 高調波成分

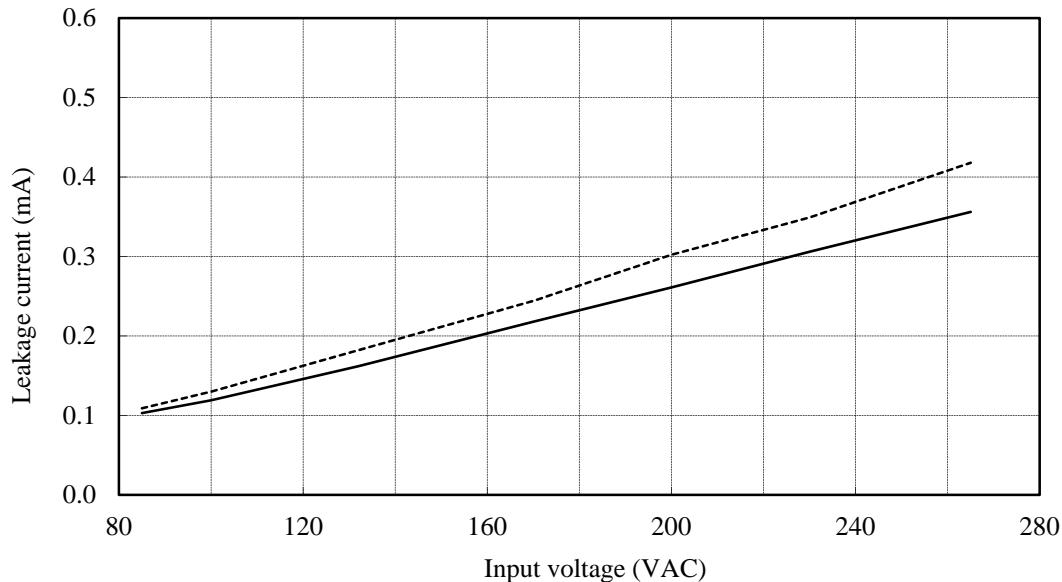
Input current harmonics

Conditions
Vin : 100 VAC
Iout : 100 %
Ta : 25 °C**24V**Conditions
Vin : 230 VAC
Iout : 100 %
Ta : 25 °C

2.17 リーク電流特性
Leakage current characteristics**24V**

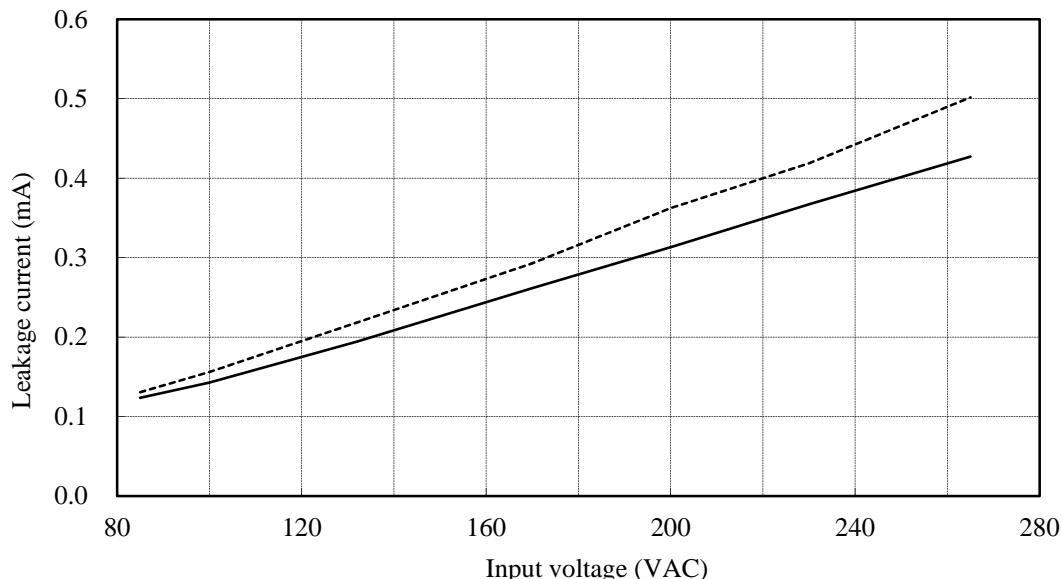
Conditions Iout : 0%
: 100%
Ta : 25°C
f : 50Hz

Equipment used : MODEL 3156 (HIOKI)



Conditions Iout : 0%
: 100%
Ta : 25°C
f : 60Hz

Equipment used : MODEL 3156 (HIOKI)

