

RWS1000B

EVALUATION DATA

型式データ

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----- RWS1000B -----

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* 準標準品RWS1000B-*/R, /RFO にて対応

For option model RWS1000B-*/R, /RFO

使用記号 Terminology used

定義 Definition

Vin	.....	入力電圧	Input voltage
Vout	.....	出力電圧	Output voltage
Iin	.....	入力電流	Input current
Iout	.....	出力電流	Output current
Ta	.....	周囲温度	Ambient temperature
f	.....	周波数	Frequency
Vstb	.....	スタンバイ電圧	Standby voltage
Istb	.....	スタンバイ電流	Standby current

※ 当社測定条件における結果であり、参考値としてお考え願います。

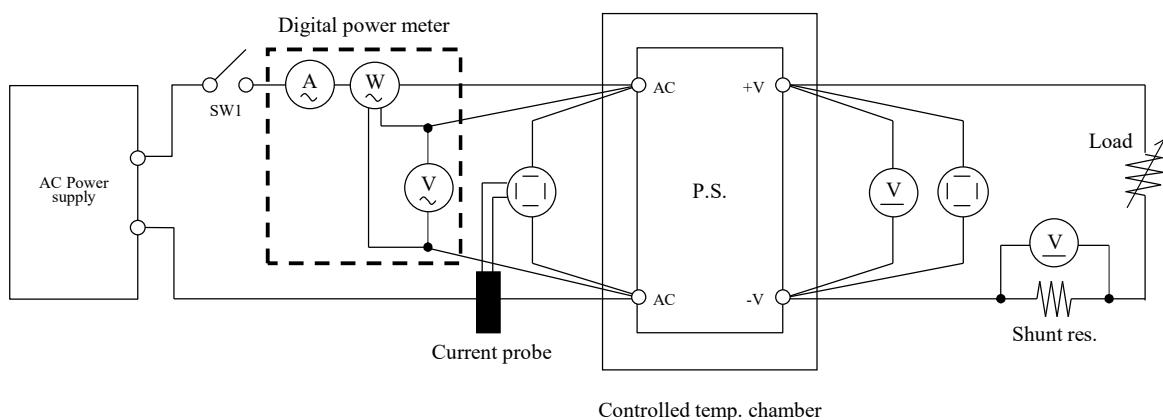
Test results are reference data based on our measurement condition.

1. 測定方法 Evaluation Method

1-1. 測定回路 Circuit used for determination

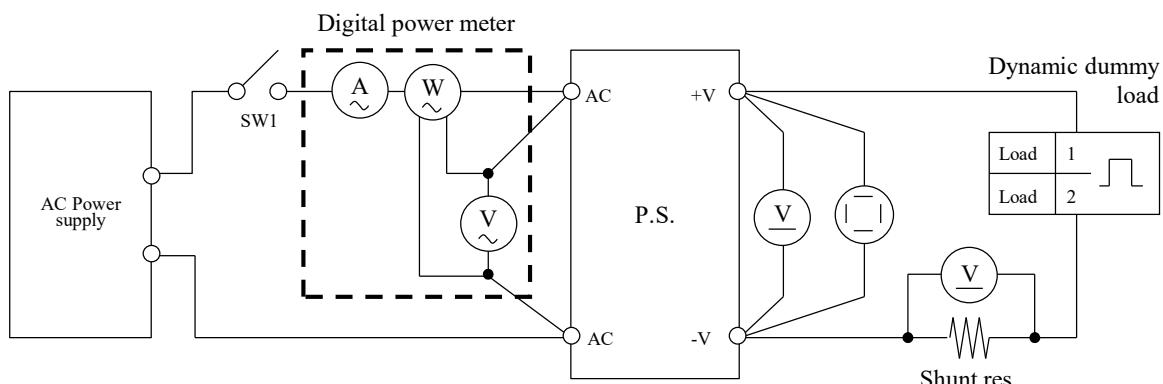
測定回路1 Circuit 1 used for determination

- 静特性 Steady state data
- 通電ドリフト特性 Warm up voltage drift characteristics
- 出力保持時間特性 Hold up time 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
- 過電流保護特性 Over current protection (OCP) characteristics
- 過電圧保護特性 Over voltage protection (OVP) characteristics
- 入力電圧瞬停特性 Response to brown out characteristics
- 入力電流波形 Input current waveform

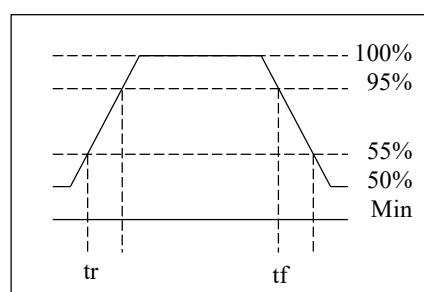


測定回路2 Circuit 2 used for determination

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

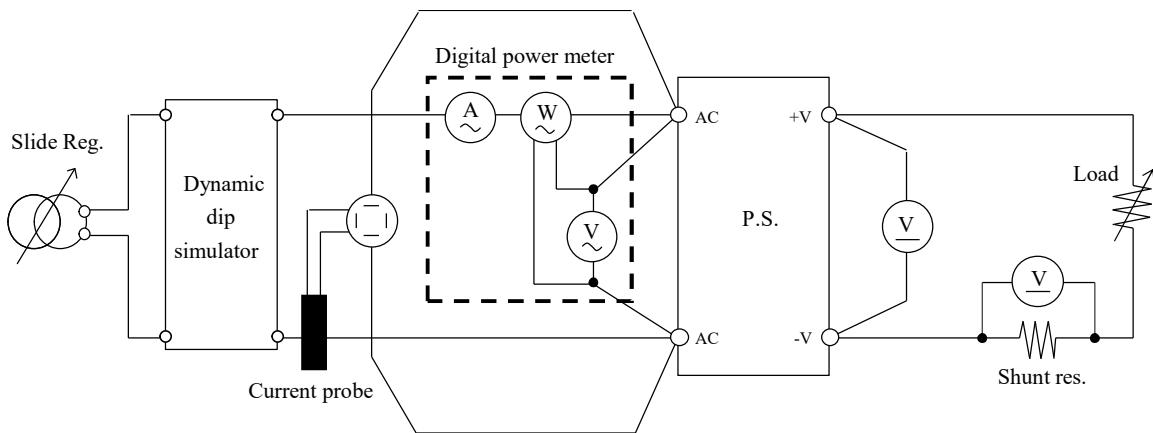


Output current waveform
Iout 50% <=> 100%

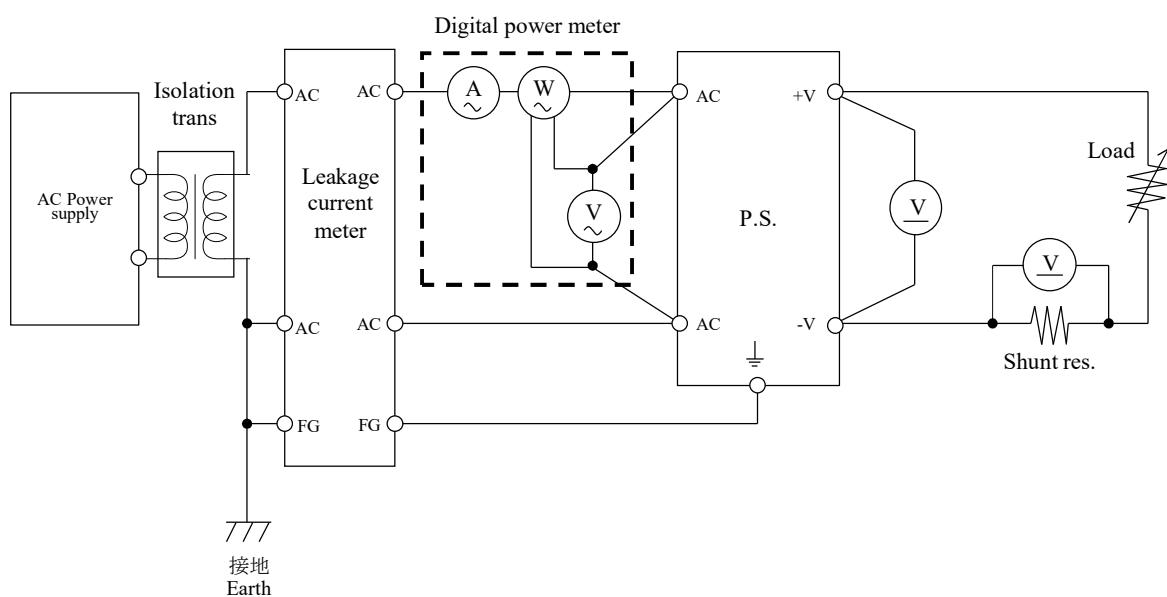


測定回路3 Circuit 3 used for determination

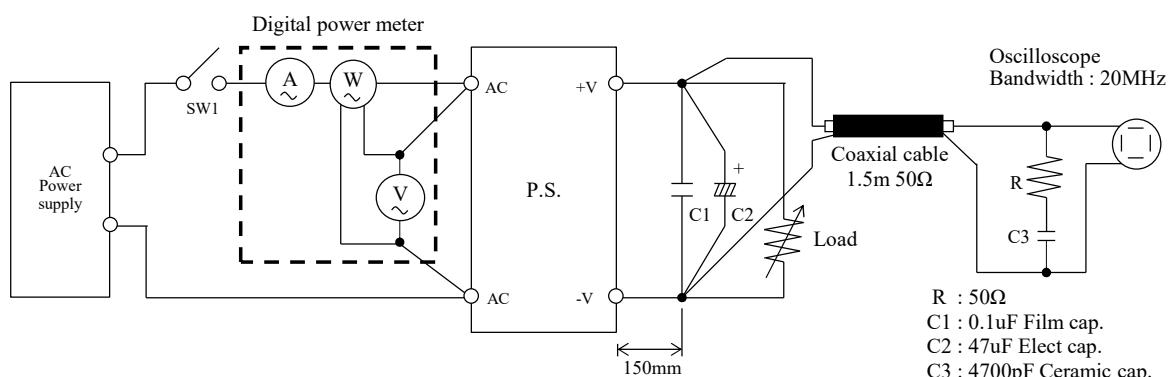
- 入力サージ電流（突入電流）波形 Inrush current waveform

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



測定回路6 Circuit 6 used for determination

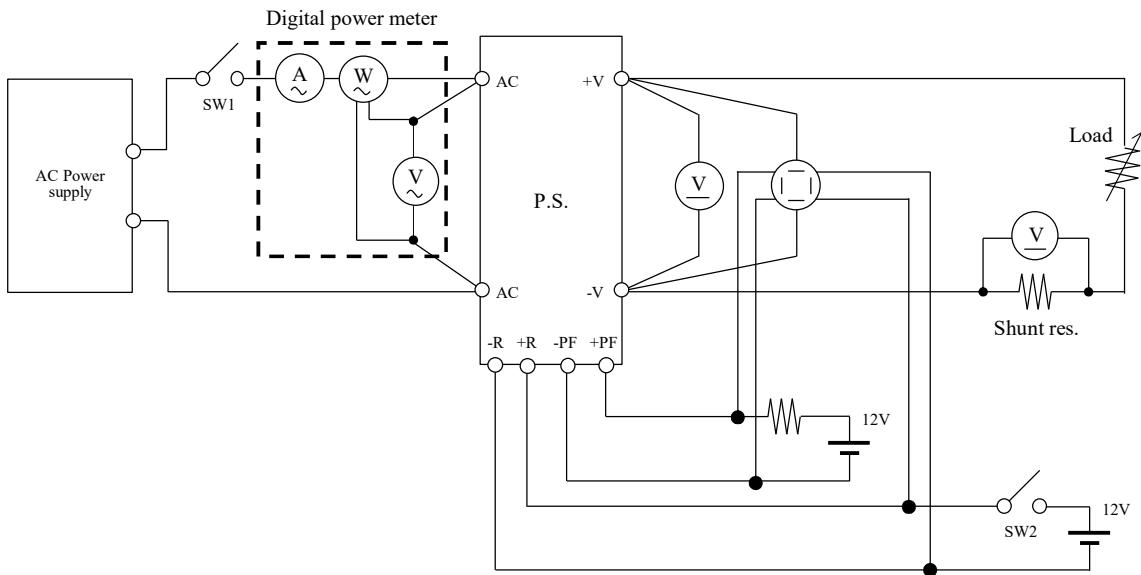
- ON/OFFコントロール時出力立ち上がり、立ち下がり特性
Output rise, fall characteristics with ON/OFF Control

準標準品 RWS1000B-*/R, /RFO にて対応

For option model RWS1000B-*/R, /RFO

* PF信号端子は、RWS1000B-*/RFOのみ対応

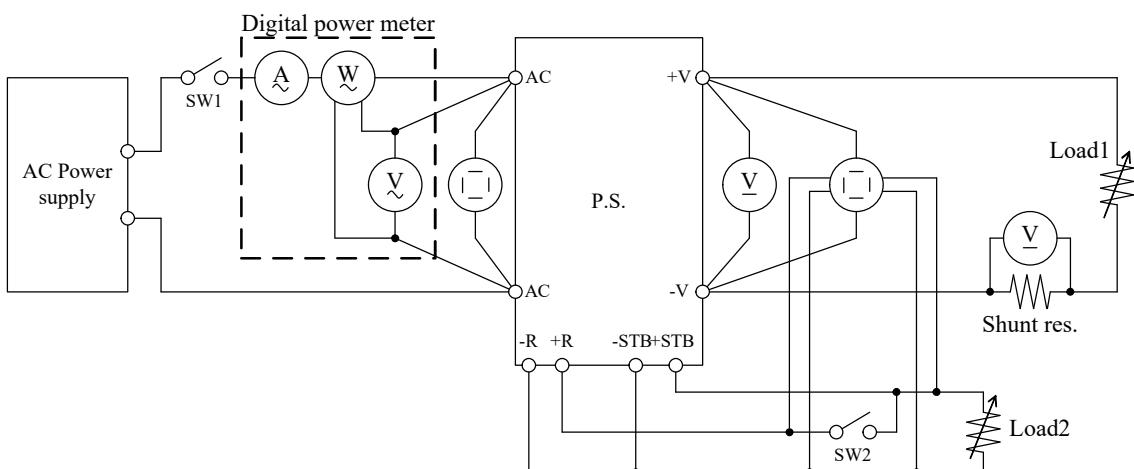
PF signal terminal is applied to only RWS1000B-*/RFO

測定回路7 Circuit 7 used for determination

- 無負荷時入力電力、電流 No load input power and current
- スタンバイ立ち上がり、立ち下がり特性 Standby rise, fall characteristics
- ON/OFFコントロール時出力立ち上がり、立ち下がり特性
Output rise, fall characteristics with ON/OFF Control

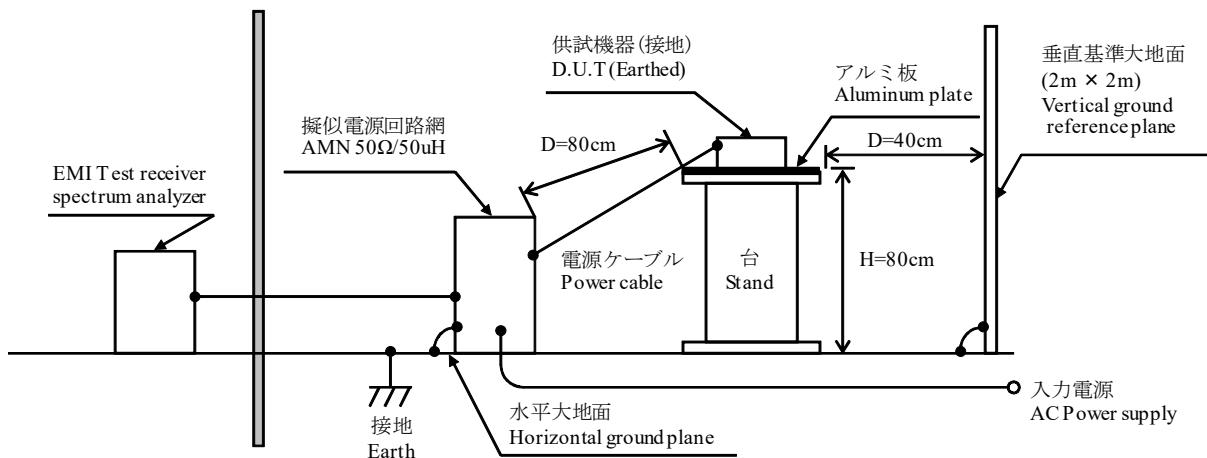
準標準品 RWS1000B-*/S にて対応

For option model RWS1000B-*/S

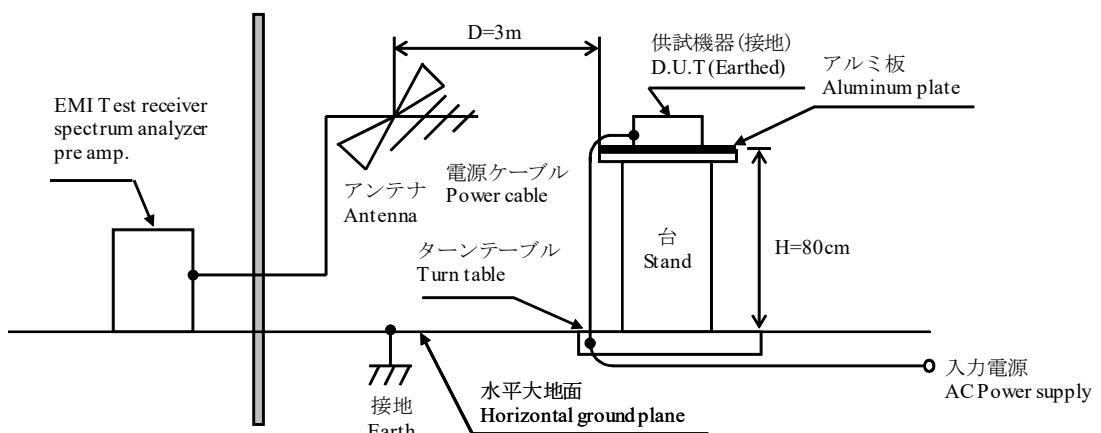


測定構成 Configuration used for determination

- EMI特性 Electro-Magnetic Interference characteristics
 - (a) 雑音端子電圧(帰還ノイズ) Conducted Emission



