

GXE600

EVALUATION DATA

型式データ

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使用記号 Terminology used

定義 Definition

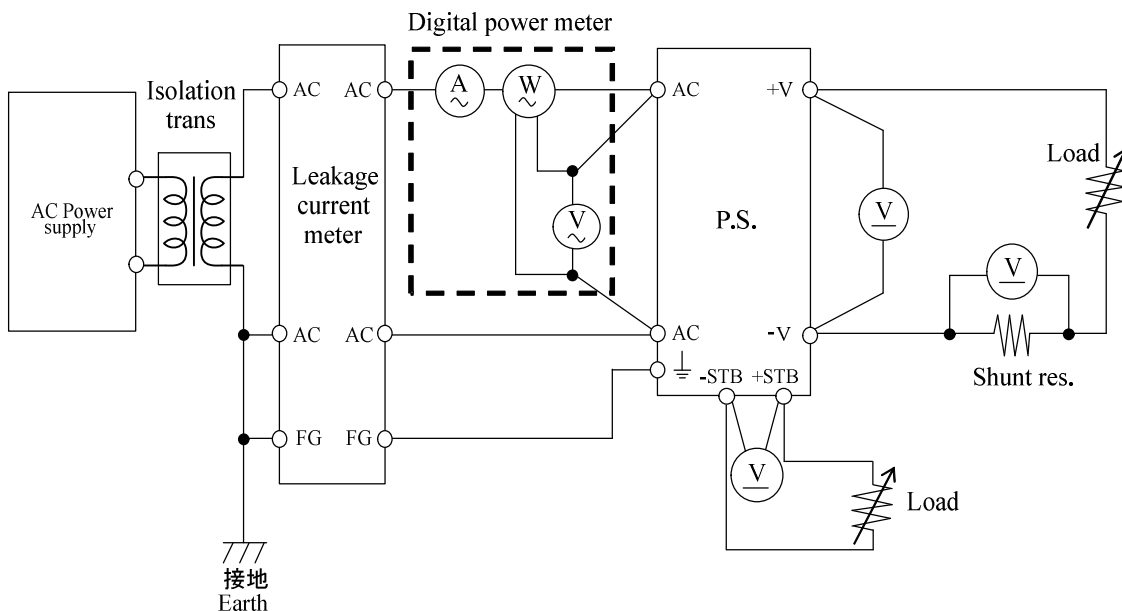
Ta	: 周囲温度	Ambient temperature	f	: 周波数	Frequency
Vin	: 入力電圧	Input voltage	Iin	: 入力電流	Input current
Vout	: 出力電圧	Output voltage	Iout	: 出力電流	Output current
Vstb	: スタンバイ電圧	Standby voltage	Istb	: スタンバイ電流	Standby current

※ 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.