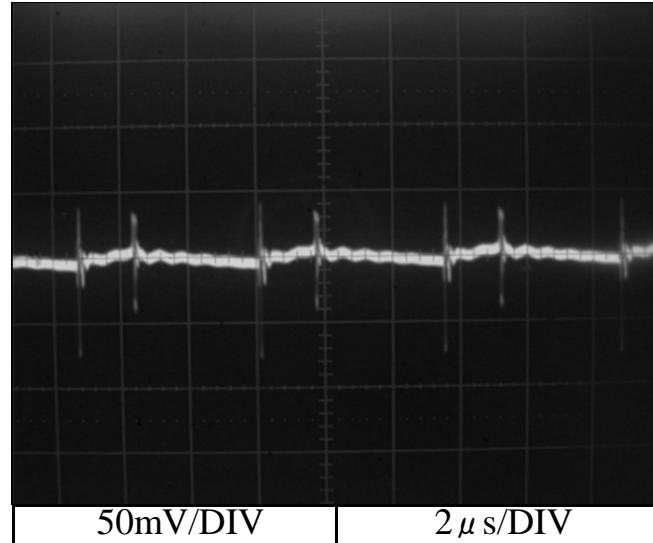


2.18 出力リップル、ノイズ波形
Output ripple and noise waveform

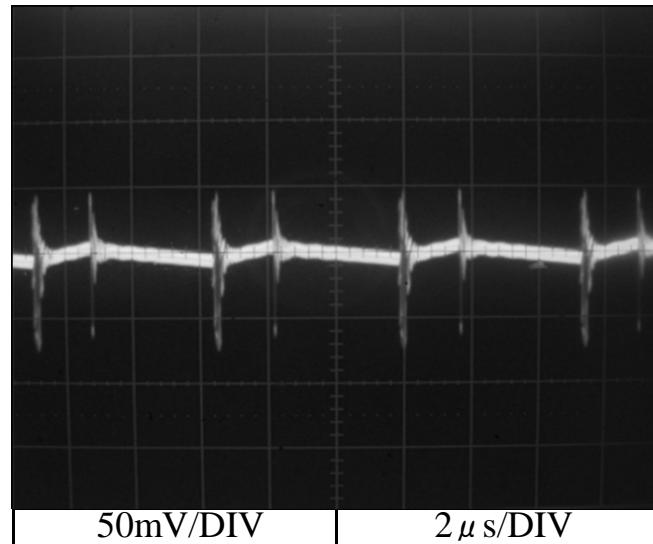
Conditions Vin : 200 VAC
Iout : 100 %
Ta : 25 °C