- (b) 雑音電界強度(放射ノイズ) Radiated Emission



1-2. 使用測定機器 List of equipment used

	EQUIPMENT USED	MANUFACTURER	MODEL NO.
1	DIGITAL STORAGE OSCILLOSCOPE	YOKOGAWA ELECT.	DLM2054
2	DIGITAL MULTIMETER	AGILENT	34970A
3	DIGITAL POWER METER	YOKOGAWA ELECT.	WT310HC
4	DIGITAL POWER METER	HIOKI	3331 / 3332
5	CURRENT PROBE	YOKOGAWA ELECT.	701928 / 701930
6	DYNAMIC DUMMY LOAD	KIKUSI	PLZ1004W / PLZ2004WB
7	DYNAMIC DUMMY LOAD	TEXIO	LSG-1050
8	DUMMY LOAD	PCN	RHF250 SIRIES
9	SLIDE REGULATOR	MATSUNAGA	SD-2650
10	ISOLATION TRANS	MATSUNAGA	3WTC-50K
11	CVCF	KIKUSUI	PCR4000L / PCR4000LA
12	CVCF	KIKUSUI	PCR4000LE / PCR6000LE
13	LEAKAGE CURRENT METER	HIOKI	3156
14	DYNAMIC DIP SIMULATOR	TAKAMISAWA	PSA-210
15	CONTROLLED TEMP. CHAMBER	ESPEC	PL-1KP
16	EMI TEST RECEIVER / SPECTRUM ANALYZER	ROHDE & SCHWARZ	ESCI
17	PRE AMP.	SONOMA	310N
18	AMN	SCHWARZBECK	NNLK8121
19	ANTENNA	SCHWARZBECK	CBL6111D
20	HARMONIC / FLICKER ANALYZER	KIKUSUI	KHA1000
21	SINGLE-PHASE MASTER	NF	4420
22	REFERENCE IMPEDANCE NETWORK 20A	NF	4150
23	MULTI OUTLET UNIT	KIKUSUI	OT01-KHA

2. 特性データ Characteristics

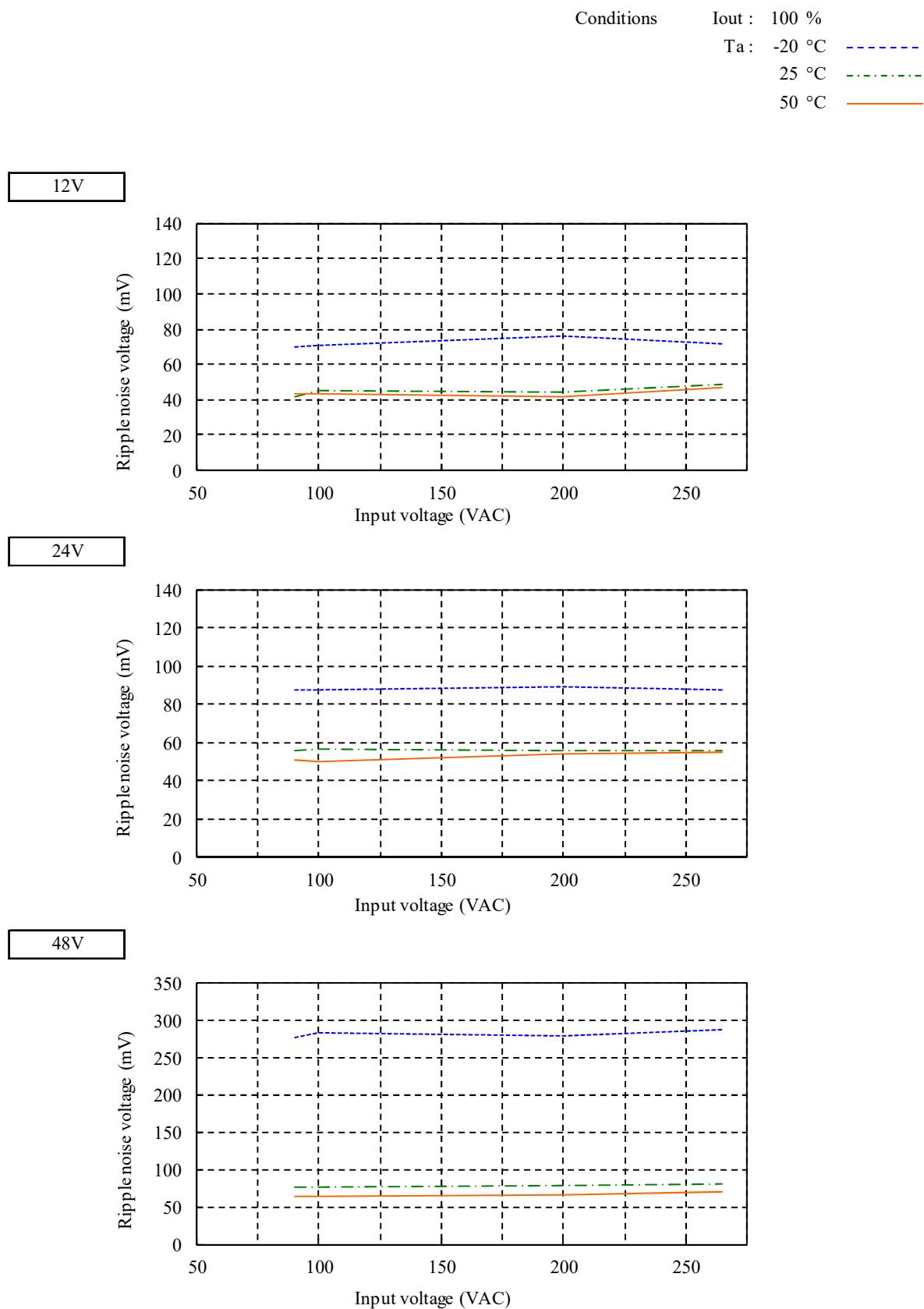
2-1. 静特性 Steady state data

(1) 入力・負荷・温度変動／出力起動・遮断電圧

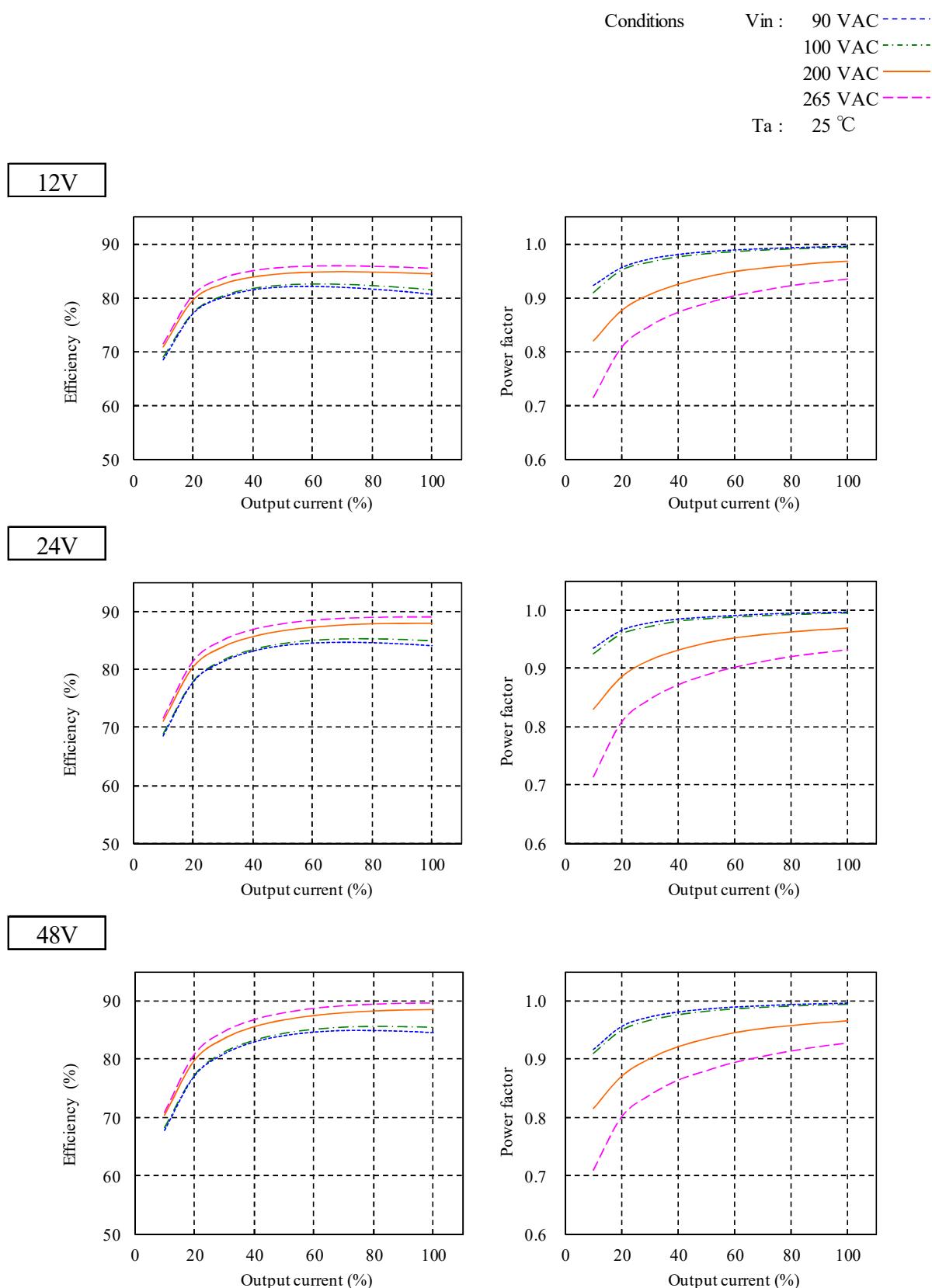
Regulation - line and load, Temperature drift / Start up voltage and Drop out voltage

12V	1. Regulation - line and load	Condition Ta : 25 °C					
	Iout \ Vin	90VAC	100VAC	200VAC	265VAC	Line regulation	
	0%	11.993V	11.994V	11.994V	11.994V	1mV 0.008%	
	50%	11.972V	11.972V	11.972V	11.972V	0mV 0.000%	
	100%	11.953V	11.953V	11.953V	11.953V	0mV 0.000%	
	Load regulation	40mV	41mV	41mV	41mV		
		0.333%	0.342%	0.342%	0.342%		
24V	2. Temperature drift	Conditions Vin : 100 VAC Iout : 100 %					
	Ta	-20°C	+25°C	+50°C	Temperature stability		
	Vout	11.959V	11.953V	11.939V	20mV	0.167%	
	3. Start up voltage and Drop out voltage					Conditions Ta : 25 °C Iout : 100 %	
	Start up voltage (Vin)	77VAC					
	Drop out voltage (Vin)	71VAC					
48V	1. Regulation - line and load	Condition Ta : 25 °C					
	Iout \ Vin	90VAC	100VAC	200VAC	265VAC	Line regulation	
	0%	23.964V	23.965V	23.965V	23.965V	1mV 0.004%	
	50%	23.949V	23.950V	23.949V	23.950V	1mV 0.004%	
	100%	23.939V	23.939V	23.939V	23.939V	0mV 0.000%	
	Load regulation	25mV	26mV	26mV	26mV		
		0.104%	0.108%	0.108%	0.108%		
2. Temperature drift	Ta	-20°C	+25°C	+50°C	Temperature stability	Conditions Vin : 100 VAC Iout : 100 %	
	Vout	23.910V	23.939V	23.952V	42mV	0.175%	
	3. Start up voltage and Drop out voltage					Conditions Ta : 25 °C Iout : 100 %	
	Start up voltage (Vin)	78VAC					
	Drop out voltage (Vin)	71VAC					
	1. Regulation - line and load						
48V	Iout \ Vin	90VAC	100VAC	200VAC	265VAC	Line regulation	Condition Ta : 25 °C
	0%	47.954V	47.954V	47.954V	47.954V	0mV 0.000%	
	50%	47.935V	47.936V	47.936V	47.935V	1mV 0.002%	
	100%	47.930V	47.930V	47.930V	47.930V	0mV 0.000%	
	Load regulation	24mV	24mV	24mV	24mV		
		0.050%	0.050%	0.050%	0.050%		
2. Temperature drift	Ta	-20°C	+25°C	+50°C	Temperature stability	Conditions Vin : 100 VAC Iout : 100 %	
	Vout	47.933V	47.930V	47.927V	6mV	0.013%	
	3. Start up voltage and Drop out voltage					Conditions Ta : 25 °C Iout : 100 %	
	Start up voltage (Vin)	77VAC					
	Drop out voltage (Vin)	70VAC					

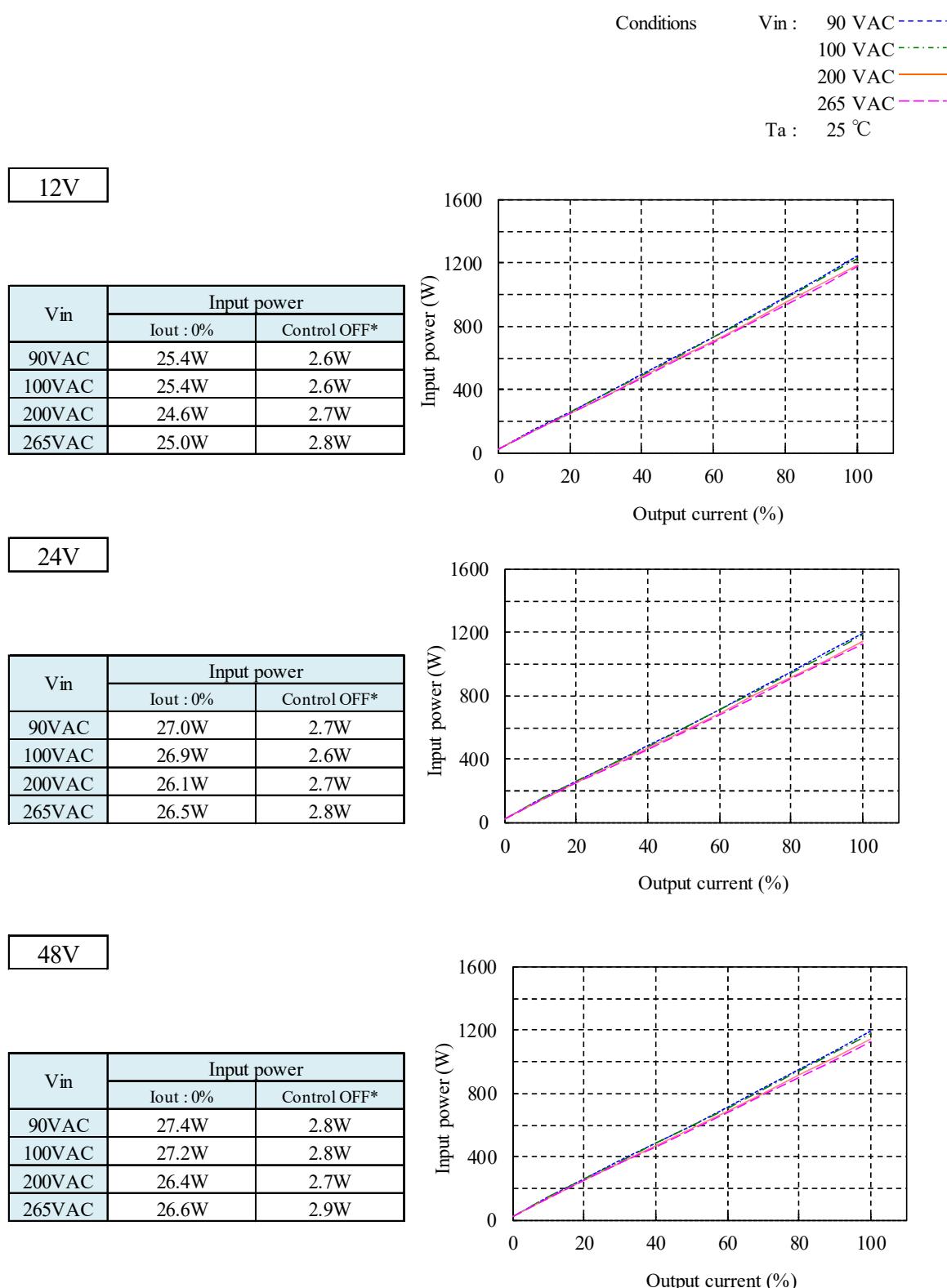
(2) リップルノイズ電圧対入力電圧 Ripple noise voltage vs. Input voltage