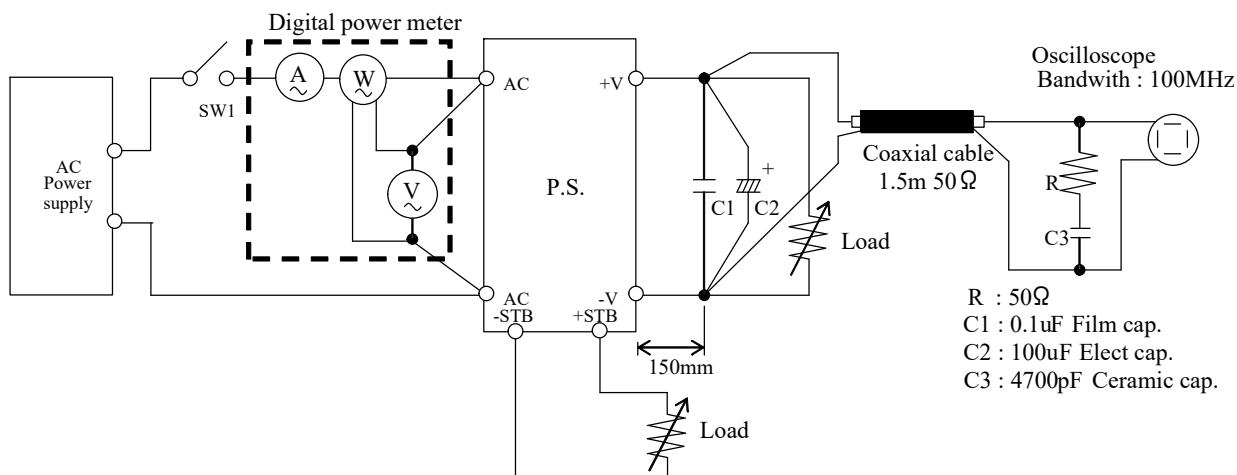
測定回路3 Circuit 3 used for determination

- リーク電流特性 Leakage current characteristics



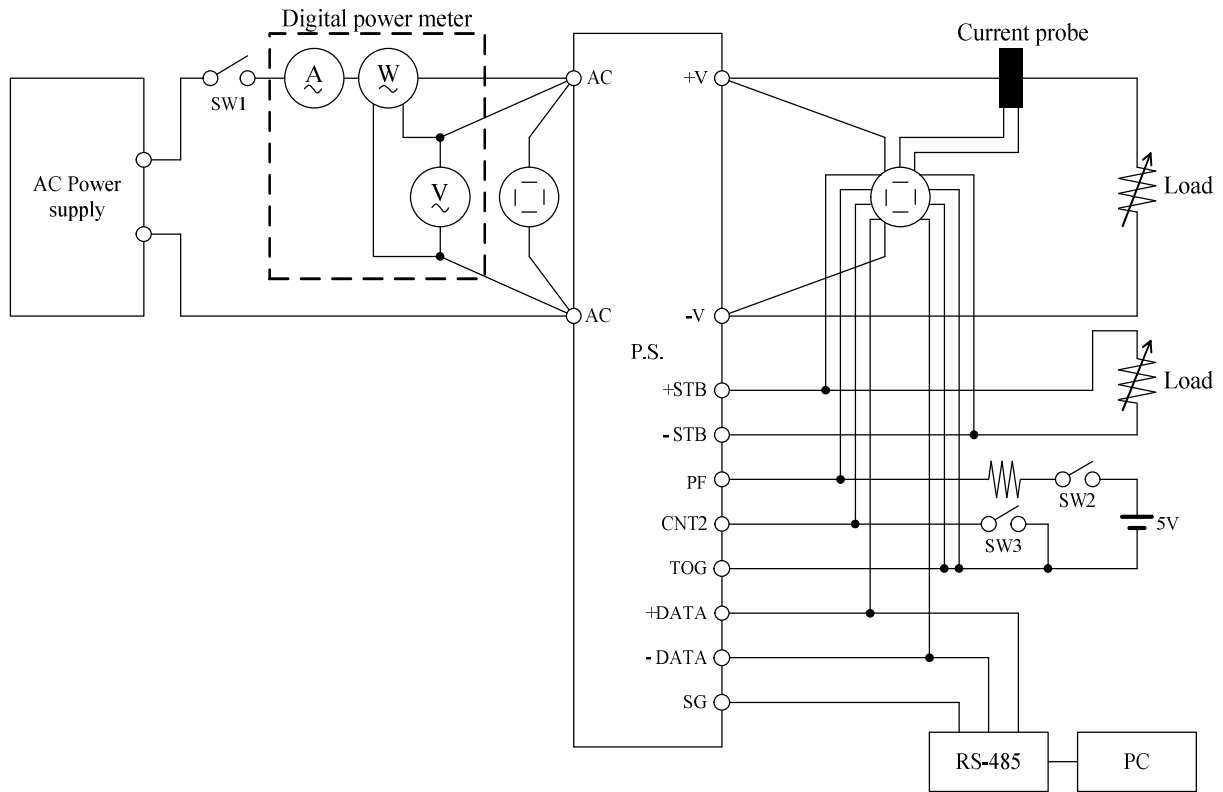
測定回路4 Circuit 4 used for determination

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



測定回路5 Circuit 5 used for determination