NORMAL MODE

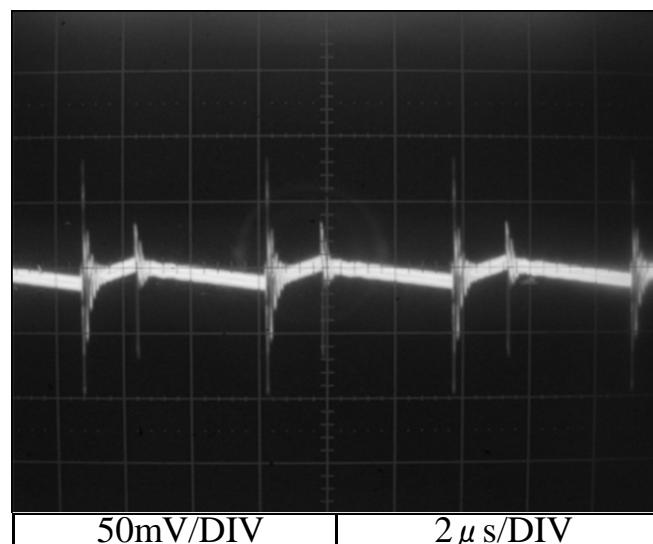
24V



36V



48V

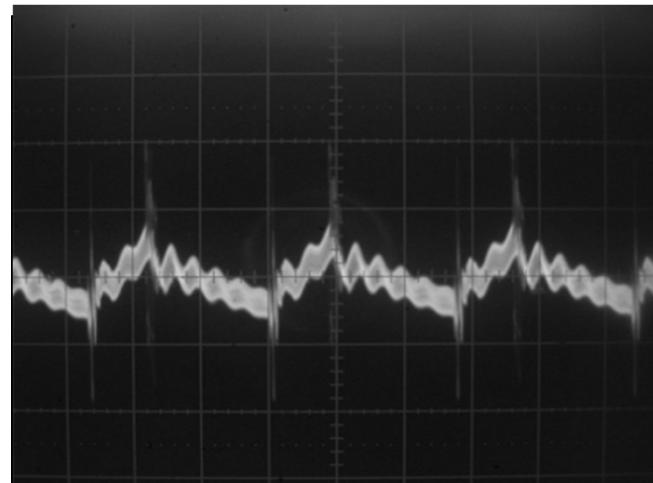


2.18 出力リップル、ノイズ波形
Output ripple and noise waveform

Conditions
Vin : 200 VAC
Iout : Peak load
Ta : 25 °C

NORMAL MODE

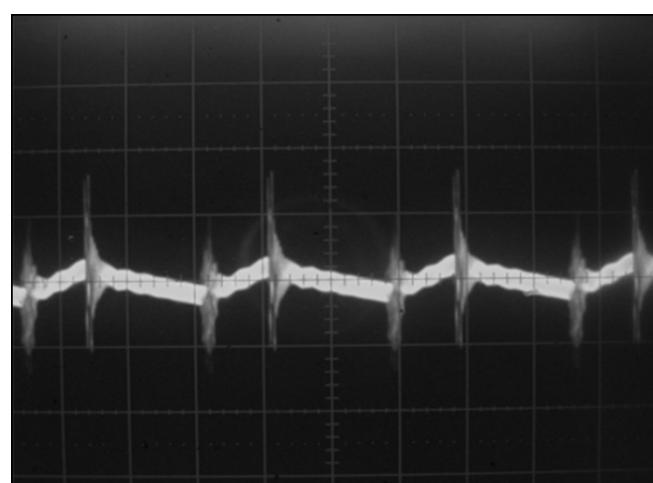
24V



50mV/DIV

2 μ s/DIV

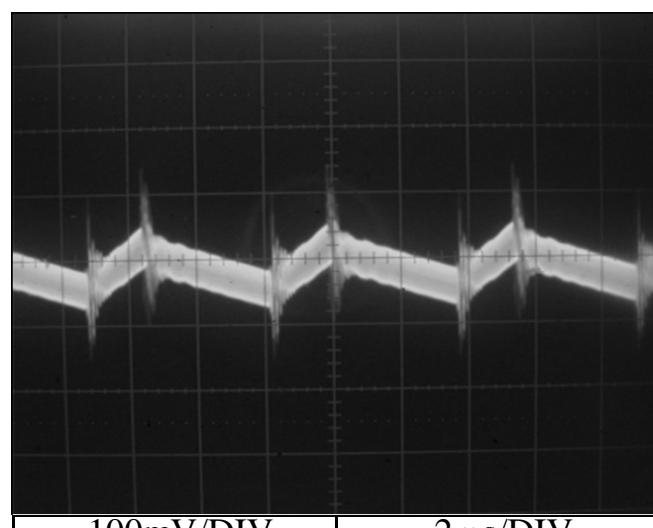
36V



100mV/DIV

2 μ s/DIV

48V



100mV/DIV

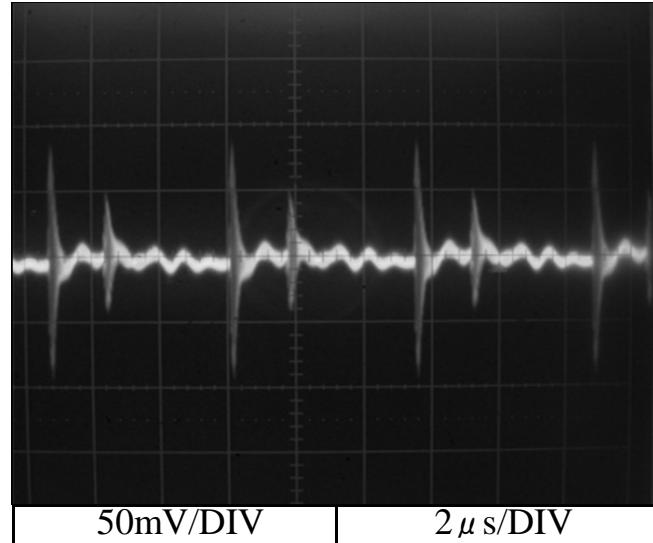
2 μ s/DIV

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

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

NORMAL + COMMON MODE

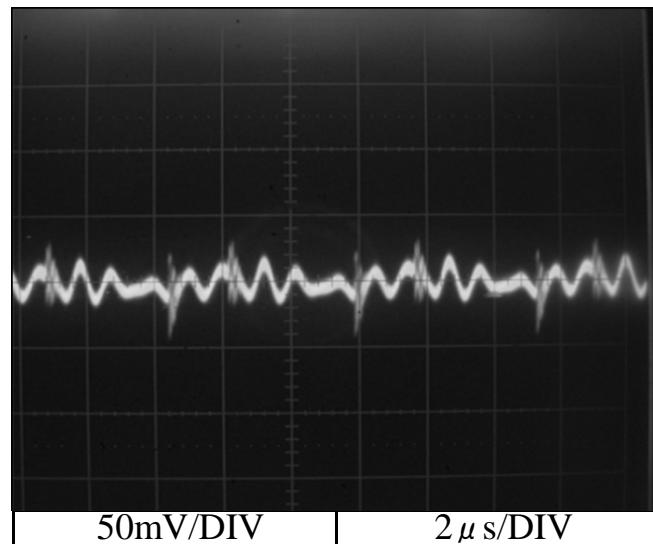
24V



50mV/DIV

2 μ s/DIV

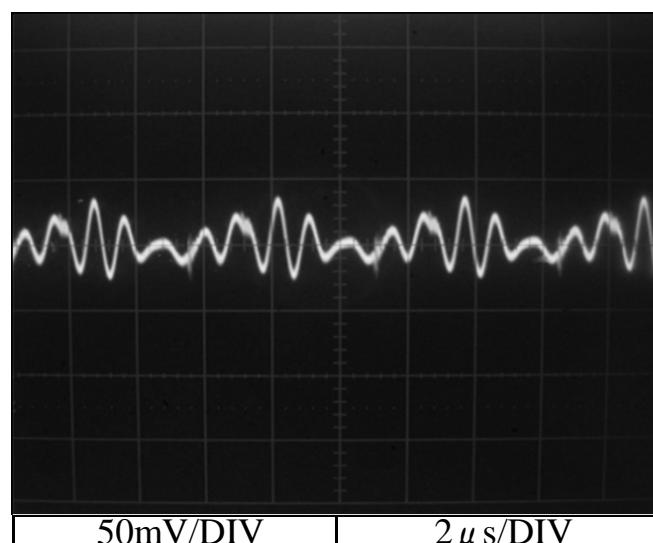
36V



50mV/DIV

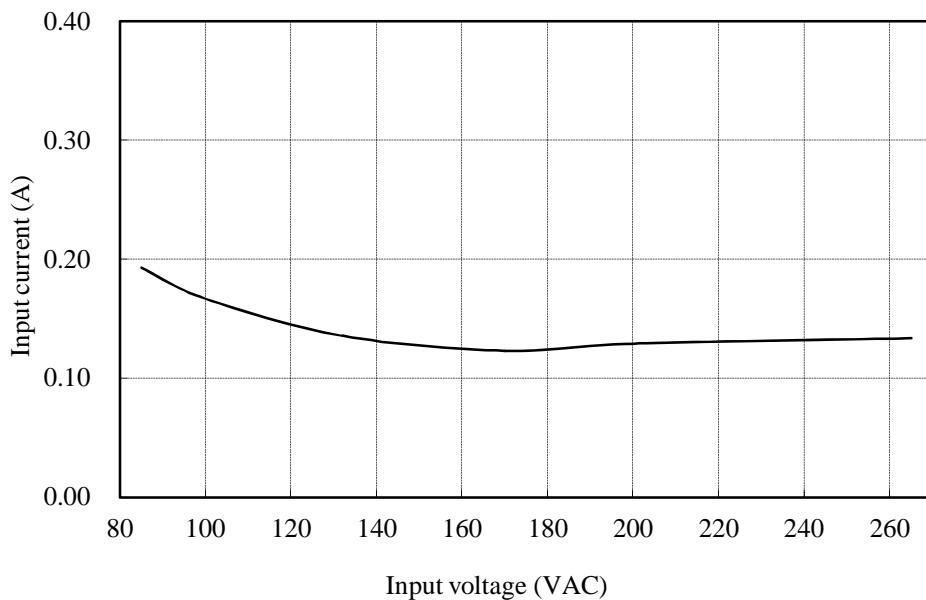
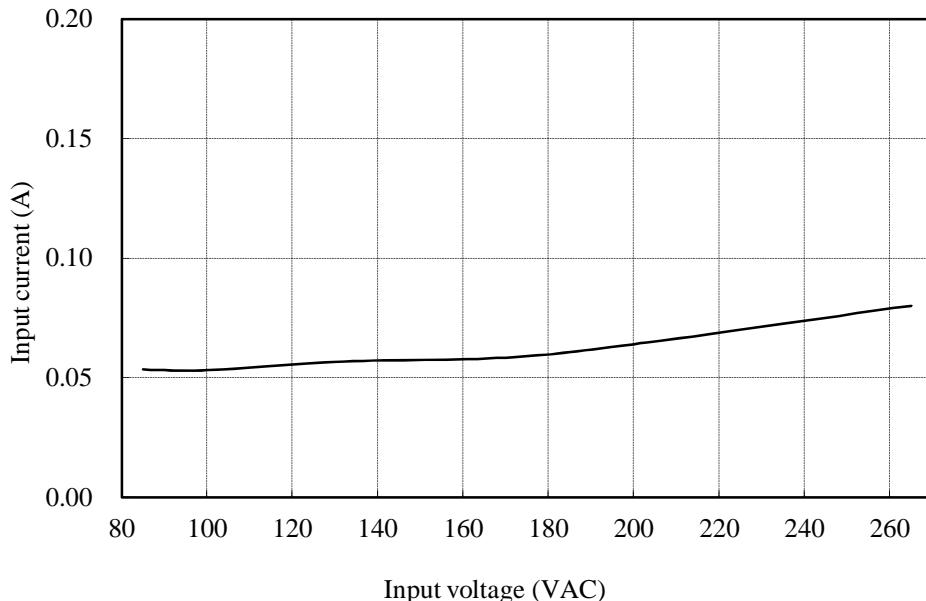