(3) 効率・力率対出力電流 Efficiency and Power factor vs. Output current



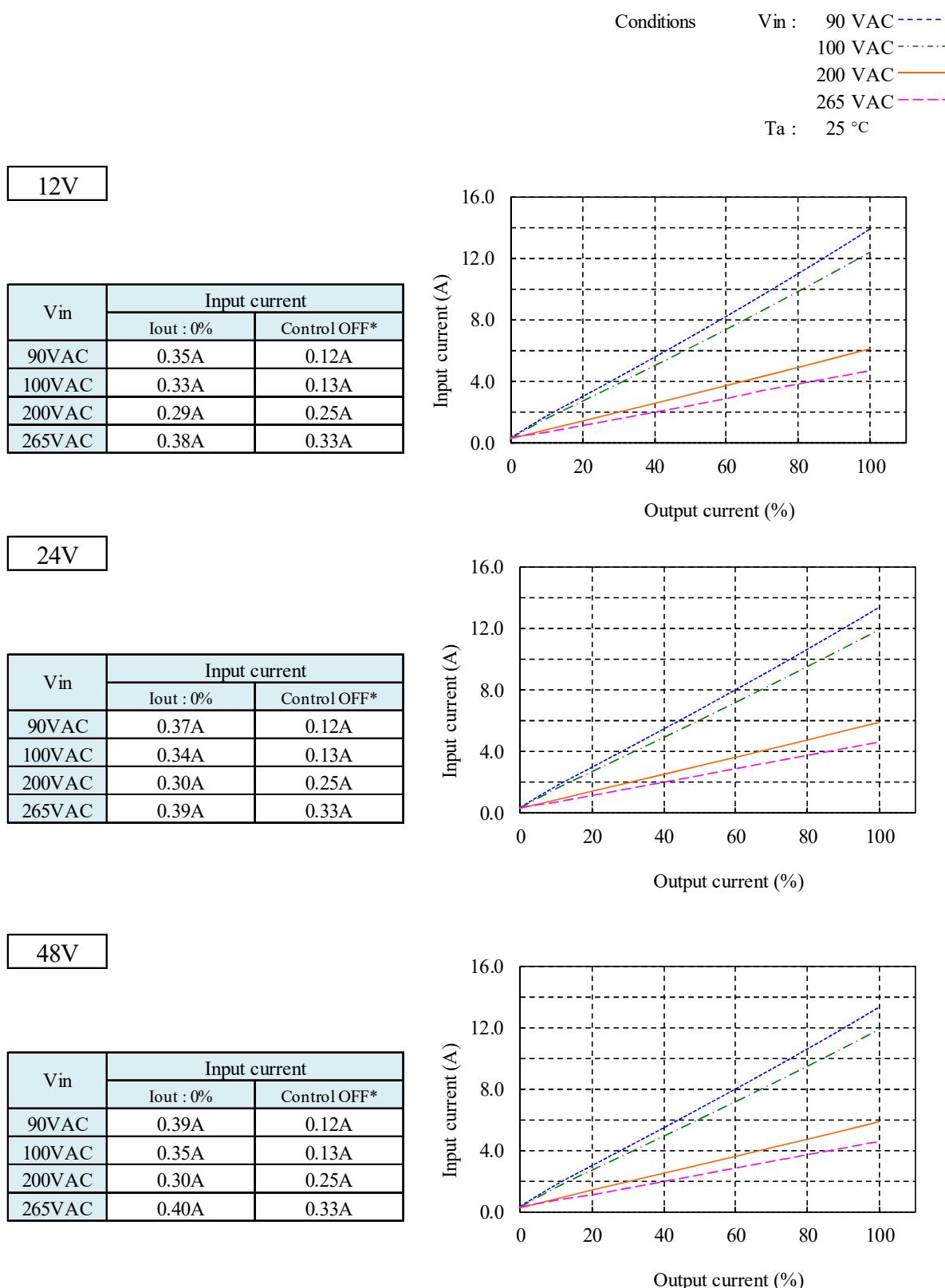
(4) 入力電力対出力電流 Input power vs. Output current



* 準標準品 RWS1000B-* /R, /RFO にて対応

For option model RWS1000B-* /R, /RFO

(5) 入力電流対出力電流 Input current vs. Output current

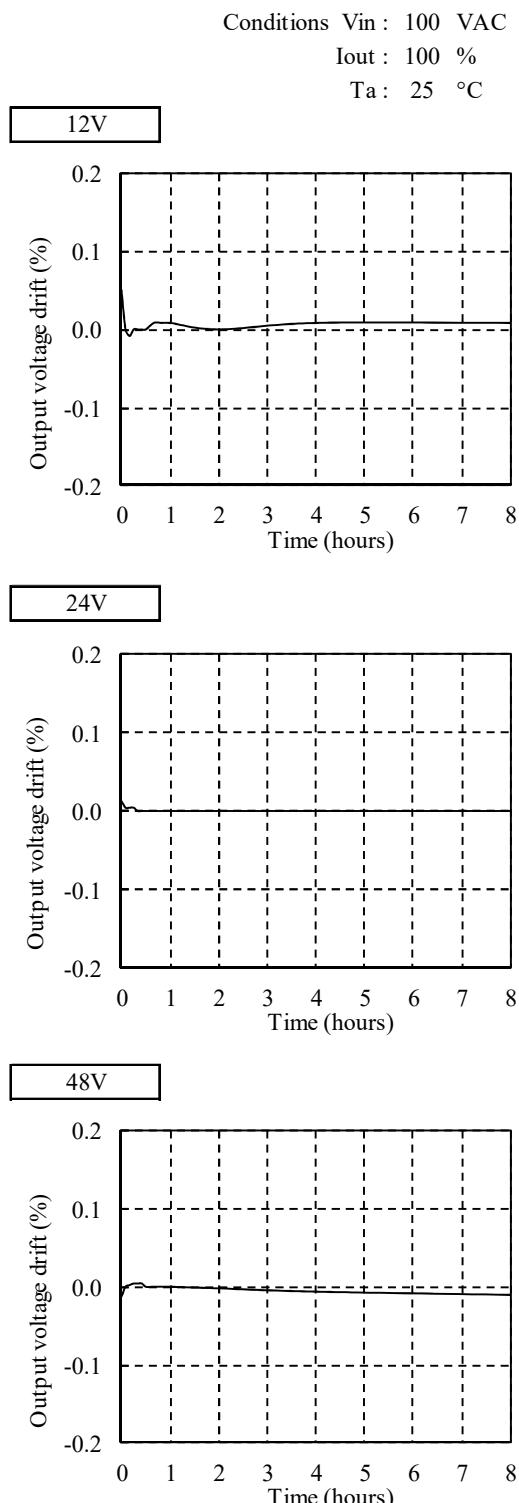


* 準標準品 RWS1000B-*/R, /RFO にて対応

For option model RWS1000B-*/R, /RFO

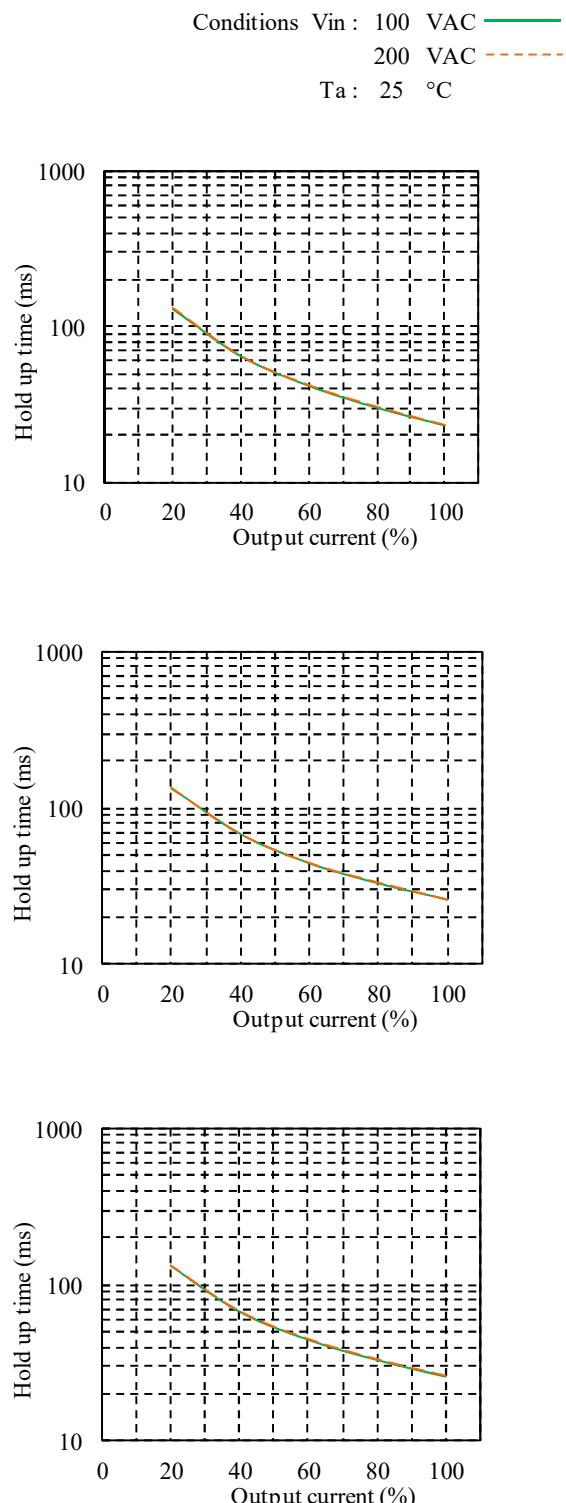
2-2. 通電ドリフト特性

Warm up voltage drift characteristics



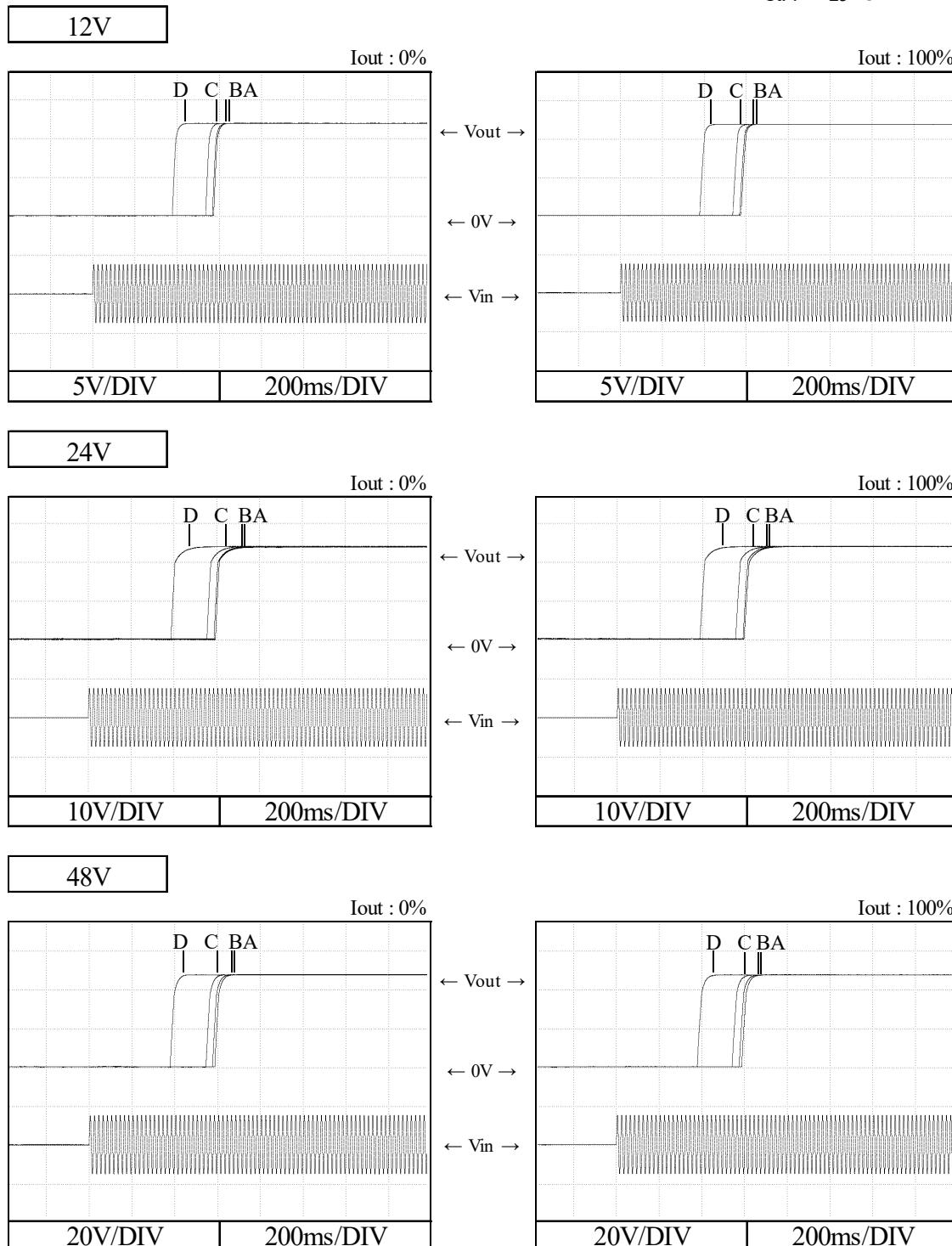
2-3. 出力保持時間特性

Hold up time characteristics



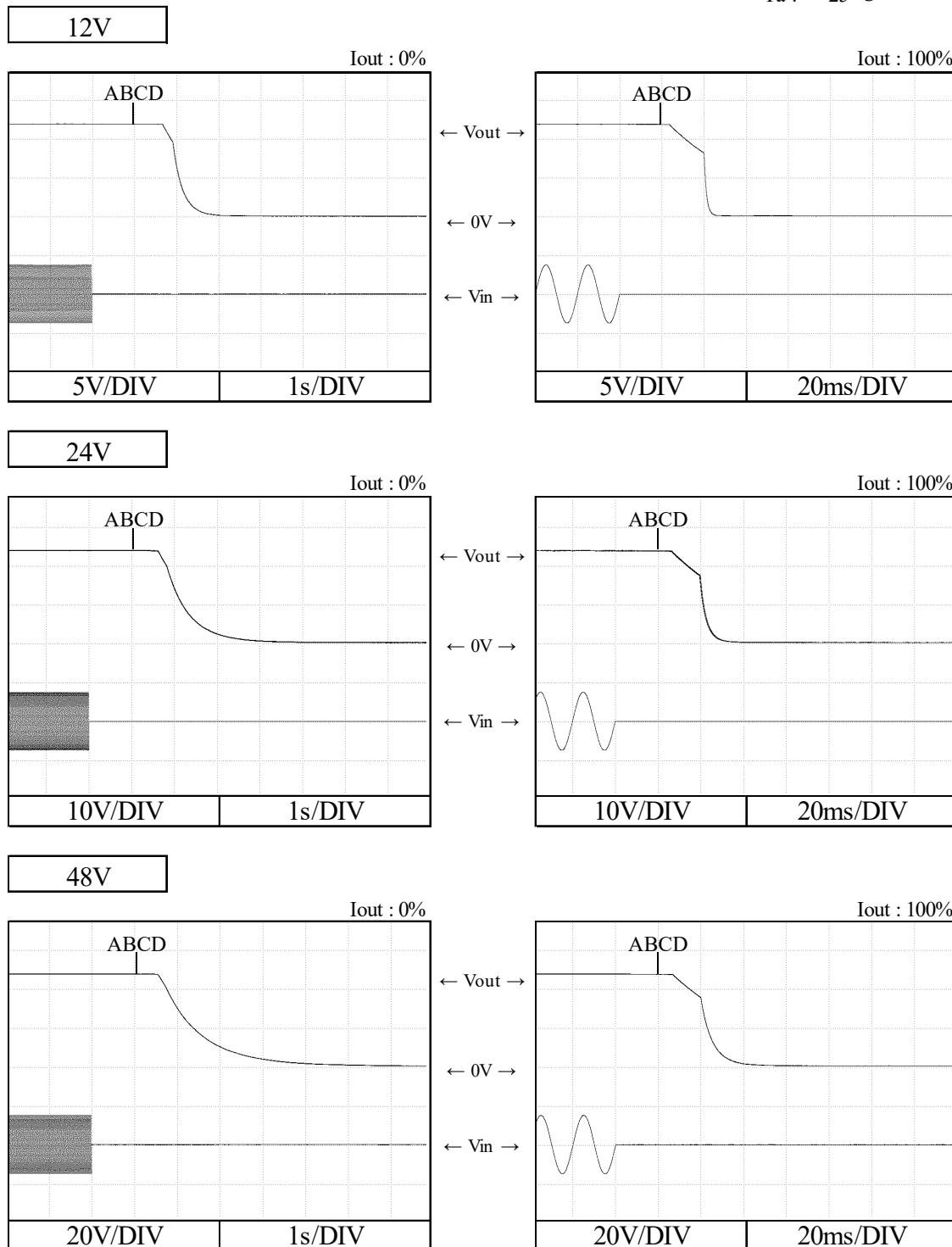
2-4. 出力立ち上がり特性 Output rise characteristics