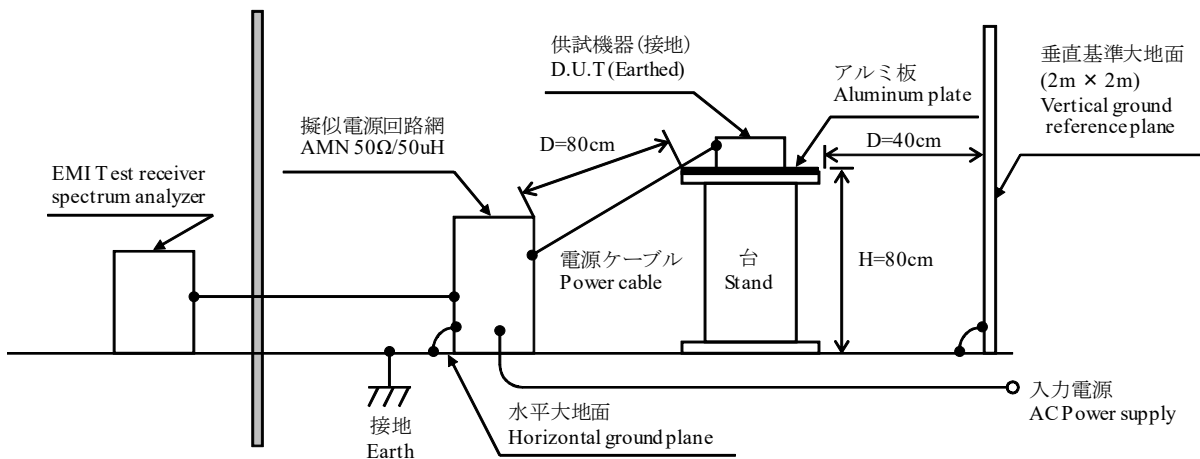
- ON/OFFコントロール時出力立ち上がり、立下がり特性
Output rise, fall characteristics with ON/OFF Control
- 出力電流対CC_PF信号特性
Output current vs. CC_PF Signal characteristics



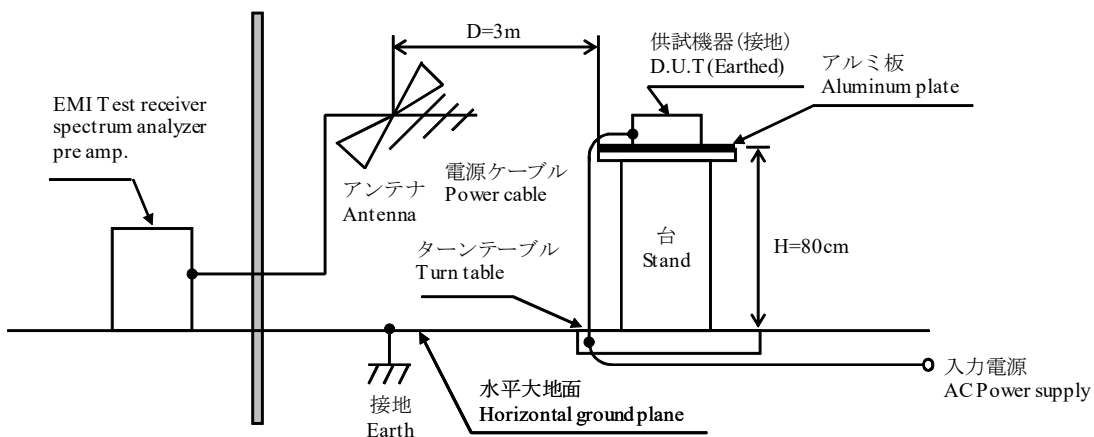
測定構成 Configuration used for determination