2 μ s/DIV

48V



50mV/DIV

2 μ s/DIV

24V**I_o = 0%****Remote control OFF**

2.20 E M I 特性

Electro-Magnetic Interference characteristics

Conditions Vin : 230VAC

Iout : 100%

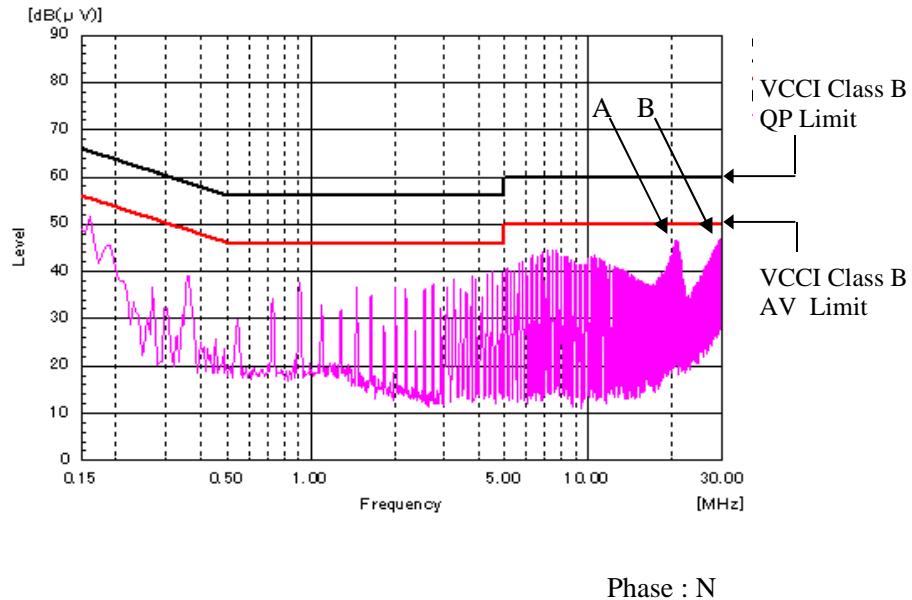
雜音端子電圧

Conducted Emission

24V

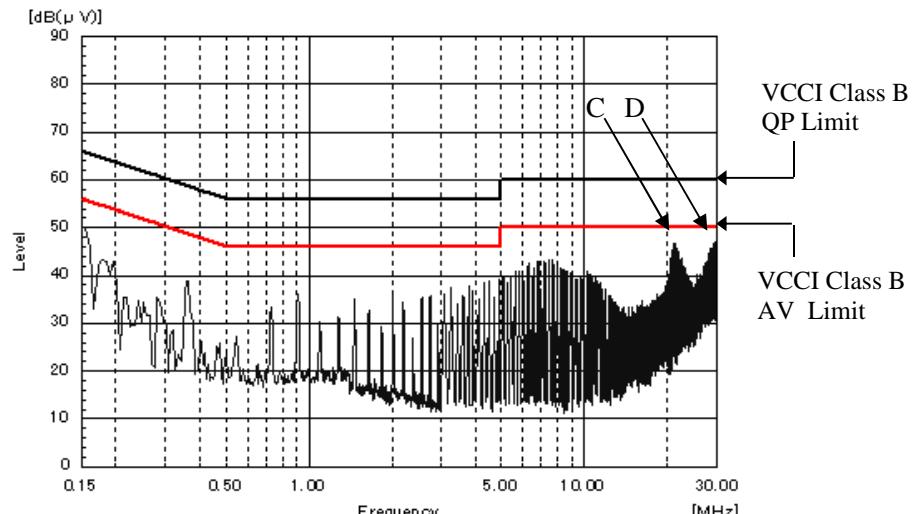
Point A (21MHz)		
Ref. Data	Limit (dBuV)	Measure (dBuV)
QP	60.0	44.7
AV	50.0	43.0

Point B (29MHz)		
Ref. Data	Limit (dBuV)	Measure (dBuV)
QP	60.0	45.0
AV	50.0	43.7



Point C (21MHz)		
Ref. Data	Limit (dBuV)	Measure (dBuV)
QP	60.0	44.7
AV	50.0	43.3

Point D (29MHz)		
Ref. Data	Limit (dBuV)	Measure (dBuV)
QP	60.0	45.4
AV	50.0	43.5



EN55011-B,EN55032-B,FCC-Bの限界値はVCCI class Bの限界値と同じ
Limit of EN55011-B,EN55032-B,FCC-B are same as its VCCI class B.