Conditions Vin : 90 VAC (A)
100 VAC (B)
200 VAC (C)
265 VAC (D)
Ta : 25 °C



2-5. 出力立ち下がり特性 Output fall characteristics

Conditions Vin : 90 VAC (A)
100 VAC (B)
200 VAC (C)
265 VAC (D)
Ta : 25 °C



2-6. ON/OFFコントロール時出力立ち上がり、立下がり特性

Output rise, fall characteristics with ON/OFF Control

準標準品 RWS1000B-*/R, /RFO にて対応

For option model RWS1000B-*/R, /RFO

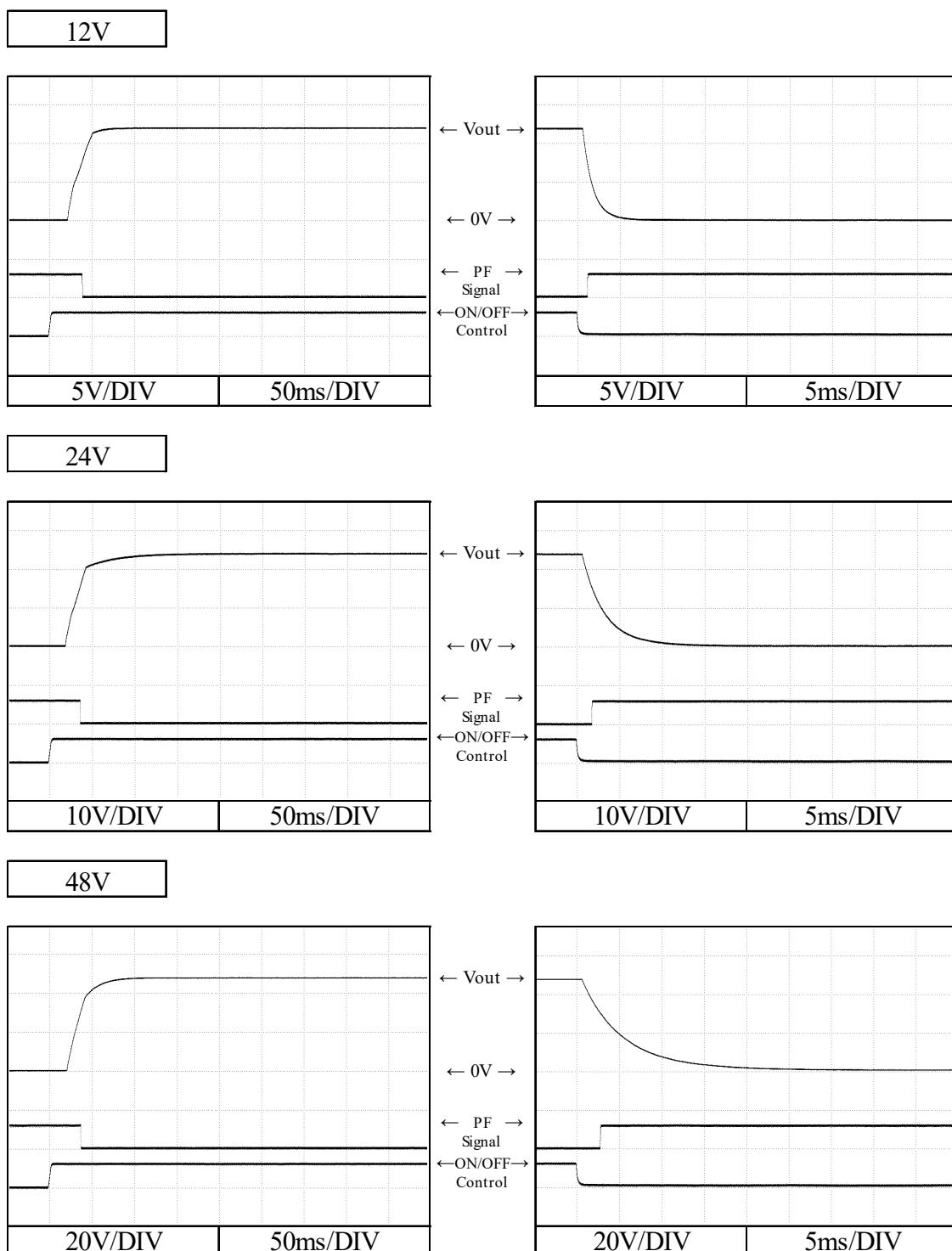
Conditions Vin : 100 VAC

Iout : 100 %

Ta : 25 °C

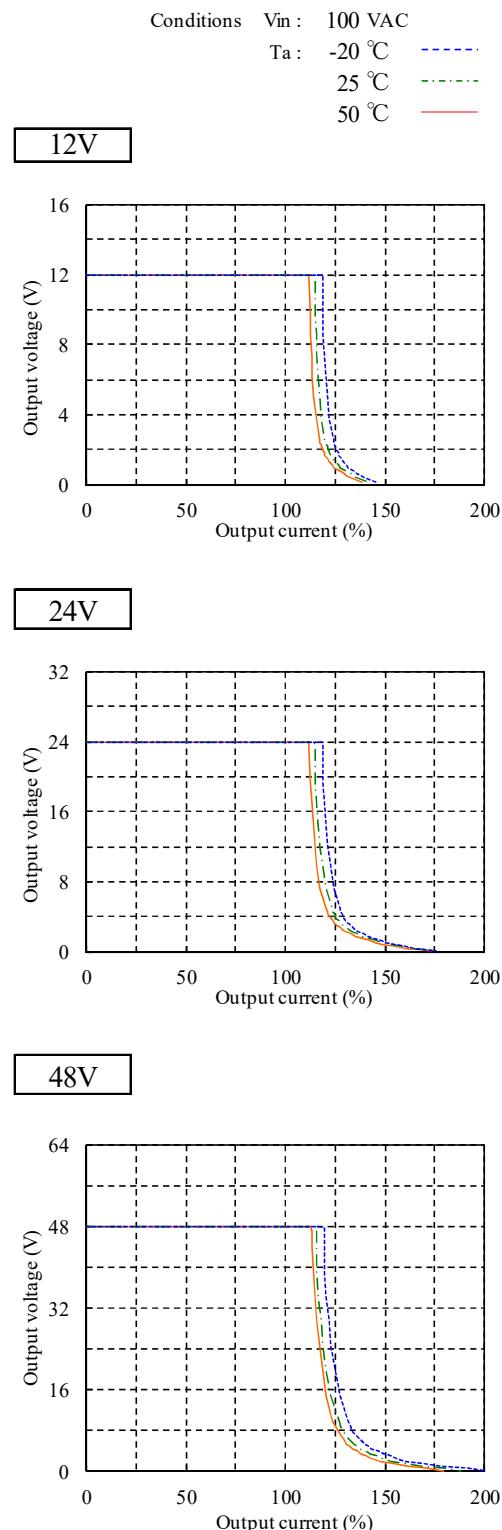
* PF信号は、RWS1000B-*/RFOのみ対応

PF signal is applied to only RWS1000B-*/RFO



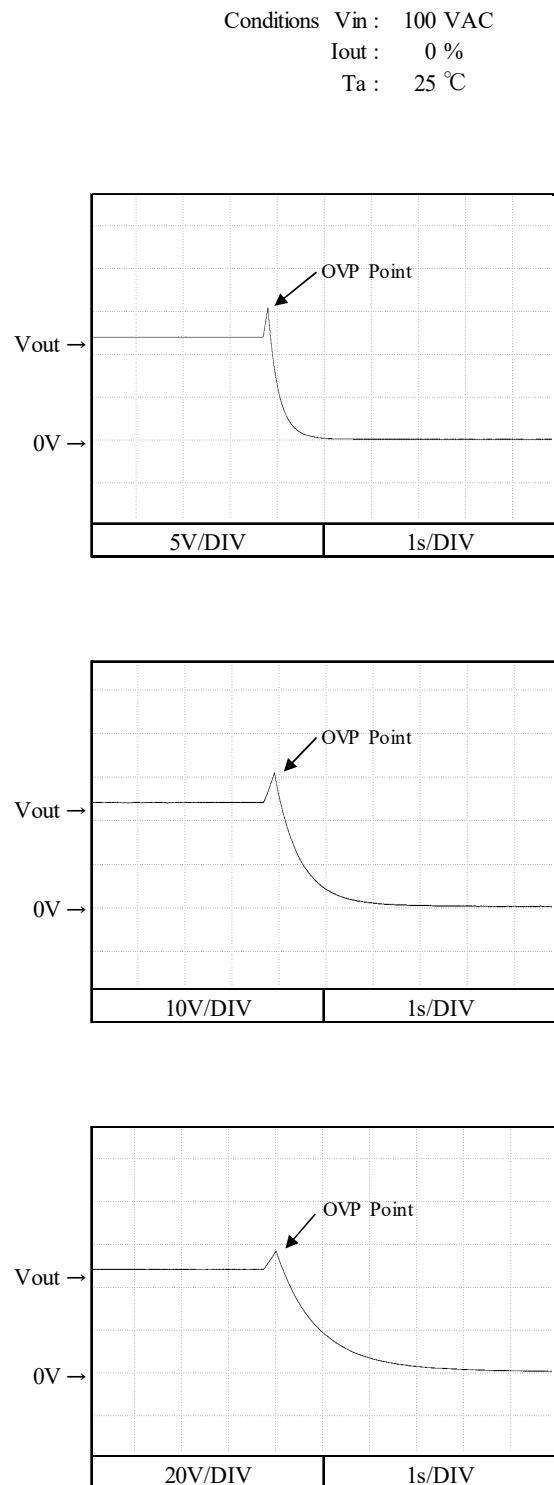
2-7. 過電流保護特性

Over current protection (OCP) characteristics



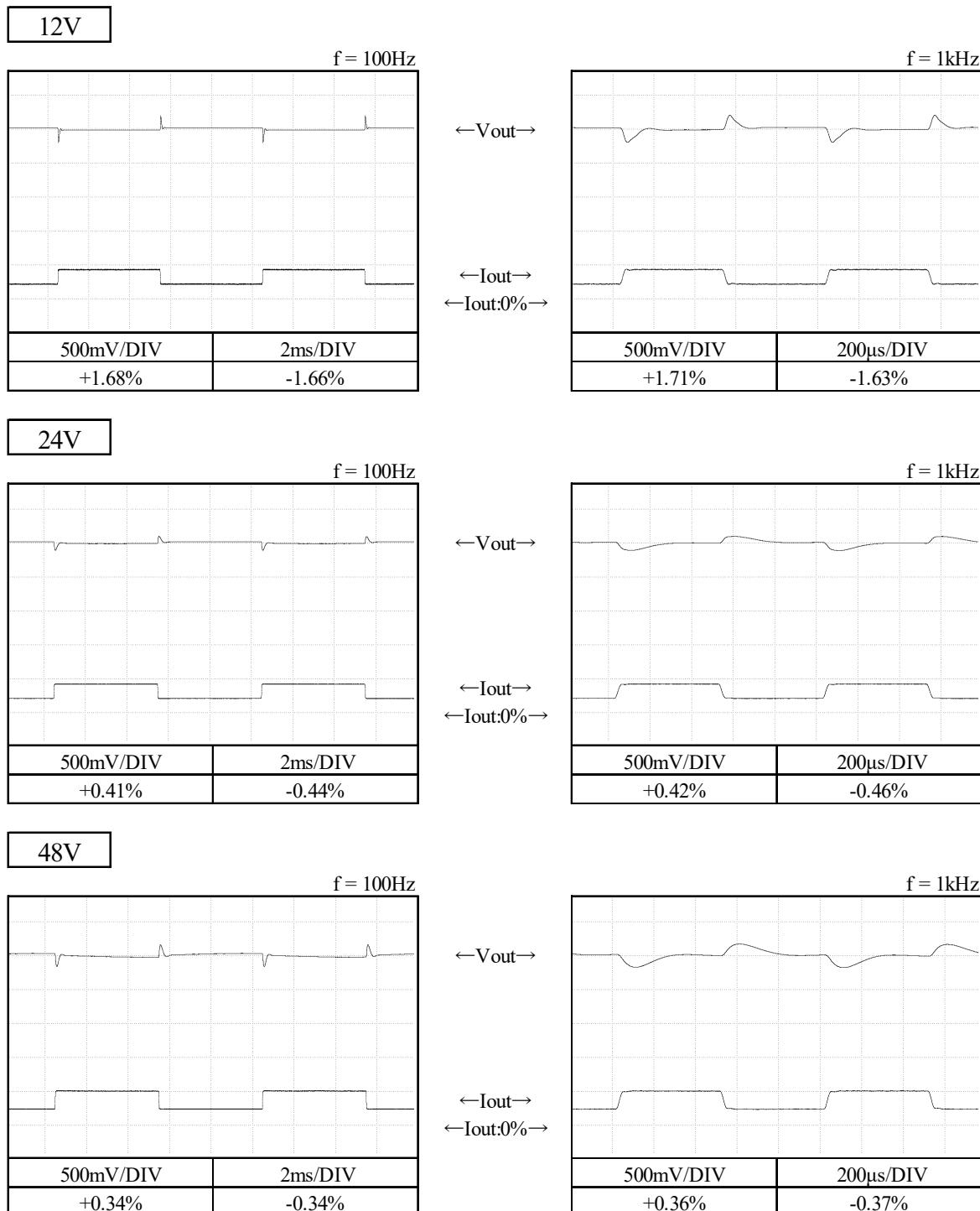
2-8. 過電圧保護特性

Over voltage protection (OVP) characteristics



2-9. 過渡応答(負荷急変)特性 Dynamic load response characteristics

Conditions Vin : 100 VAC
 Iout : 50 % \leftrightarrow 100 %
 (tr = tf = 75us)
 Ta : 25 °C



2-10. 入力電圧瞬停特性 Response to brown out characteristics

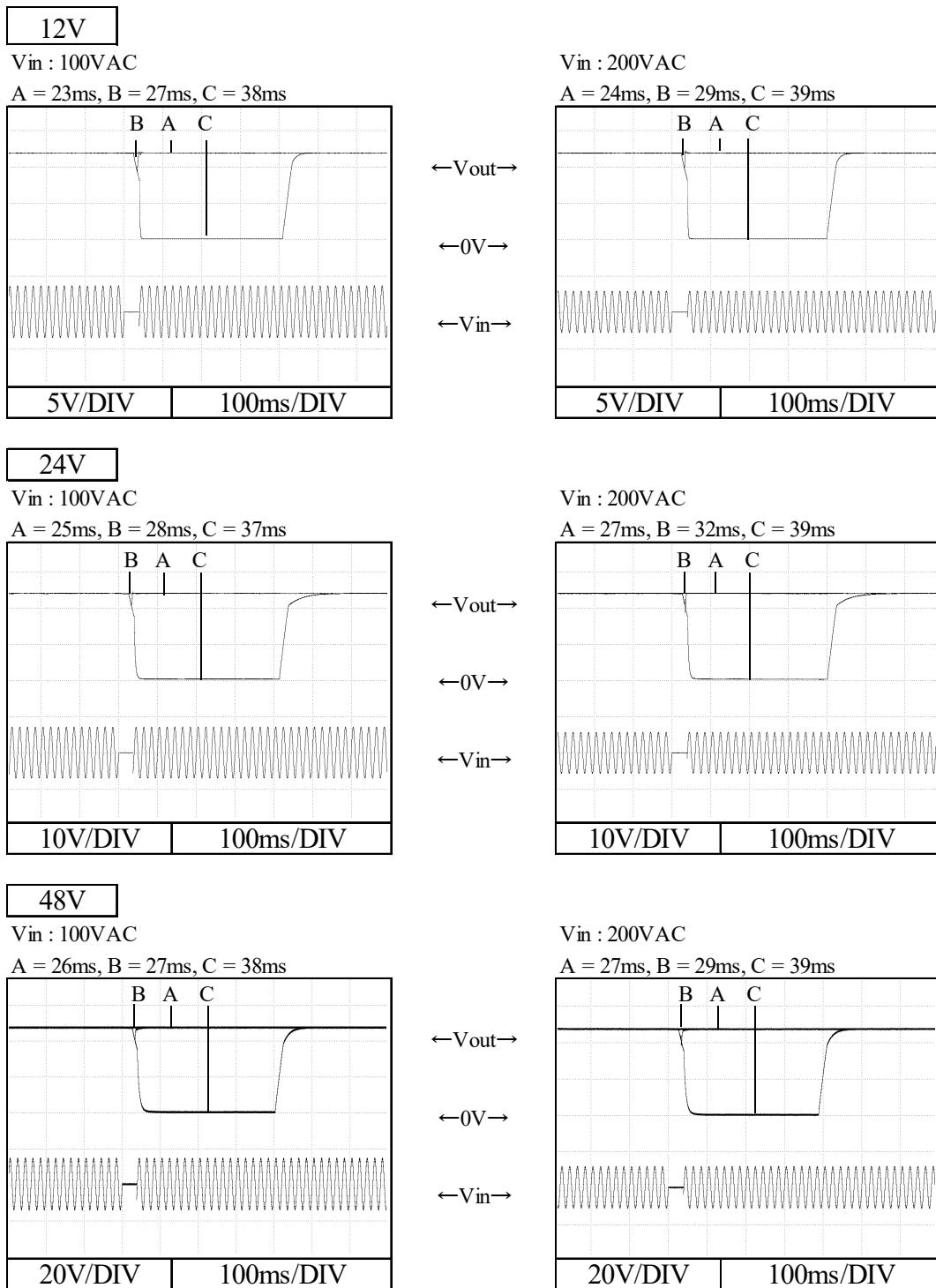
Conditions Iout : 100 %
 Ta : 25 °C

瞬停時間 Interruption time

A : 出力電圧が低下なし Output voltage does not drop.

B : 出力電圧の低下が0Vまでいかない Output voltage drop down not reaching 0V.

C : 出力電圧が0Vまで低下 Output voltage drops until 0V.