- 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 / 3335
5	CURRENT PROBE	YOKOGAWA ELECT.	701928 / 701930
6	DYNAMIC DUMMY LOAD	KIKUSUI	PLZ1004W
7	DYNAMIC DUMMY LOAD	TAKASAGO	FK-200L / FK-600L / FK-1000L
8	DUMMY LOAD	PCN	RHF250 SERIES
9	CVCF	KIKUSUI	PCR2000W / PCR4000LA
10	LEAKAGE CURRENT METER	HIOKI	ST5540
11	CONTROLLED TEMP. CHAMBER	ESPEC	PL-4SP
12	EMI TEST RECEIVER / SPECTRUM ANALYZER	ROHDE & SCHWARZ	ESR3
13	PRE AMP.	SONOMA	310N
14	AMN	SCHWARZBECK	NNLK8121
15	ANTENNA	TESEQ	CBL6111D
16	HARMONIC / FLICKER ANALYZER	KIKUSUI	KHA1000
17	SINGLE-PHASE MASTER	NF	4420
18	REFERENCE IMPEDANCE NETWORK 20A	NF	4150
19	MULTI OUTLET UNIT	KIKUSUI	OT01-KHA

1-3. 評価条件 Test condition

* 入力電圧85～170VACは強制空冷時のデータです。

The data of input voltage 85 ~170VAC is forced air cooling.

条件に特に記載のない場合、電源のすべてのレジスタデータは工場出荷時の設定です。

Unless otherwise indicated in the conditions, all register data of power supply are factory preset.

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

24V

1. Regulation - line and load

Condition Ta : 25 °C

Istb : 100 %

Iout \ Vin	85VAC	100VAC	200VAC	265VAC	Line regulation	
0%	24.012V	24.022V	24.017V	24.024V	12mV	0.050%
50%	23.999V	24.002V	24.005V	24.005V	6mV	0.025%
100%	23.998V	23.998V	24.002V	24.004V	6mV	0.025%
Load regulation	14mV	24mV	15mV	20mV		
	0.058%	0.100%	0.063%	0.083%		

2. Temperature drift

Conditions Vin : 100 VAC

Iout : 100 %

Istb : 100 %

Ta	-20°C	+25°C	+50°C	Temperature stability	
Vout	24.047V	23.998V	23.971V	76mV	0.317%

3. Start up voltage and Drop out voltage

Conditions Ta : 25 °C

Iout : 100 %

Istb : 100 %

Start up voltage (Vin)	76VAC
Drop out voltage (Vin)	68VAC

48V

1. Regulation - line and load

Condition Ta : 25 °C

Istb : 100 %

Iout \ Vin	85VAC	100VAC	200VAC	265VAC	Line regulation	
0%	48.054V	48.045V	48.034V	48.029V	25mV	0.052%
50%	48.022V	48.004V	48.011V	48.015V	18mV	0.038%
100%	48.012V	48.018V	48.016V	48.010V	8mV	0.017%
Load regulation	42mV	41mV	23mV	19mV		
	0.088%	0.085%	0.048%	0.040%		

2. Temperature drift

Conditions Vin : 100 VAC

Iout : 100 %

Istb : 100 %

Ta	-20°C	+25°C	+50°C	Temperature stability	
Vout	48.122V	48.018V	47.964V	158mV	0.329%