2.20 E M I 特性

Electro-Magnetic Interference characteristics

Conditions Vin : 230VAC

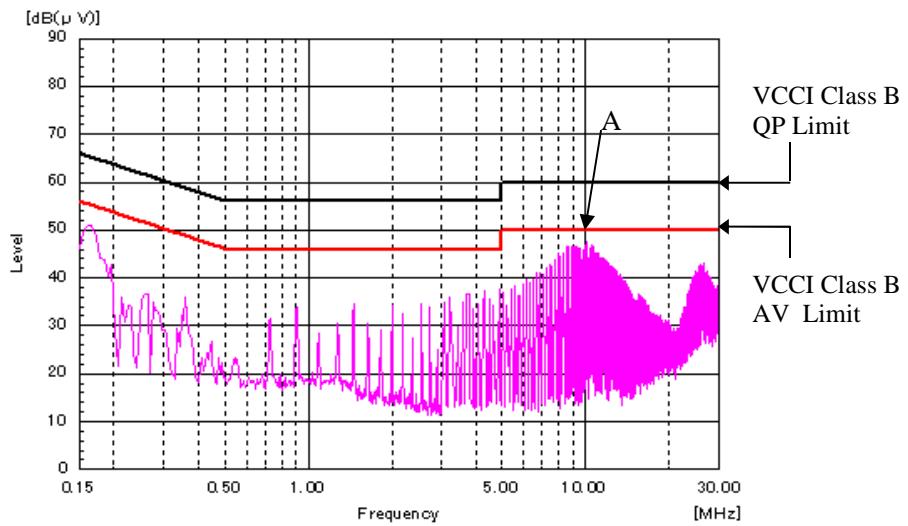
Iout : 100%

雜音端子電圧

Conducted Emission

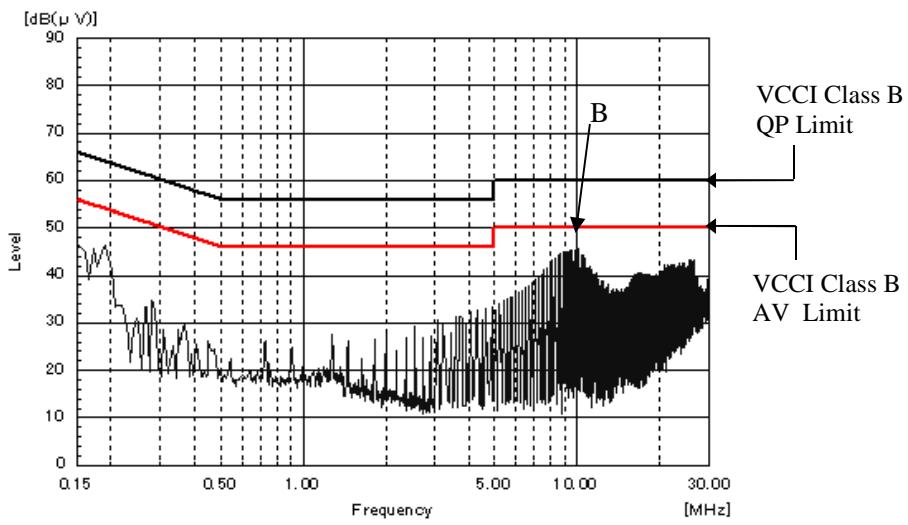
36V

Point A (10MHz)		
Ref. Data	Limit (dBuV)	Measure (dBuV)
QP	60.0	46.8
AV	50.0	46.3



Phase : N

Point B (10MHz)		
Ref. Data	Limit (dBuV)	Measure (dBuV)
QP	60.0	45.1
AV	50.0	45.1



Phase : L

EN55011-B,EN55032-B,FCC-Bの限界値はVCCI class Bの限界値と同じ
Limit of EN55011-B,EN55032-B,FCC-B are same as its VCCI class B.