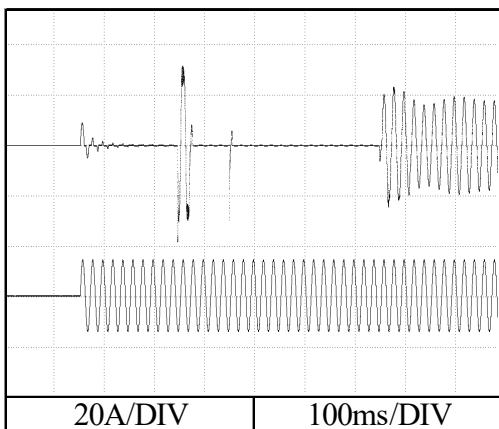


2-11. 入力サージ電流(突入電流)波形 Inrush current waveform

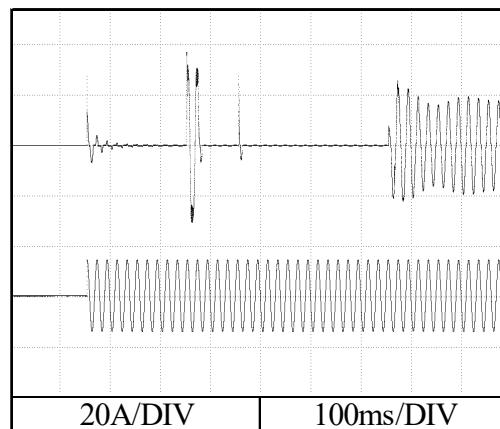
12V

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

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

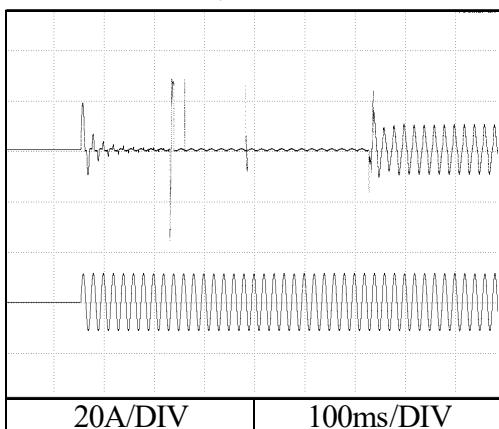


Switch on phase angle of input AC voltage
 $\phi = 90^\circ$

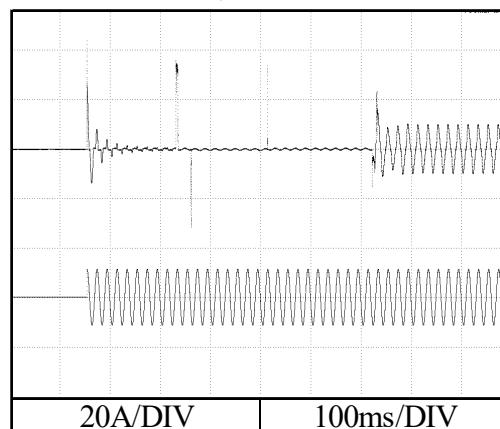


Conditions
Vin : 200 VAC
Iout : 100 %
Ta : 25 °C

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



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

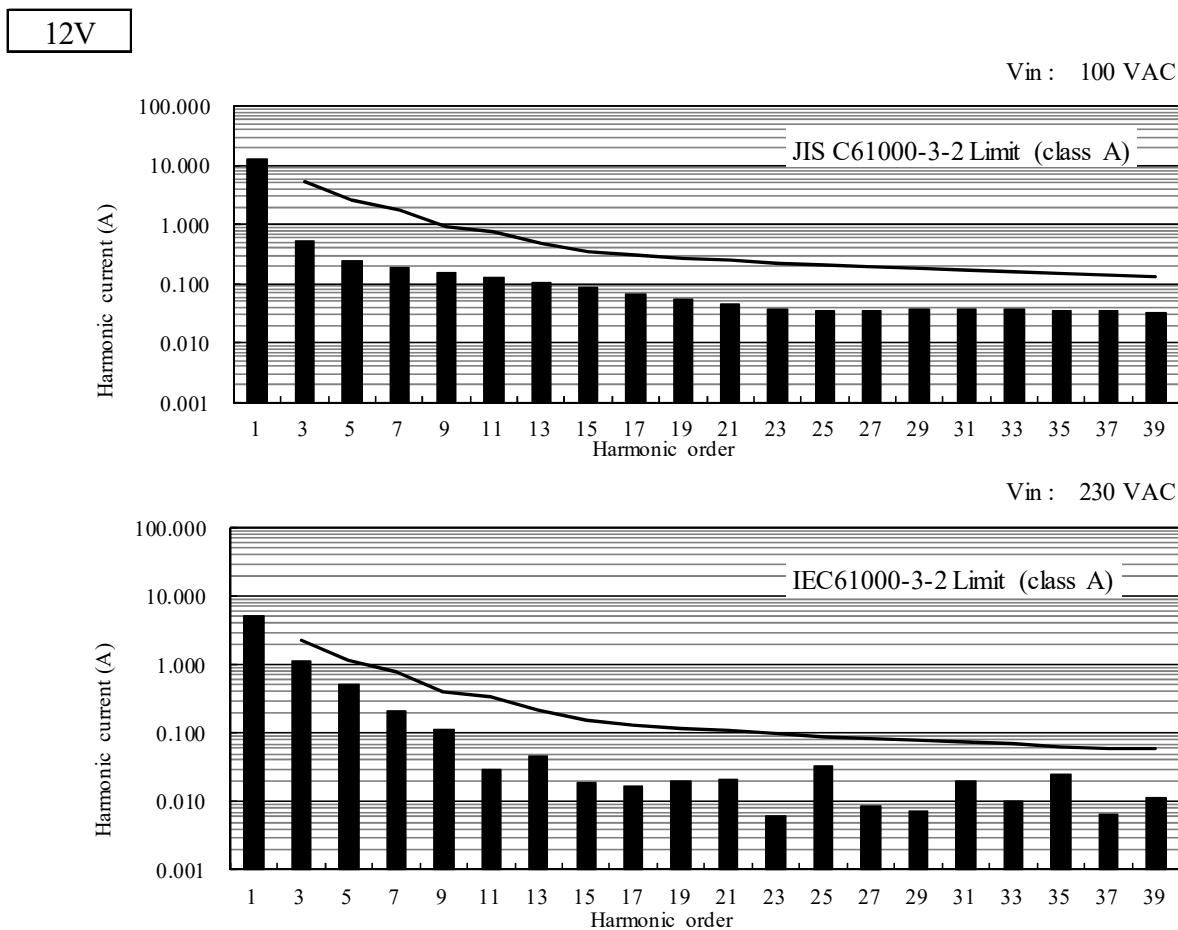


2-12. 高調波成分 Input current harmonics

Conditions

Iout : 100 %

Ta : 25 °C

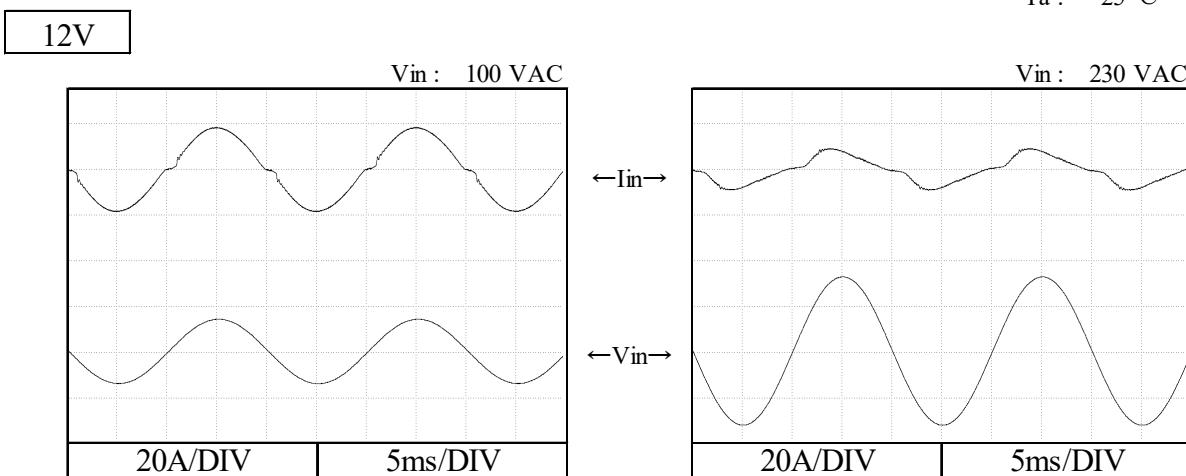


2-13. 入力電流波形 Input current waveform

Conditions

Iout : 100 %

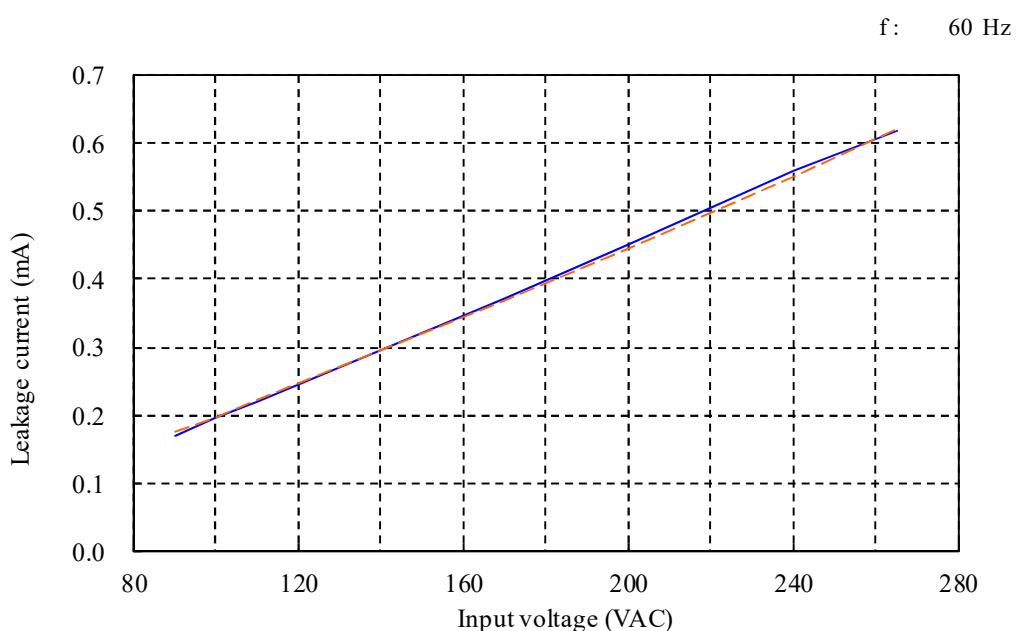
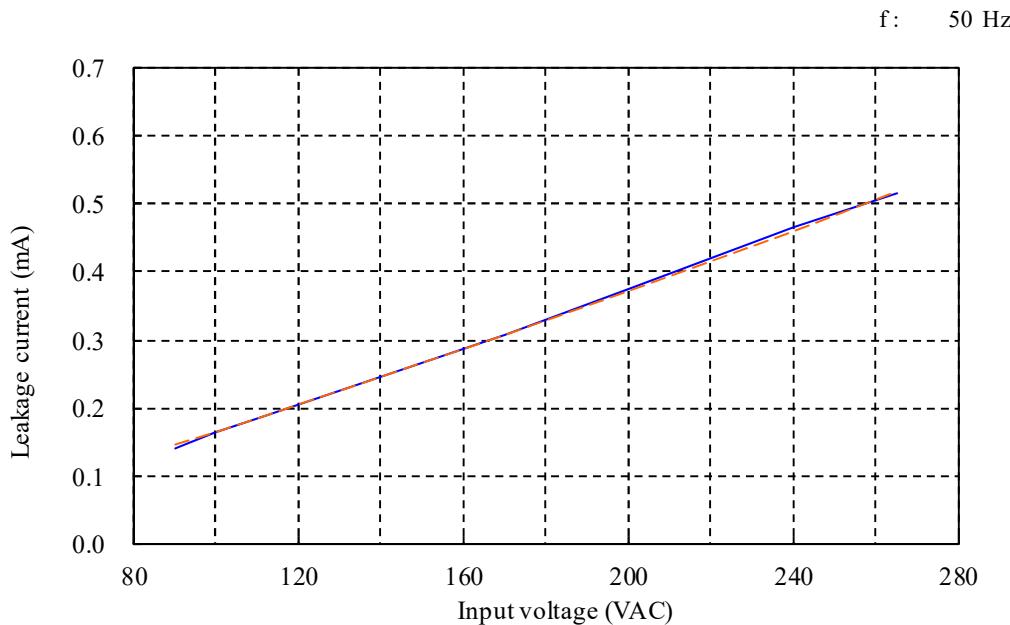
Ta : 25 °C



2-14. リーク電流特性 Leakage current characteristics

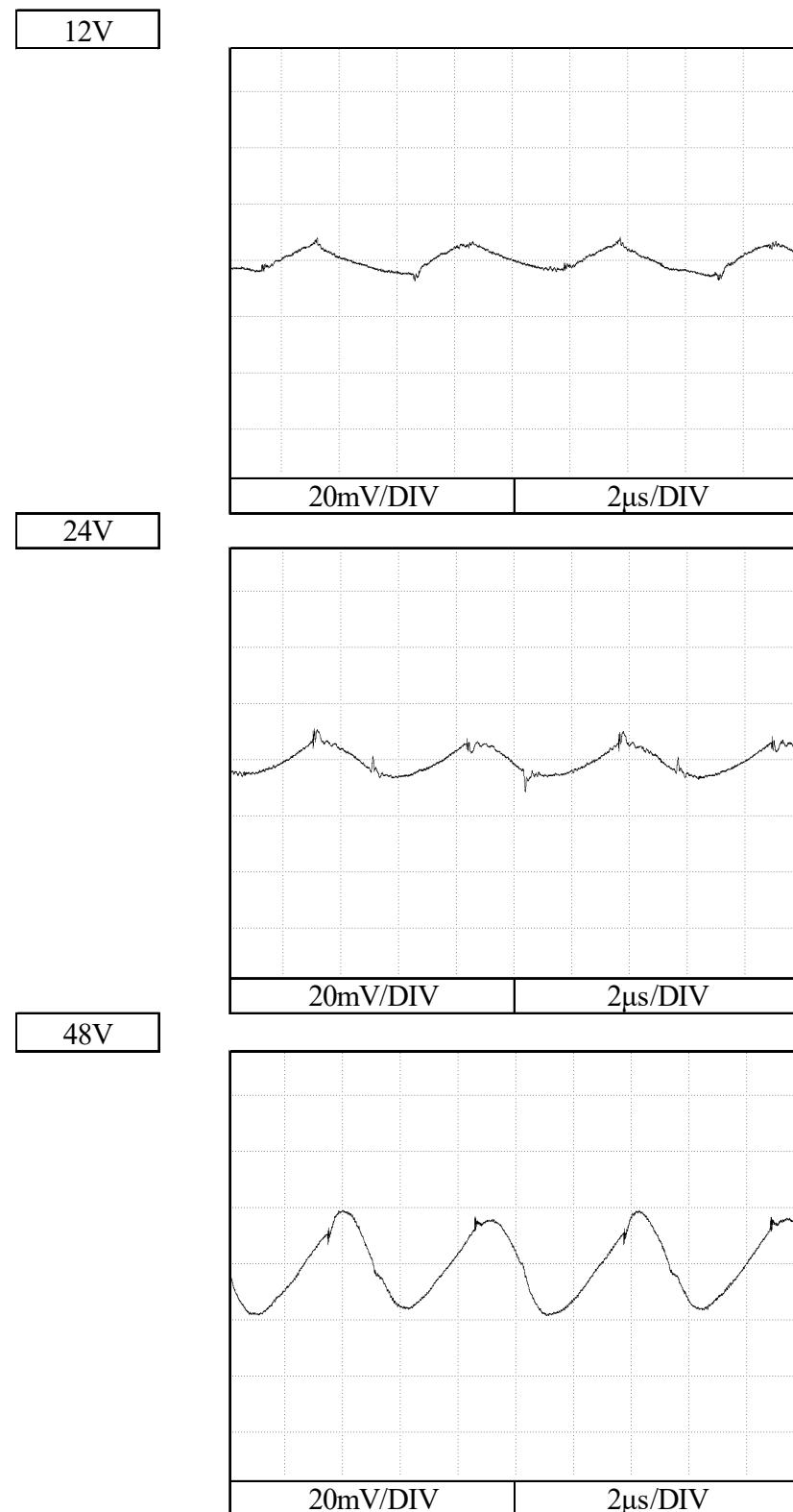
Conditions Iout : 0 % ———
100 % - - -
Ta : 25 °C
Equipment used : 3156 (HIOKI)

12V



2-15. 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

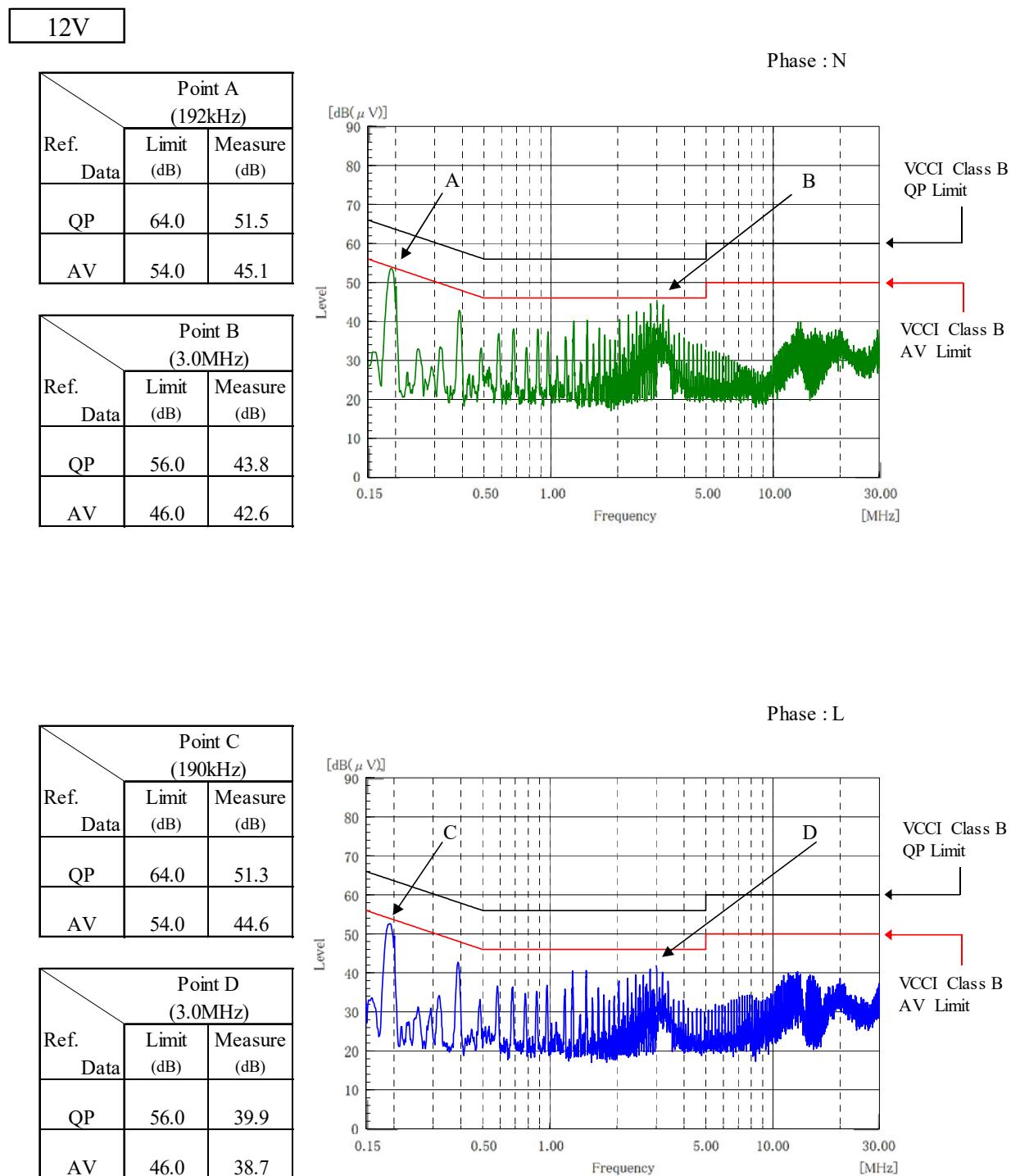


2-16. EMI特性 Electro-Magnetic Interference characteristics

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

雜音端子電圧

Conducted Emission



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.