3. Start up voltage and Drop out voltage

Conditions Ta : 25 °C

Iout : 100 %

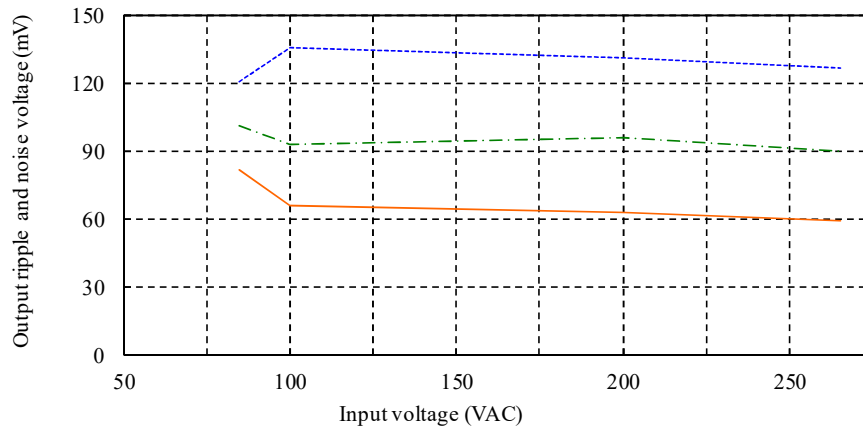
Istb : 100 %

Start up voltage (Vin)	77VAC
Drop out voltage (Vin)	70VAC

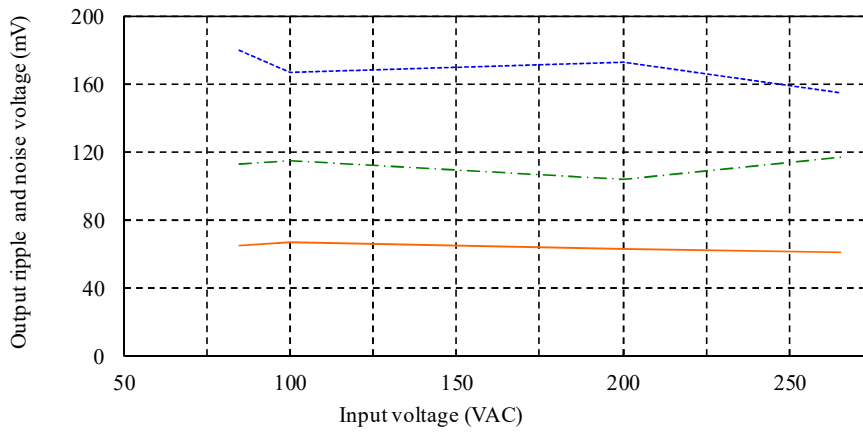
(2) 出力リップル、ノイズ電圧対入力電圧 Output ripple and noise voltage vs. Input voltage

Conditions
 Iout : 100 %
 Istb : 100 %
 Ta : -20 °C
 0 °C
 50 °C

24V



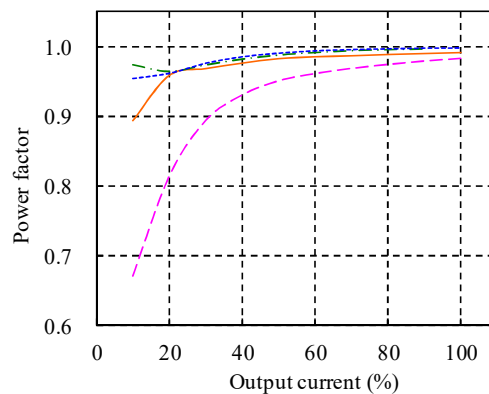
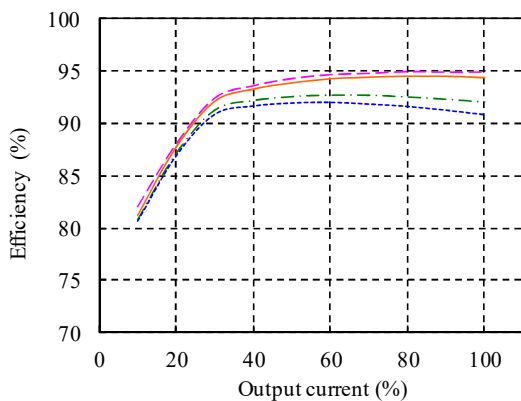
48V