2.20 E M I 特性

Electro-Magnetic Interference characteristics

Conditions Vin : 230VAC

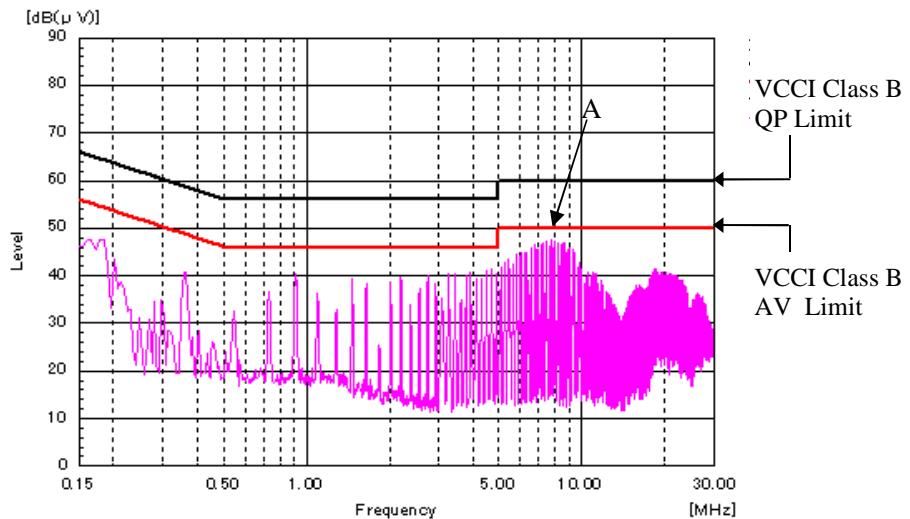
Iout : 100%

雜音端子電圧

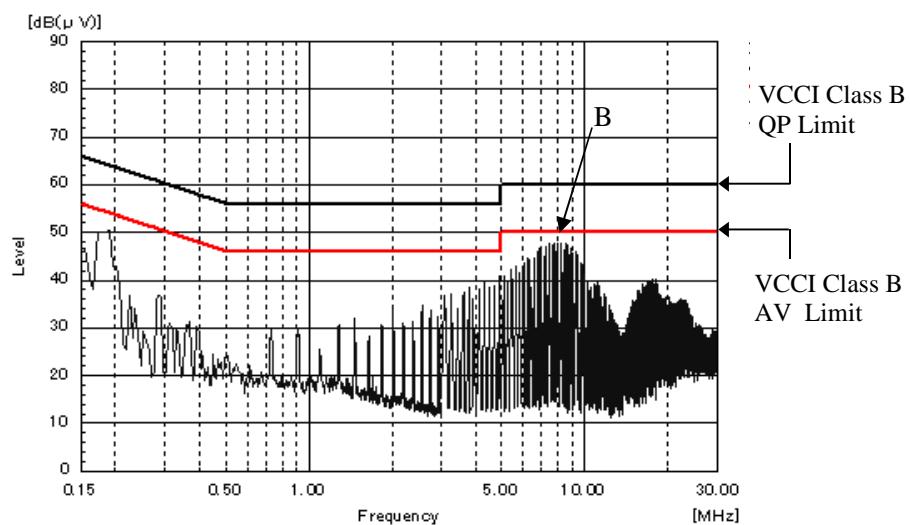
Conducted Emission

48V

Point A (8MHz)		
Ref. Data	Limit (dBuV)	Measure (dBuV)
QP	60.0	46.3
AV	50.0	45.9



Point B (8MHz)		
Ref. Data	Limit (dBuV)	Measure (dBuV)
QP	60.0	47.0
AV	50.0	46.4



EN55011-B,EN55032-B,FCC-Bの限界値はVCCI class Bの限界値と同じ
Limit of EN55011-B,EN55032-B,FCC-B are same as its VCCI class B.

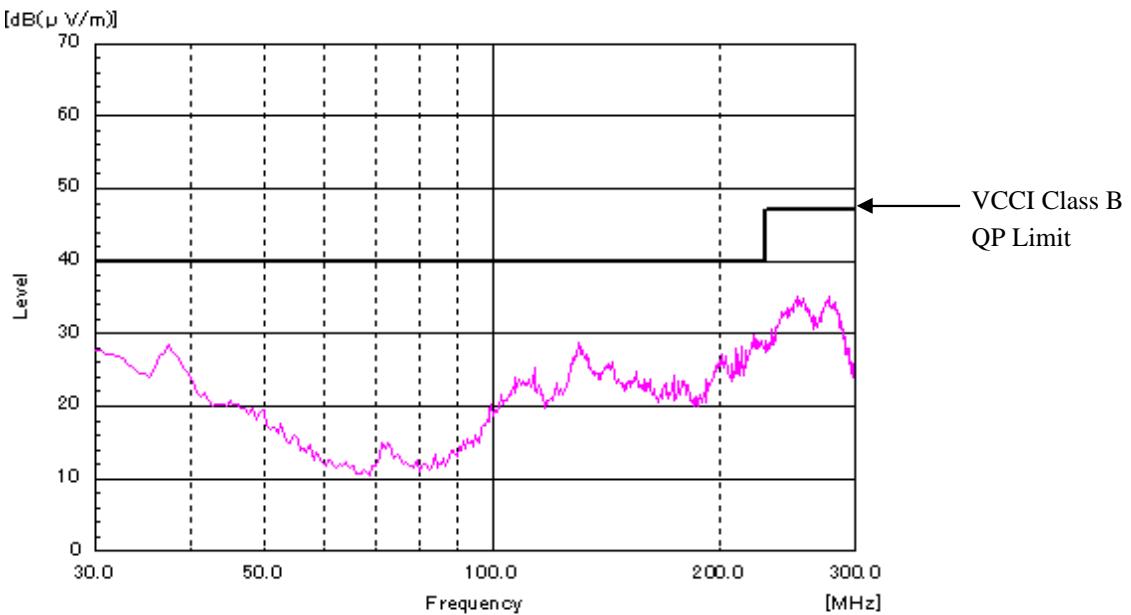
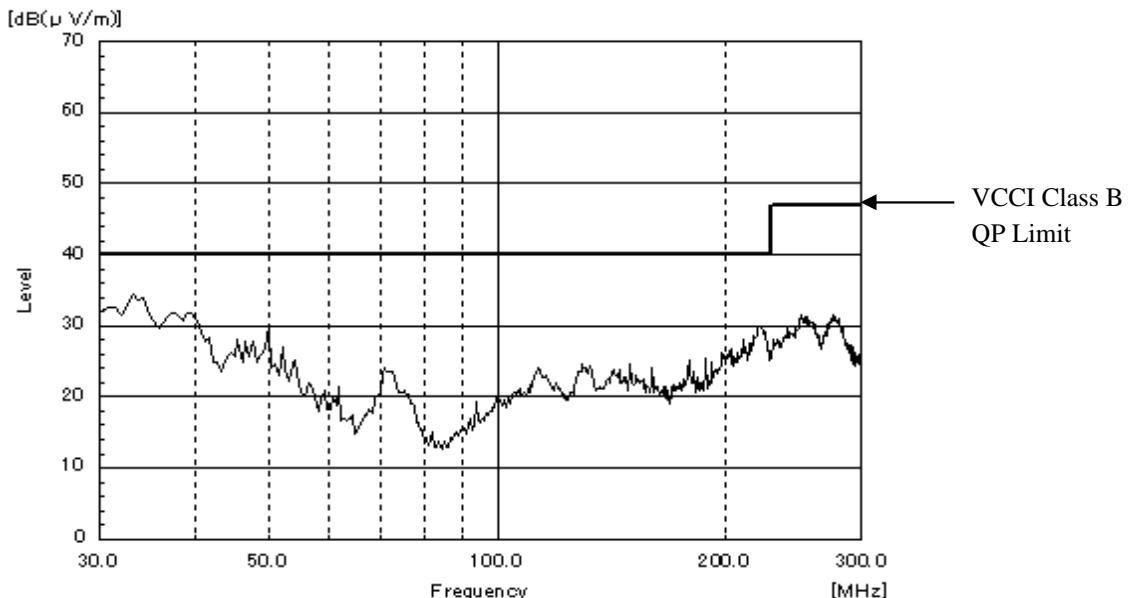
2.20 EM I 特性