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

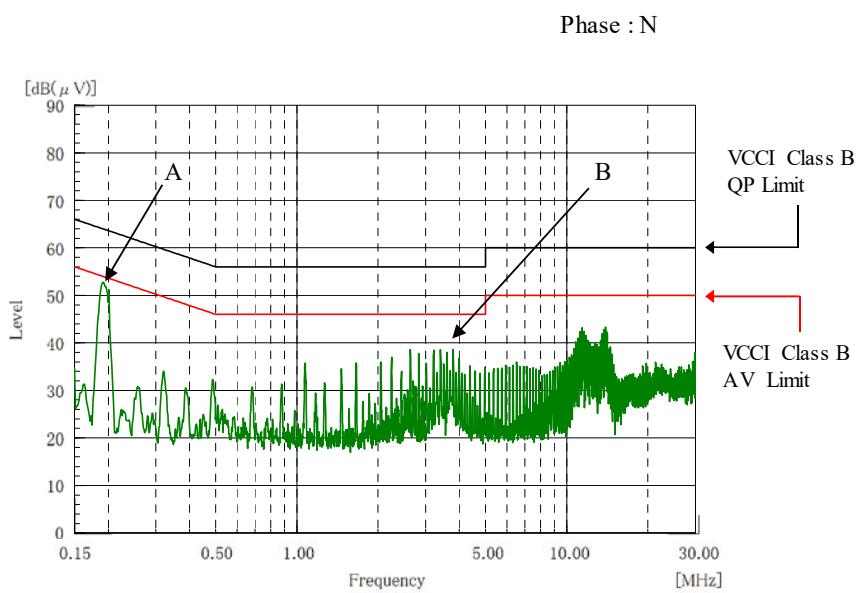
雜音端子電圧

Conducted Emission

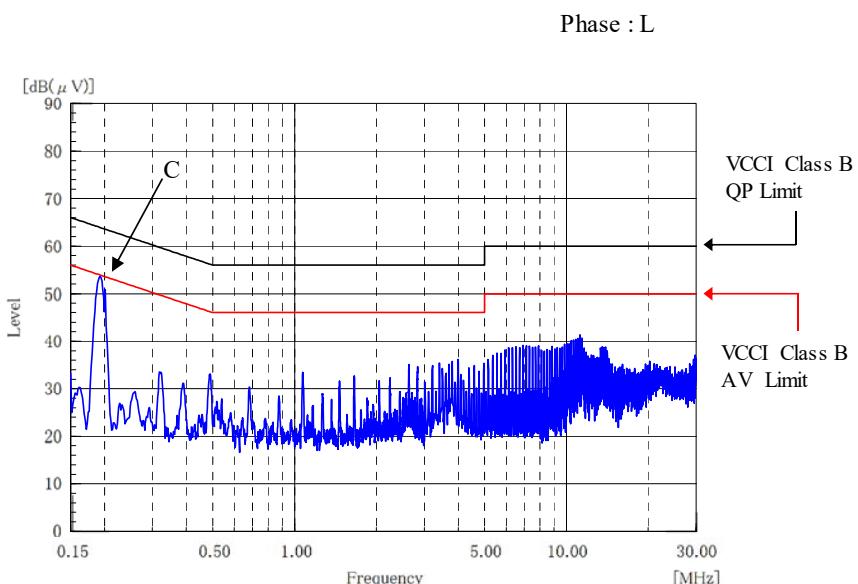
24V

Point A (195kHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	63.8	50.4
AV	53.8	43.9

Point B (3.8MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	36.9
AV	46.0	35.8



Point C (193kHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	63.9	51.3
AV	53.9	44.6



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.

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

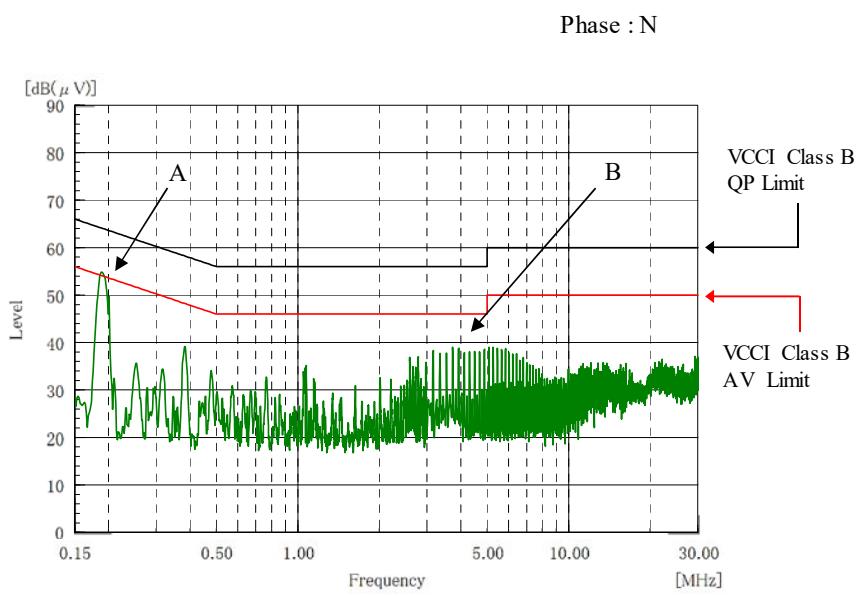
雜音端子電圧

Conducted Emission

48V

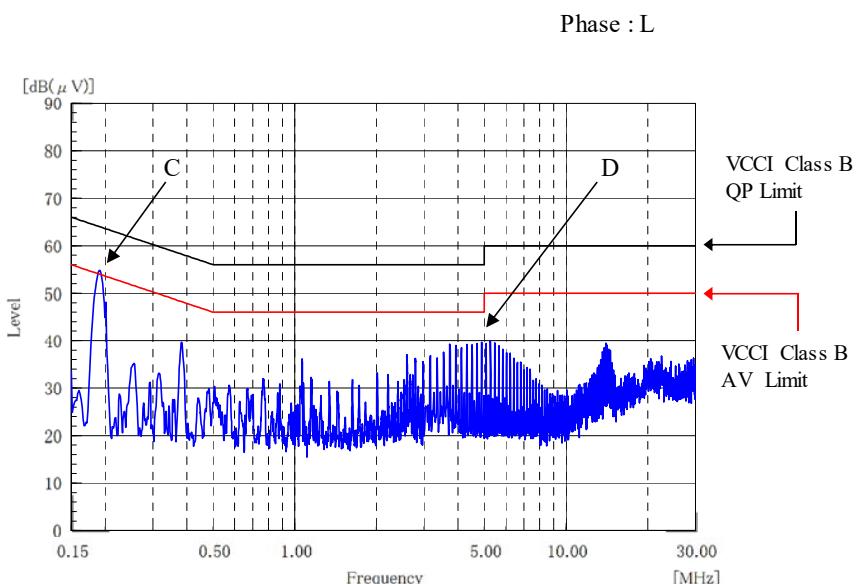
Point A (191kHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	64.0	53.6
AV	54.0	48.5

Point B (3.7MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	37.2
AV	46.0	36.5



Point C (192kHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	64.0	53.3
AV	54.0	48.5

Point D (4.9MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	56.0	38.0
AV	46.0	37.9



EN55011-B,EN55032-B,FCC-Bの限界値はVCCI class Bの限界値と同じ

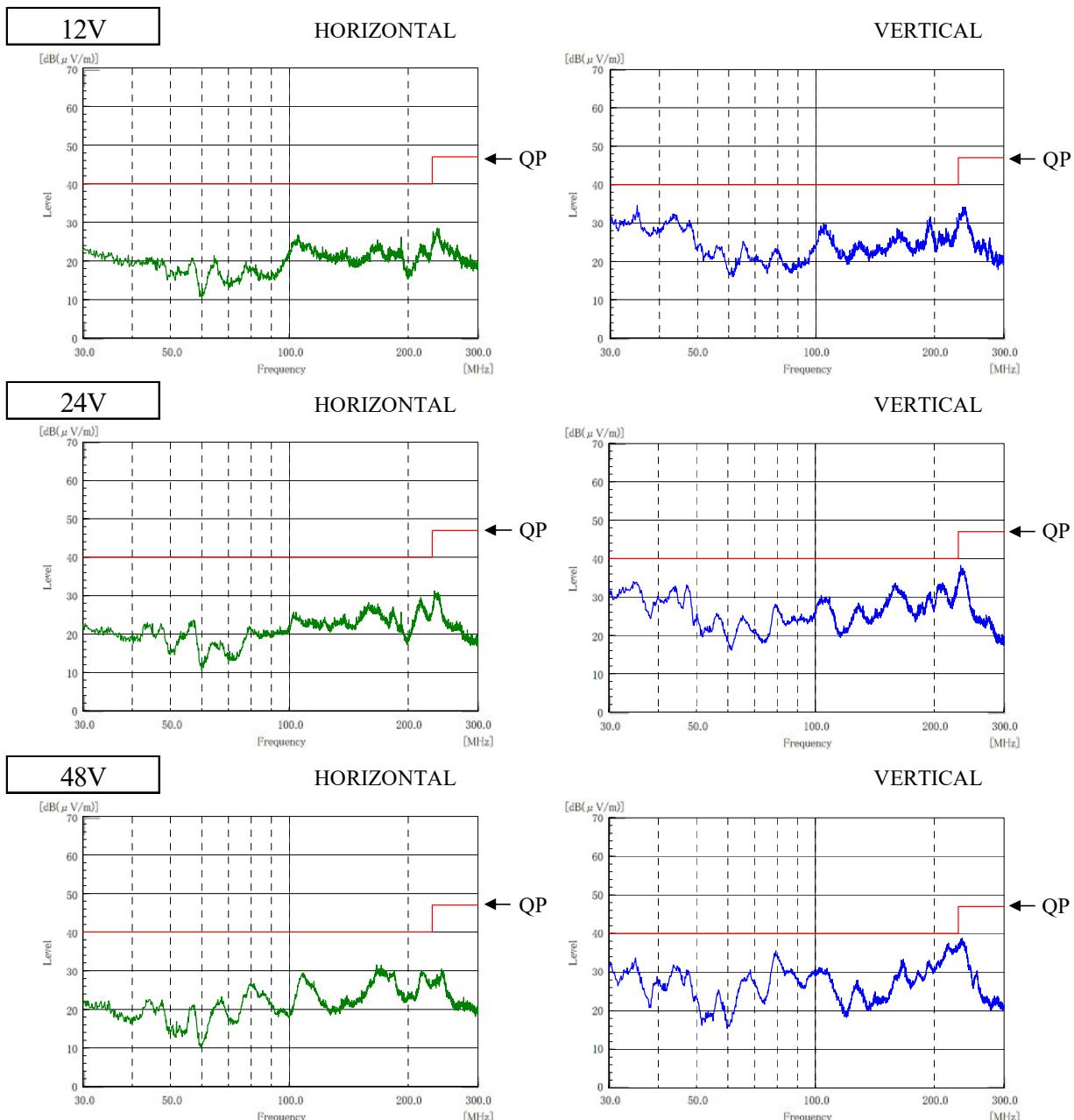
Limit of EN55011-B,EN55032-B,FCC-B are same as its VCCI class B.

Conditions

Vin : 230 VAC
Iout : 100 %
Ta : 25 °C

雜音電界強度

Radiated Emission



EN55011-B, EN55032-Bの限界値はVCCI class Bの限界値と同じ

Limit of EN55011-B, EN55032-B are same as its VCCI class B.

表示はピーク値

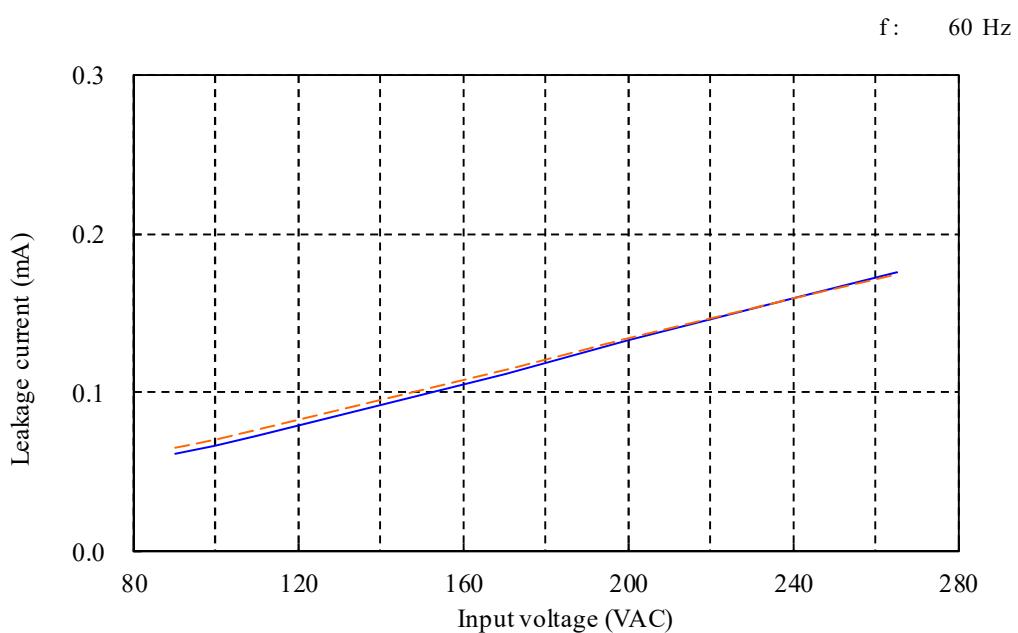
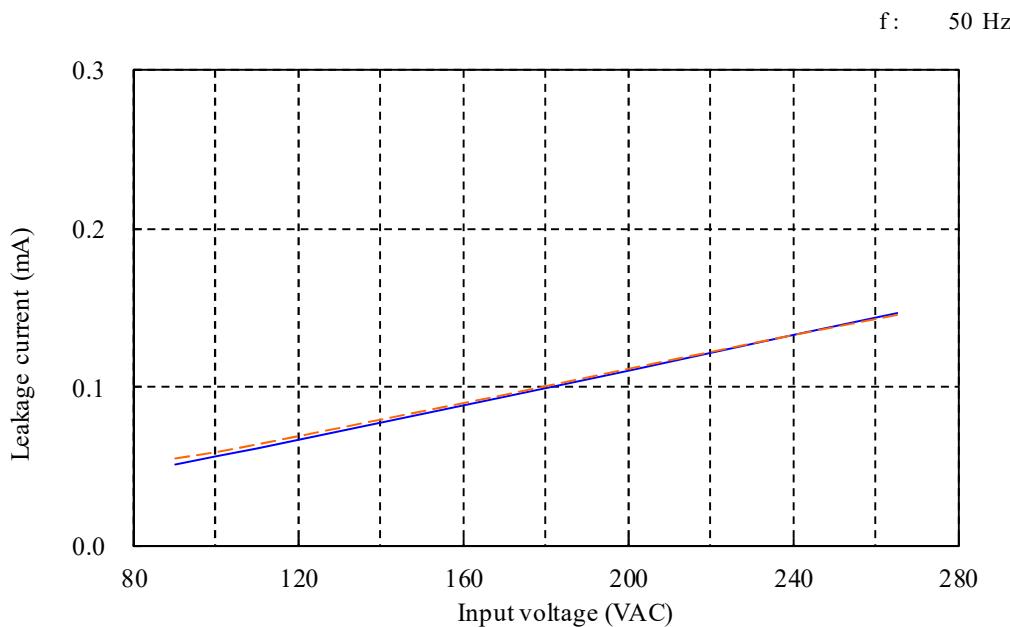
Indication is peak values.

2-17. リーク電流特性 Leakage current characteristics

MODEL : RWS1000B/ME

Conditions Iout : 0 % ———
100 % - - -
Ta : 25 °C
Equipment used : 3156 (HIOKI)

12V



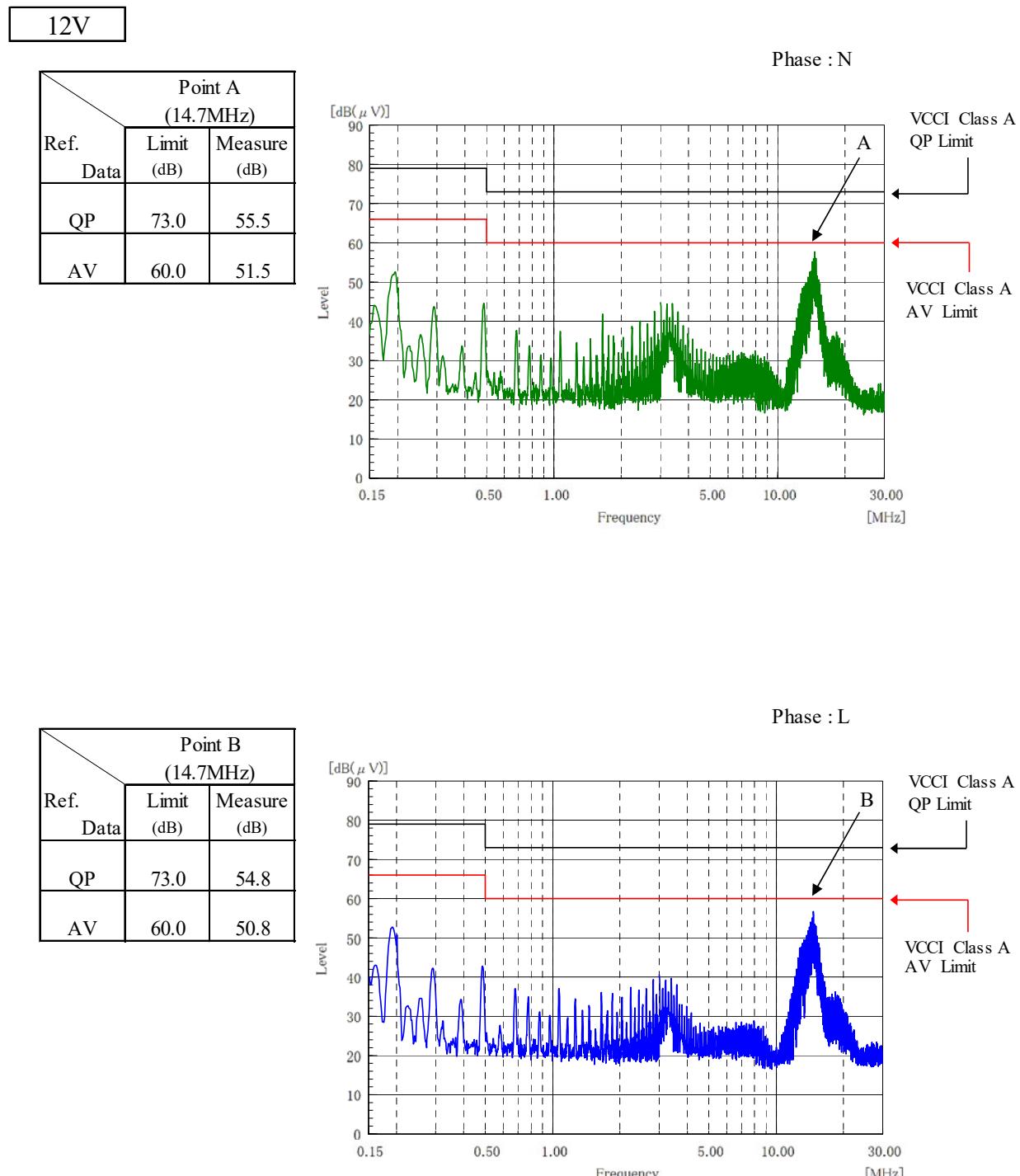
2-18. EMI特性 Electro-Magnetic Interference characteristics

MODEL : RWS1000B/ME

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

雜音端子電圧

Conducted Emission



EN55011-A,EN55032-A,FCC-Aの限界値はVCCI class Aの限界値と同じ

Limit of EN55011-A,EN55032-A,FCC-A are same as its VCCI class A.