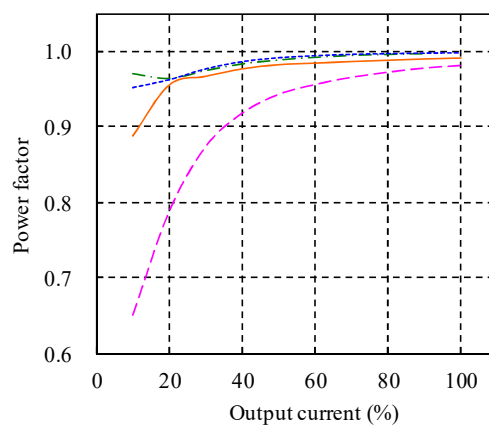
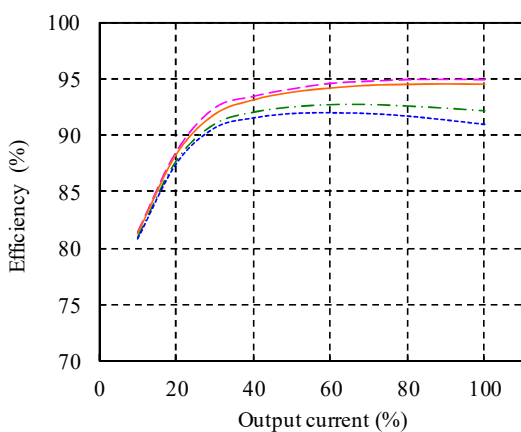
(3) 効率・力率対出力電流 Efficiency and Power factor vs. Output current

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

24V



48V

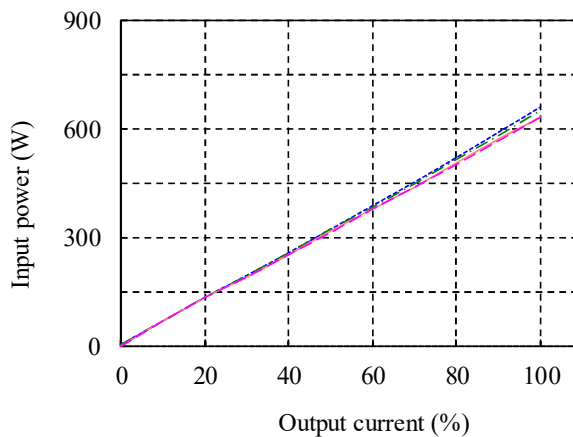


(4) 入力電力対出力電流 Input power vs. Output current

Conditions Vin : 85 VAC ---
 100 VAC ---
 200 VAC ---
 265 VAC ---
 Istb : 0 %
 Ta : 25 °C

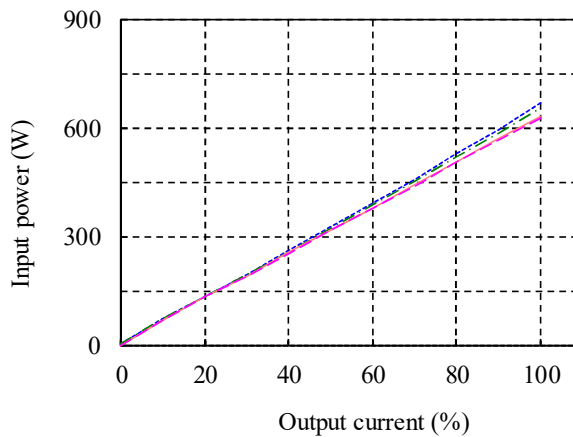
24V

Vin	Input power	
	Iout : 0%	Control OFF (Sleep mode)
85VAC	3.5W	0.8W
100VAC	3.4W	0.8W
200VAC	2.3W	1.2W
265VAC	2.4W	1.6W



48V

Vin	Input power	
	Iout : 0%	Control OFF (Sleep mode)
85VAC	3.4W	0.7W
100VAC	3.5W	0.8W
200VAC	2.4W	1.1W
265VAC	2.5W	1.5W

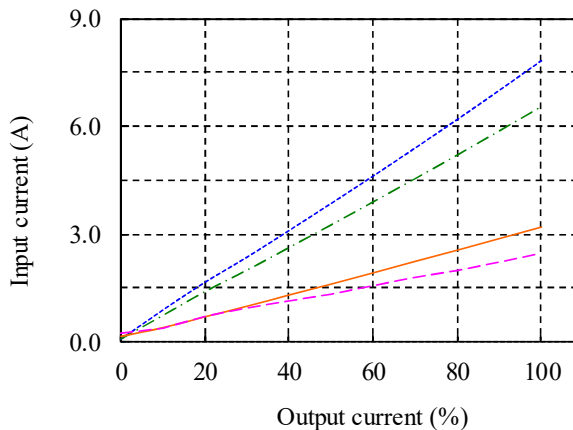


(5) 入力電流対出力電流 Input current vs. Output current

Conditions Vin : 85 VAC ---
 100 VAC - - -
 200 VAC ———
 265 VAC - · - · -
 Istb : 0 %
 Ta : 25 °C