Electro-Magnetic Interference characteristics

Conditions Vin : 100VAC
Iout : 100%

雜音電界強度

Radiated Emission

24V**HORIZONTAL****VERTICAL**

EN55011-B, EN55032-B, FCC-Bの限界値はVCCI class Bの限界値と同じ
Limit of EN55011-B, EN55032-B, FCC-B are same as its VCCI class B.

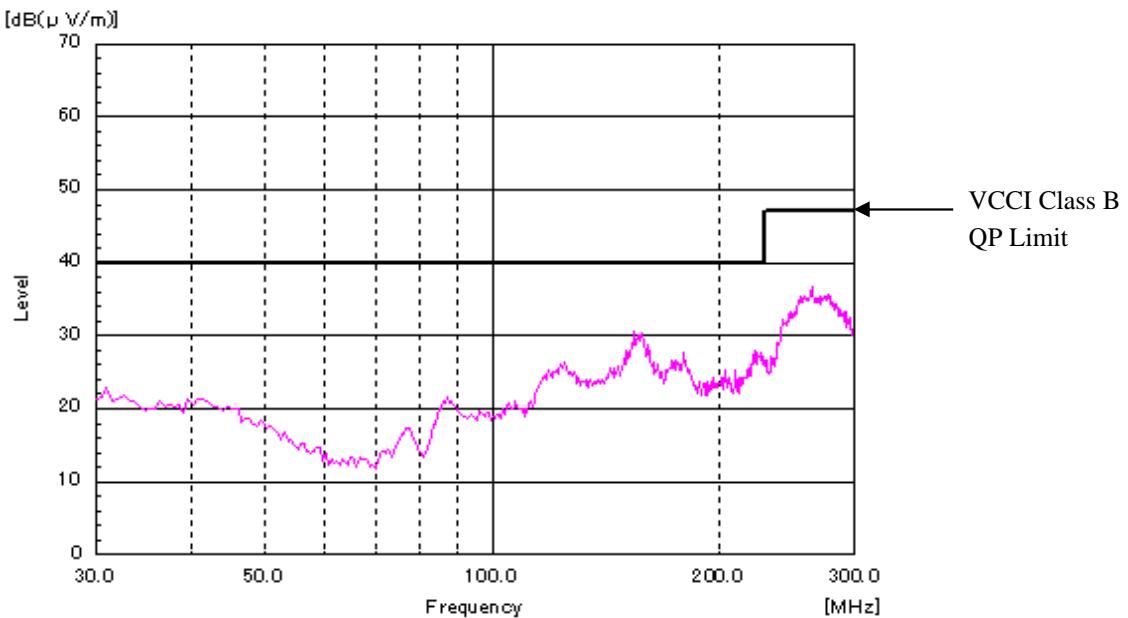
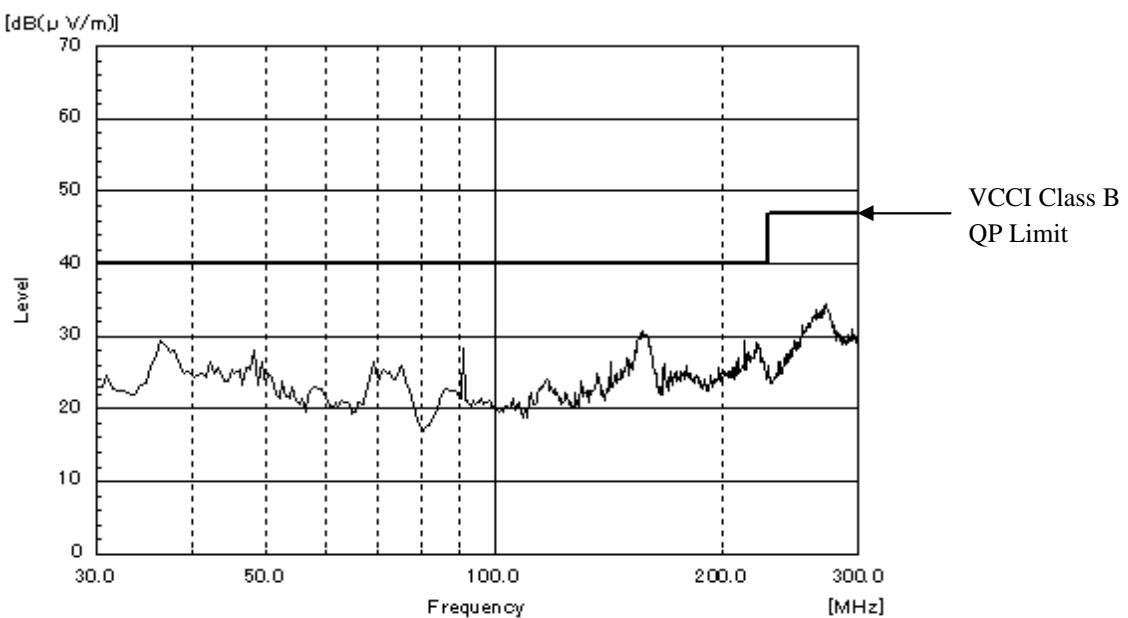
2.20 EM I 特性

Electro-Magnetic Interference characteristics

Conditions Vin : 100VAC
Iout : 100%

雜音電界強度

Radiated Emission

36V**HORIZONTAL****VERTICAL**

EN55011-B, EN55032-B, FCC-Bの限界値はVCCI class Bの限界値と同じ
Limit of EN55011-B, EN55032-B, FCC-B are same as its VCCI class B.