MODEL : RWS1000B/ME

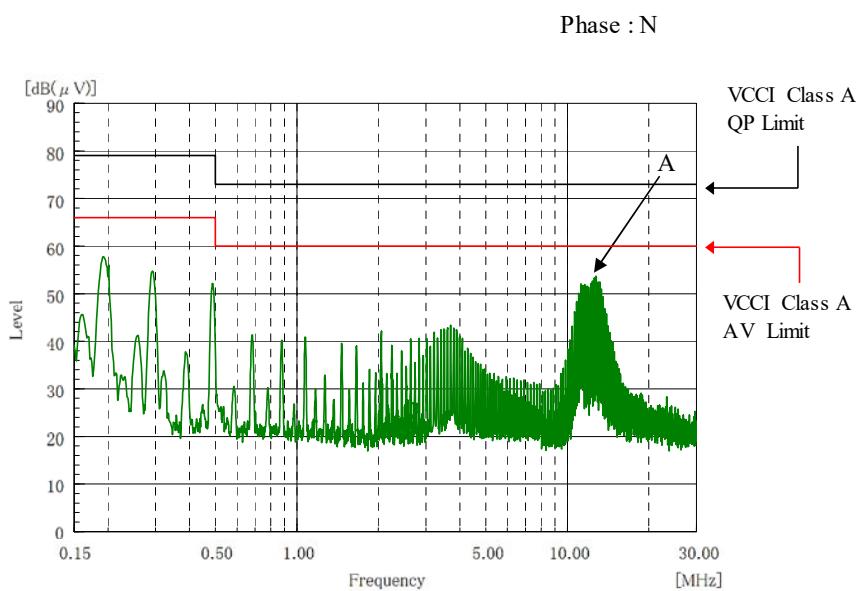
 Conditions Vin : 230 VAC
 Iout : 100 %
 Ta : 25 °C

雜音端子電圧

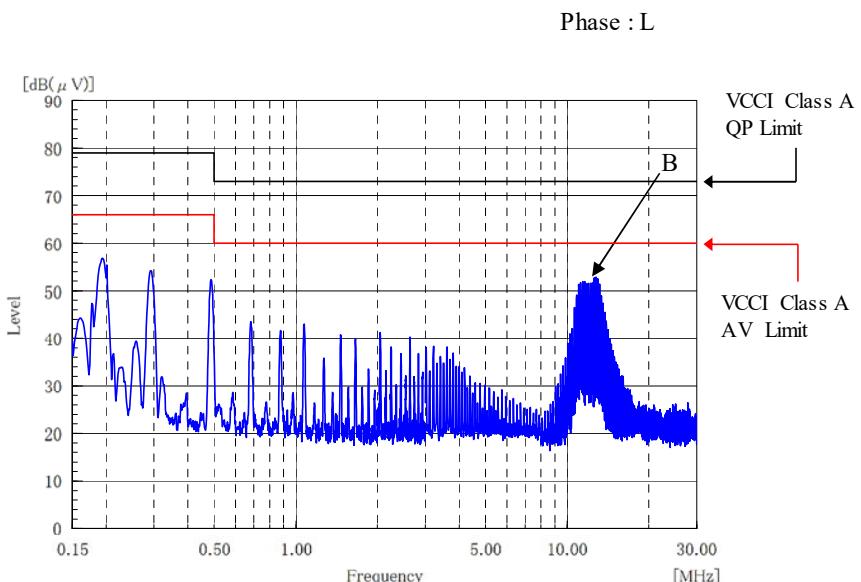
Conducted Emission

24V

Point A (12.8MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	73.0	52.9
AV	60.0	49.7



Point B (12.8MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	73.0	51.9
AV	60.0	47.8



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

MODEL : RWS1000B/ME

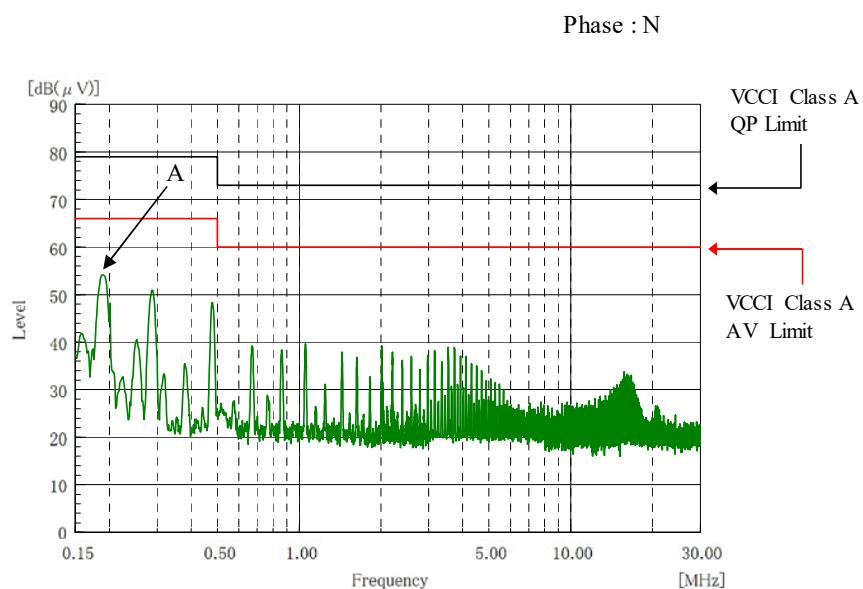
 Conditions Vin : 230 VAC
 Iout : 100 %
 Ta : 25 °C

雜音端子電圧

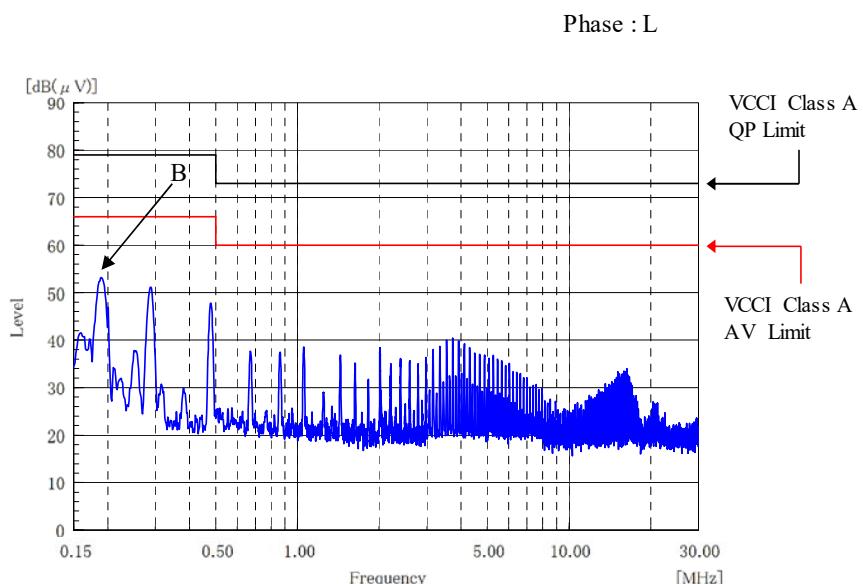
Conducted Emission

48V

Point A (191kHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	79.0	53.5
AV	66.0	48.8



Point B (191kHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	79.0	51.3
AV	66.0	46.8



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

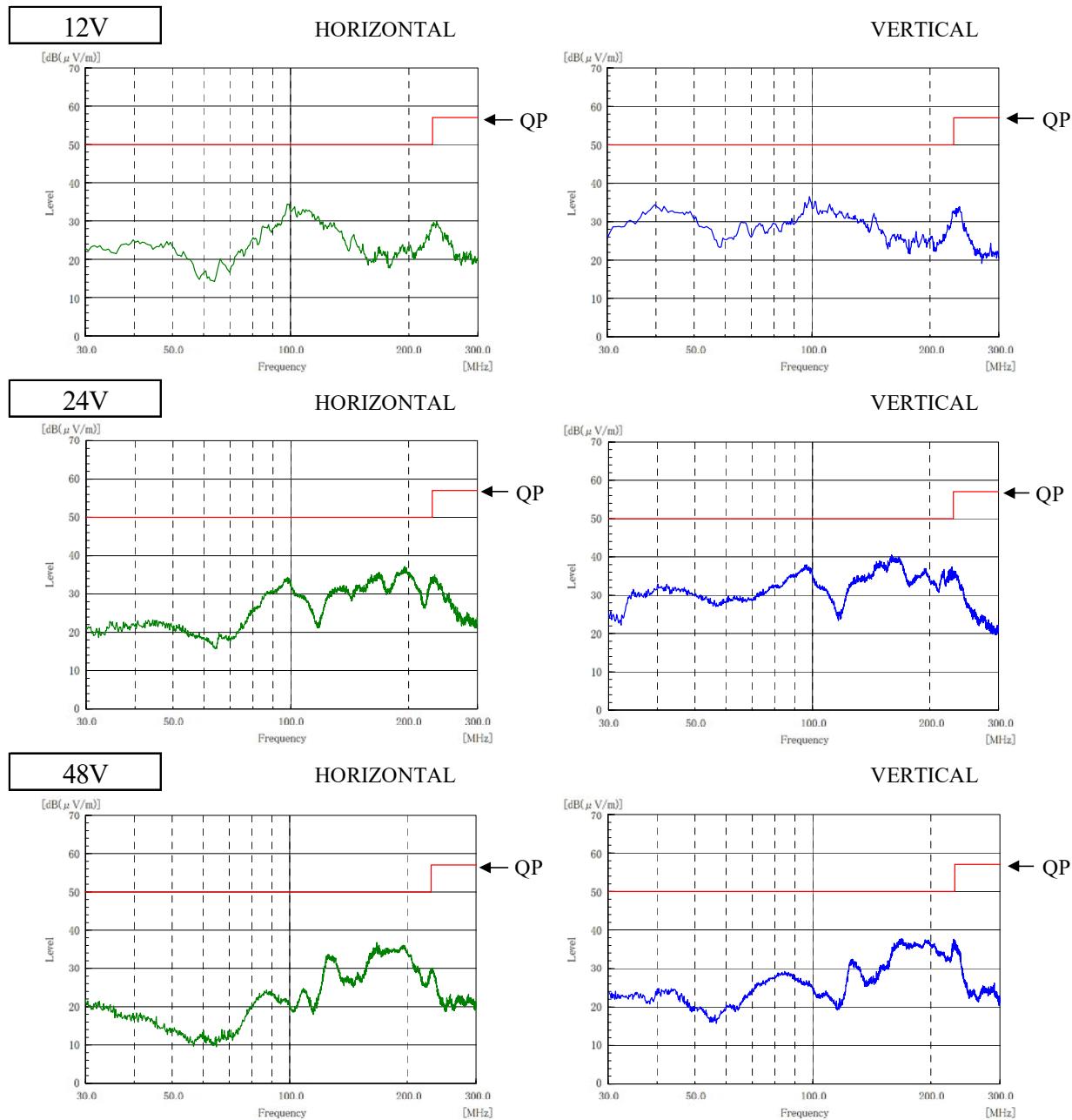
MODEL : RWS1000B/ME

Conditions

Vin : 230 VAC
Iout : 100 %
Ta : 25 °C

雜音電界強度

Radiated Emission



EN55011-A, EN55032-Aの限界値はVCCI class Aの限界値と同じ

Limit of EN55011-A, EN55032-A are same as its VCCI class A.

表示はピーク値

Indication is peak values.

2-19. 無負荷時入力電力、電流 No load input power and current

MODEL : RWS1000B/S

Conditions Istb : 0 %
Ta : 25 °C

12V

Vin	Input power	
	Iout : 0%	Control OFF
90VAC	27.0W	4.4W
100VAC	26.7W	4.2W
200VAC	25.9W	4.3W
265VAC	26.2W	4.4W

Vin	Input current	
	Iout : 0%	Control OFF
90VAC	0.41A	0.13A
100VAC	0.37A	0.14A
200VAC	0.31A	0.25A
265VAC	0.39A	0.34A

24V

Vin	Input power	
	Iout : 0%	Control OFF
90VAC	28.7W	4.0W
100VAC	28.5W	3.9W
200VAC	27.8W	4.0W
265VAC	28.0W	4.1W

Vin	Input current	
	Iout : 0%	Control OFF
90VAC	0.42A	0.12A
100VAC	0.39A	0.13A
200VAC	0.32A	0.25A
265VAC	0.40A	0.33A

48V

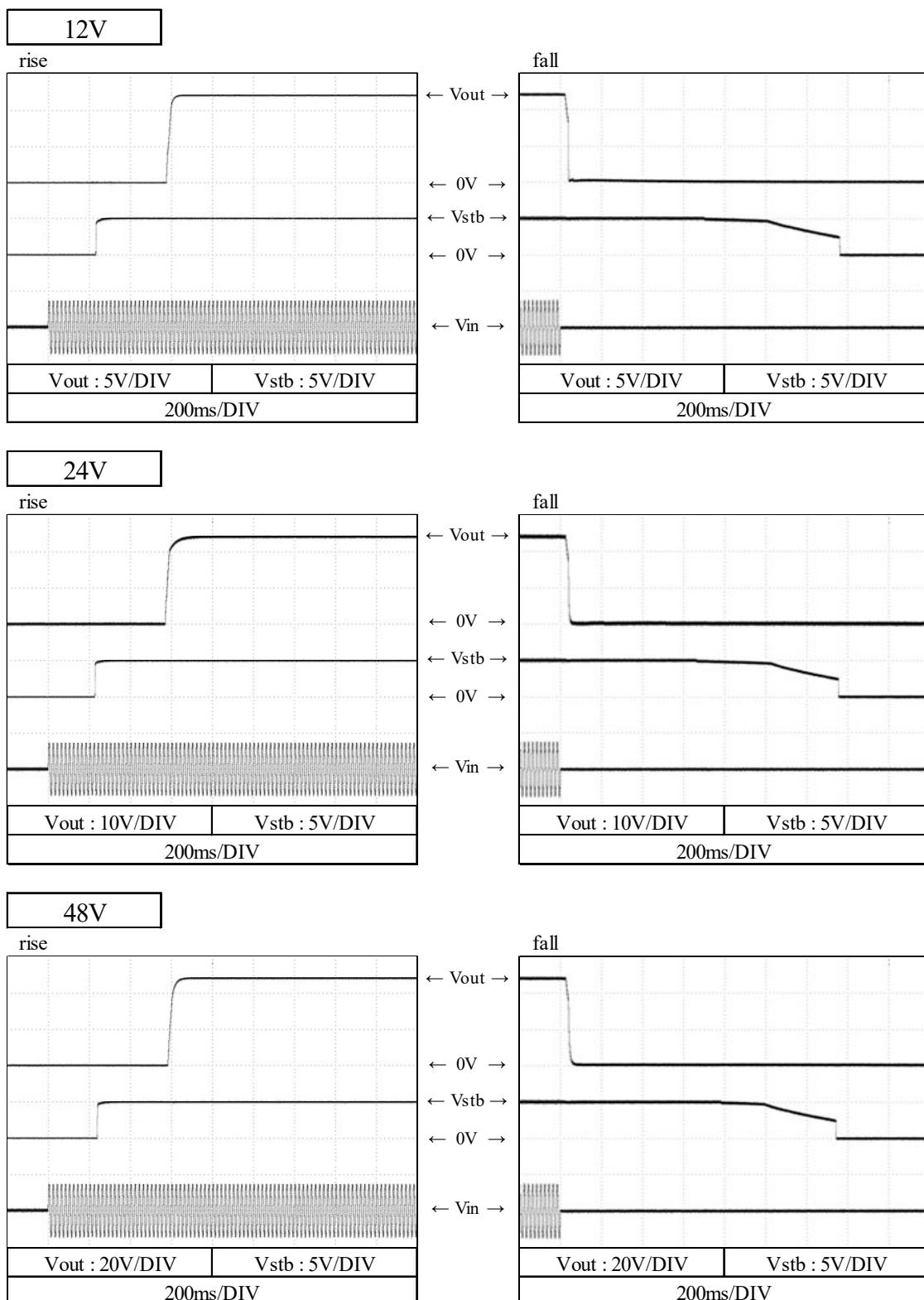
Vin	Input power	
	Iout : 0%	Control OFF
90VAC	30.9W	4.1W
100VAC	30.7W	4.0W
200VAC	29.8W	4.0W
265VAC	30.1W	4.2W

Vin	Input current	
	Iout : 0%	Control OFF
90VAC	0.47A	0.12A
100VAC	0.43A	0.13A
200VAC	0.32A	0.25A
265VAC	0.40A	0.33A