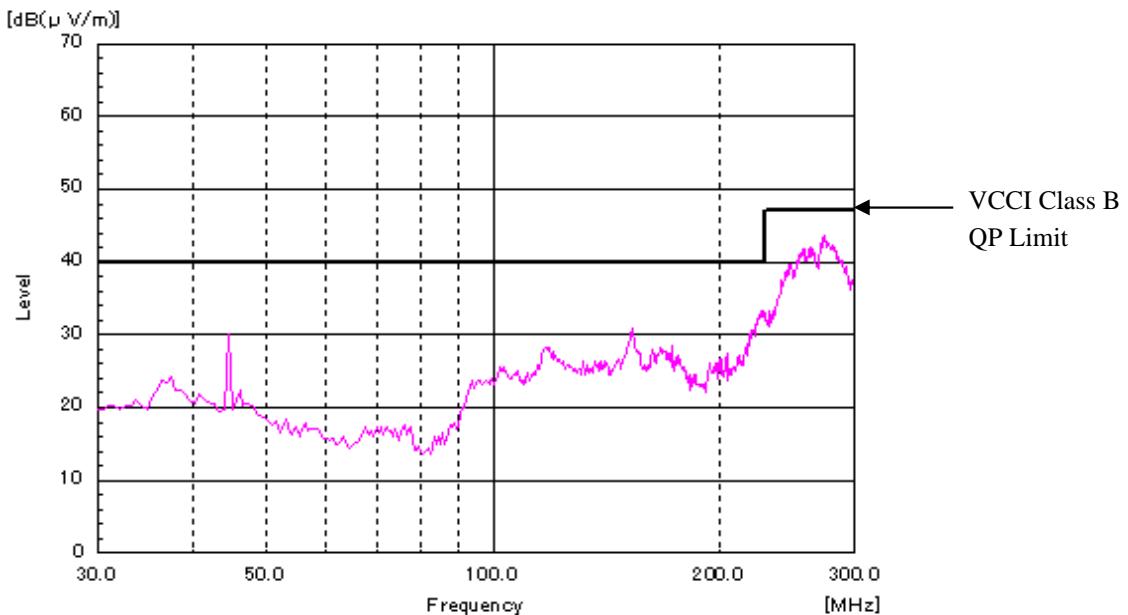
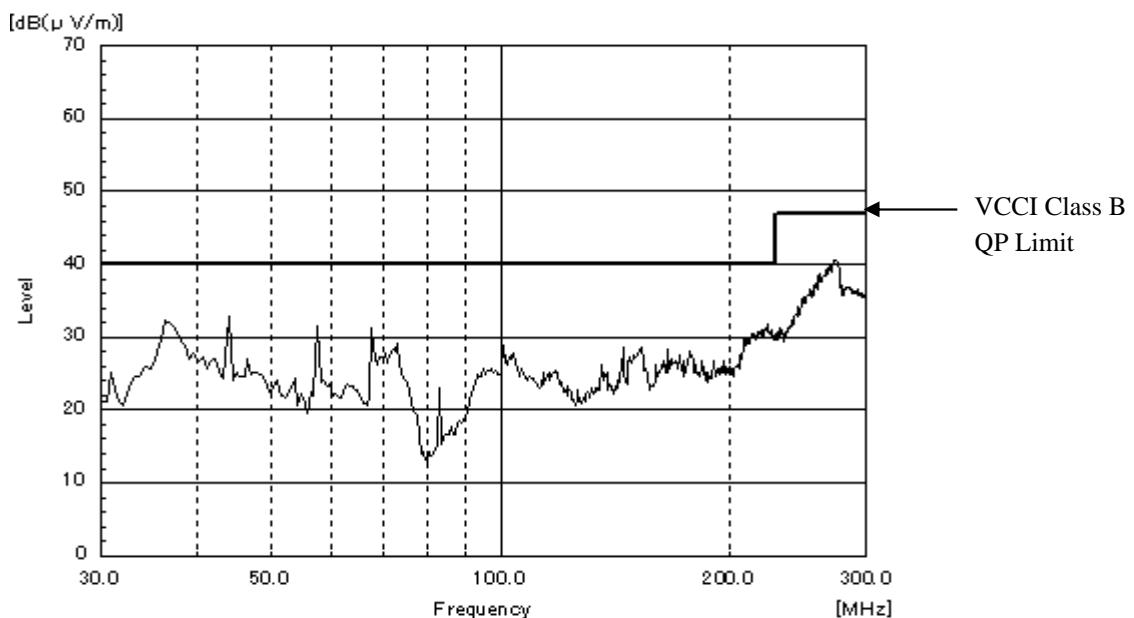
2.20 EMI 特性

Electro-Magnetic Interference characteristics

Conditions Vin : 100VAC
Iout : 100%

雜音電界強度

Radiated Emission

48V**HORIZONTAL****VERTICAL**

EN55011-B, EN55032-B, FCC-Bの限界値はVCCI class Bの限界値と同じ
Limit of EN55011-B, EN55032-B, FCC-B are same as its VCCI class B.