2-20. スタンバイ立ち上がり、立ち下がり特性 Standby rise,fall characteristics

MODEL : RWS1000B/S

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

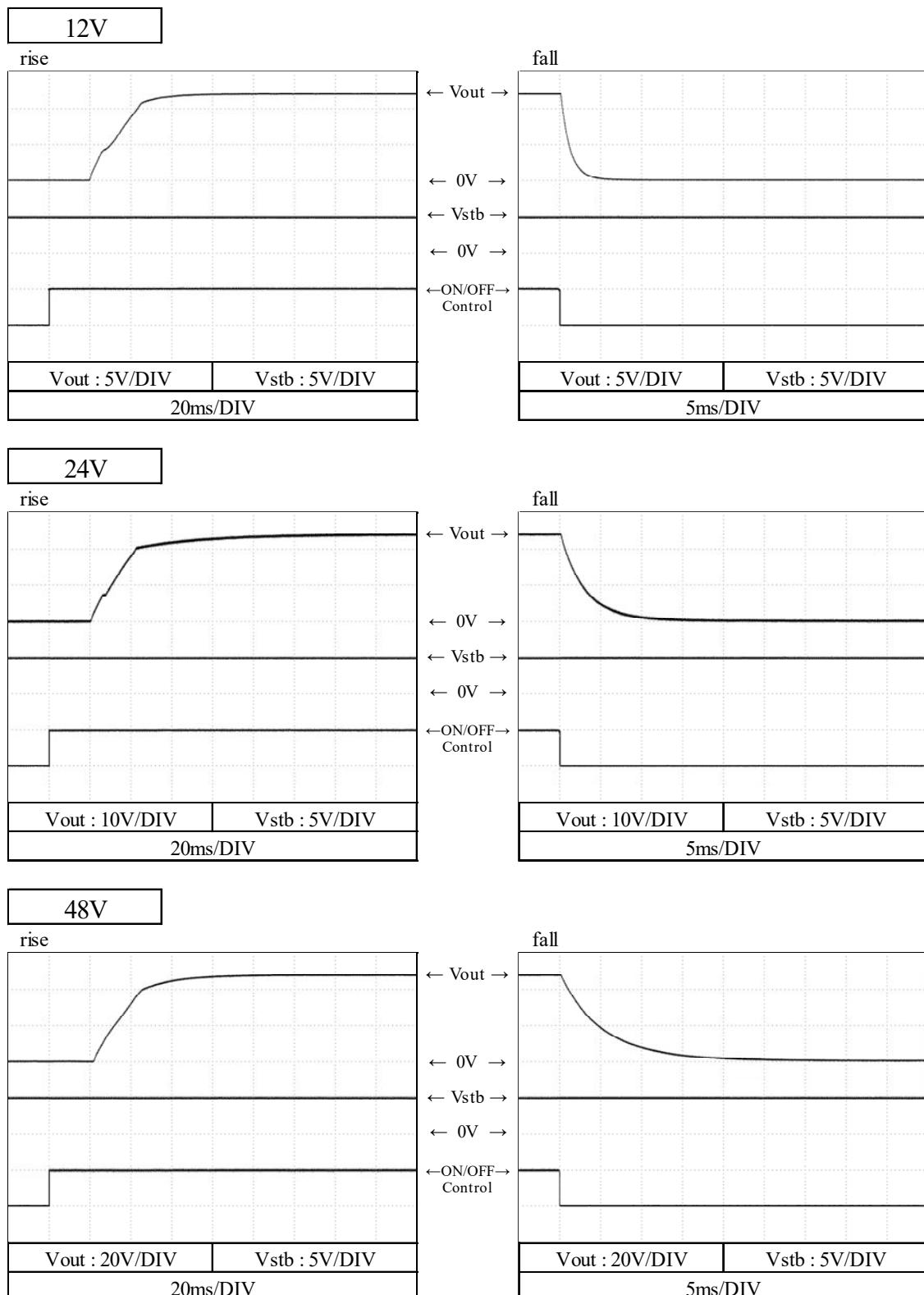


2-21. ON/OFFコントロール時出力立ち上がり、立下がり特性

Output rise, fall characteristics with ON/OFF Control

MODEL : RWS1000B/S

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



2-22. EMI特性 Electro-Magnetic Interference characteristics

MODEL : RWS1000B/S

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

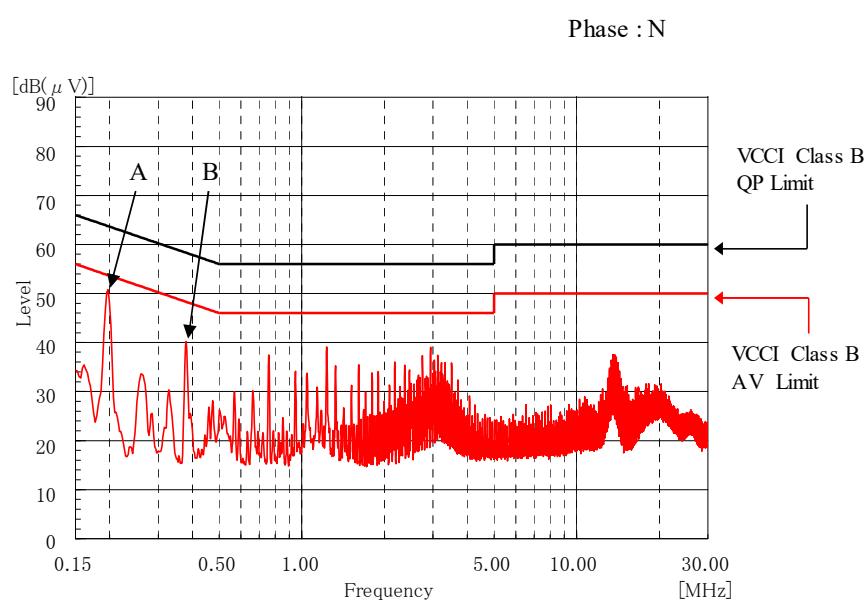
雜音端子電圧

Conducted Emission

12V

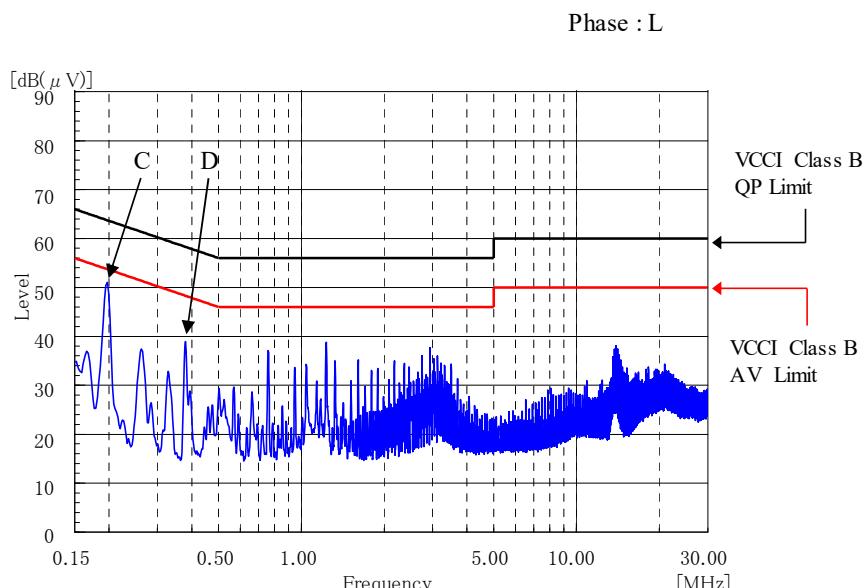
Point A (195kHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	63.8	49.0
AV	53.8	43.0

Point B (380kHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	58.3	40.0
AV	48.3	39.6



Point C (195kHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	63.8	50.0
AV	53.8	43.0

Point D (380kHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	58.3	39.0
AV	48.3	38.1



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.

MODEL : RWS1000B/S

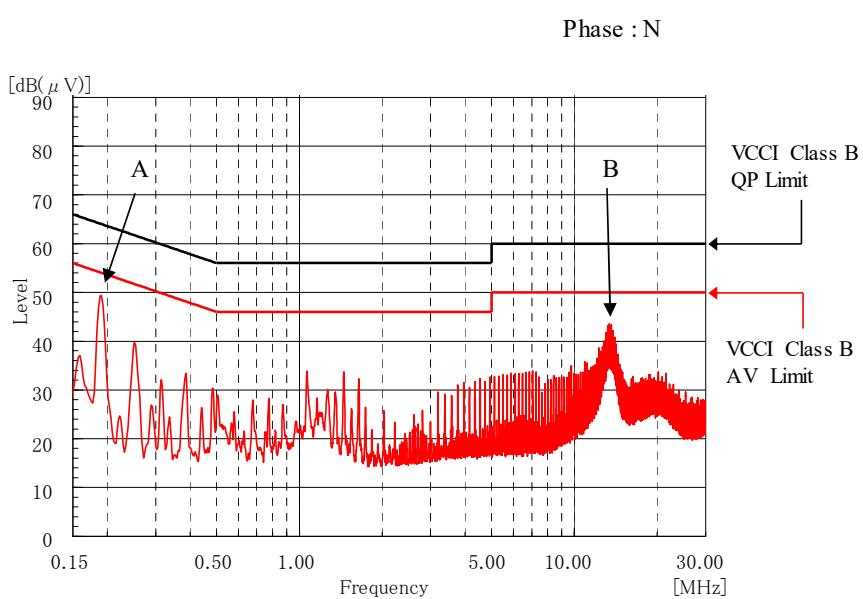
Conditions
 Vin : 230 VAC
 Iout : 100 %
 Istb : 100 %
 Ta : 25 °C

雜音端子電圧
 Conducted Emission

24V

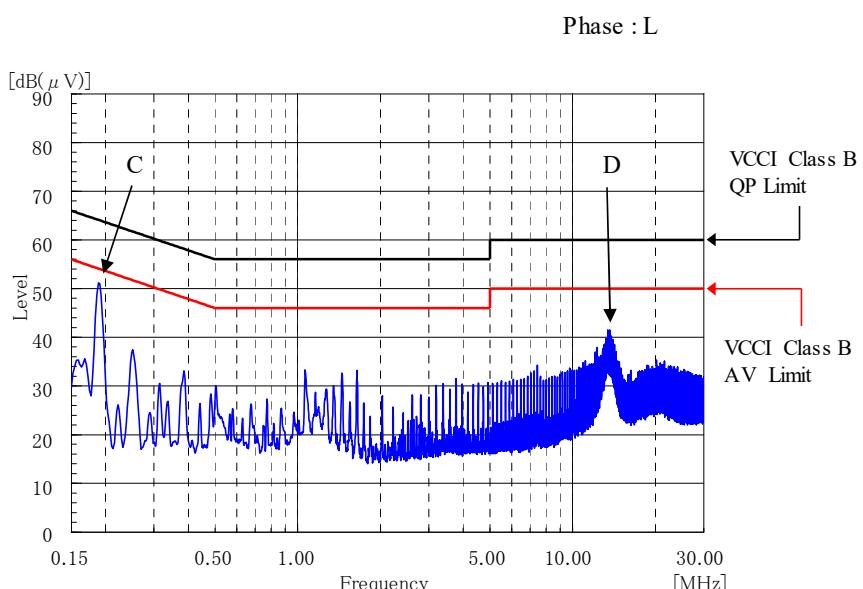
Point A (191kHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	64.0	47.0
AV	54.0	40.8

Point B (13.4MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	60.0	42.0
AV	50.0	39.4



Point C (188kHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	64.1	49.0
AV	54.1	41.4

Point D (13.6MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	60.0	39.0
AV	50.0	36.3



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.

MODEL : RWS1000B/S

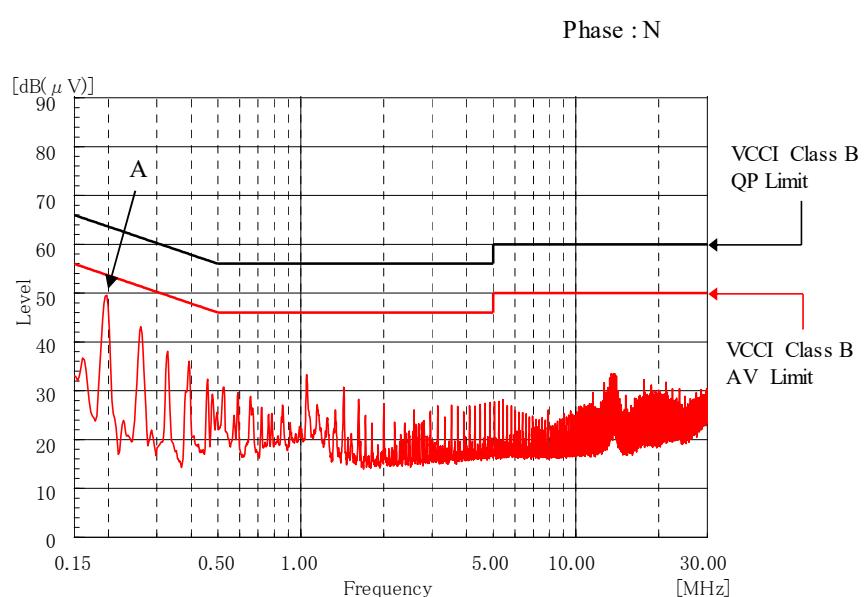
Conditions
 Vin : 230 VAC
 Iout : 100 %
 Istb : 100 %
 Ta : 25 °C

雜音端子電圧

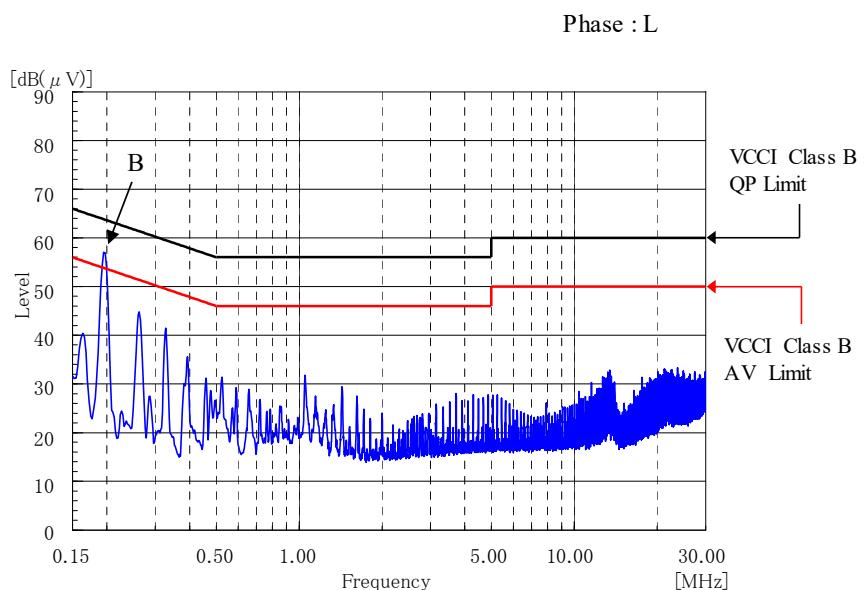
Conducted Emission

48V

Point A (195kHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	63.8	48.0
AV	53.8	40.7



Point B (195kHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	63.8	56.0
AV	53.8	47.1



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.

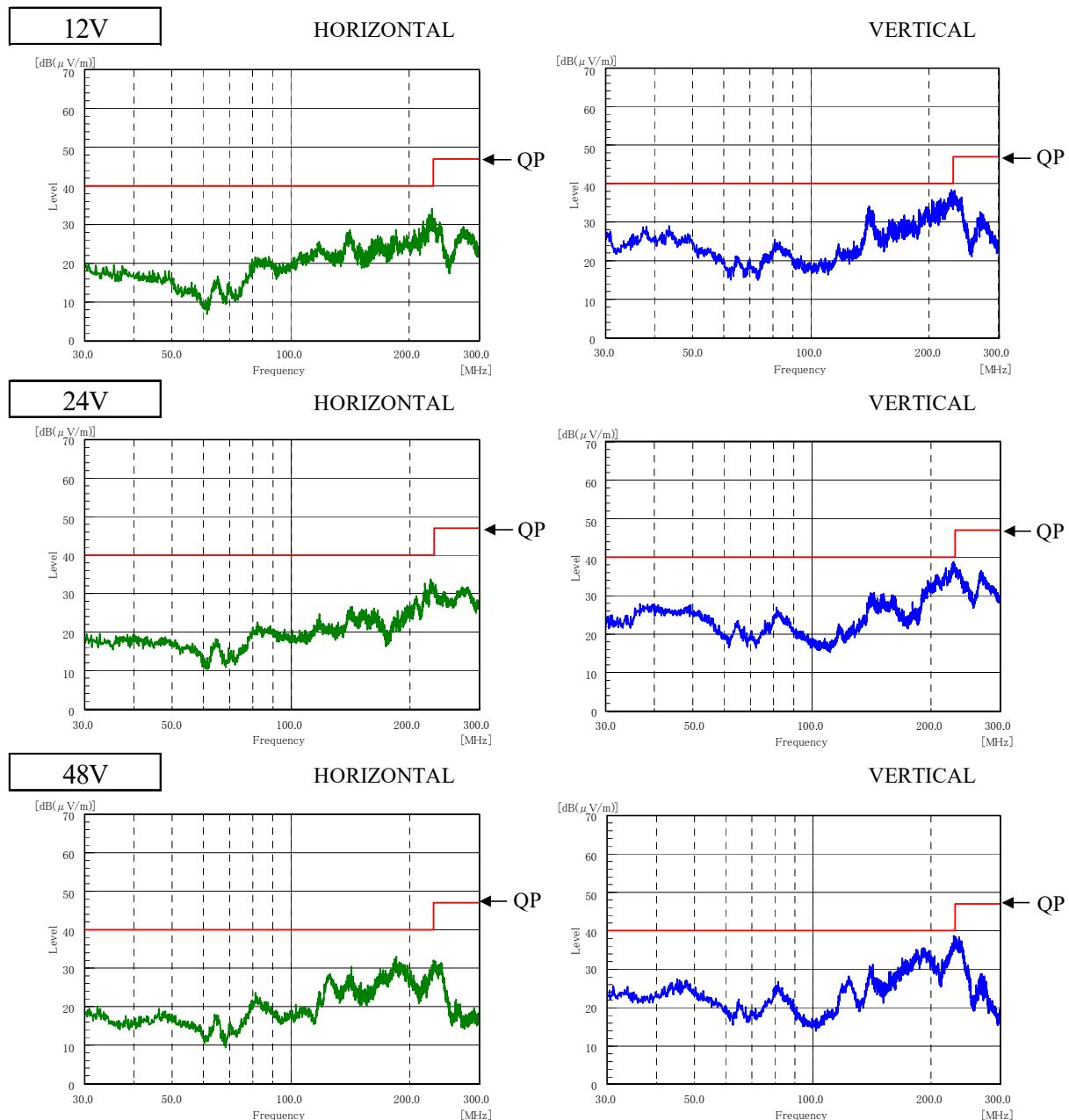
MODEL : RWS1000B/S

Conditions

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

雜音電界強度

Radiated Emission



EN55011-B, EN55032-Bの限界値はVCCI class Bの限界値と同じ

Limit of EN55011-B, EN55032-B are same as its VCCI class B.

表示はピーク値

Indication is peak values.