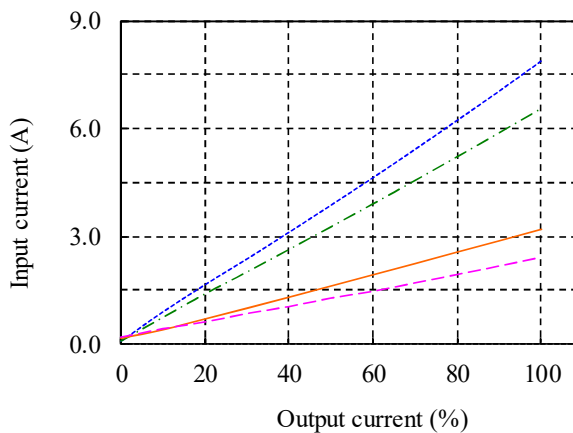
24V

Vin	Input power	
	Iout : 0%	Control OFF (Sleep mode)
85VAC	0.08A	0.08A
100VAC	0.09A	0.09A
200VAC	0.16A	0.16A
265VAC	0.24A	0.21A



48V

Vin	Input power	
	Iout : 0%	Control OFF (Sleep mode)
85VAC	0.09A	0.08A
100VAC	0.09A	0.09A
200VAC	0.16A	0.16A
265VAC	0.21A	0.21A

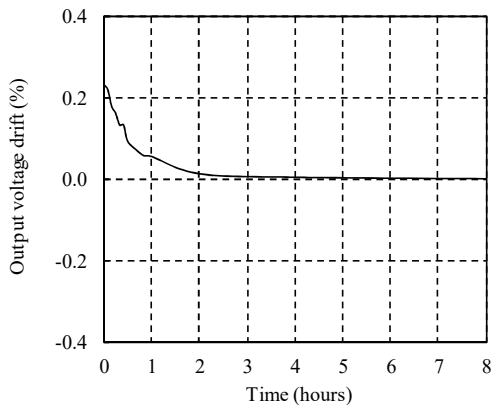


2-2. 通電ドリフト特性

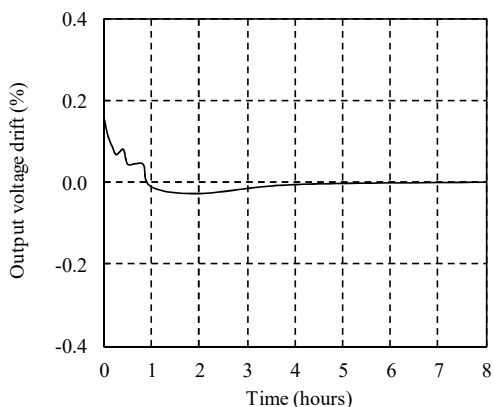
Warm up voltage drift characteristics

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

24V



48V

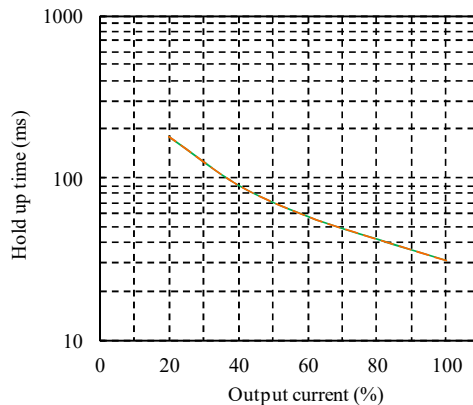


2-3. 出力保持時間特性

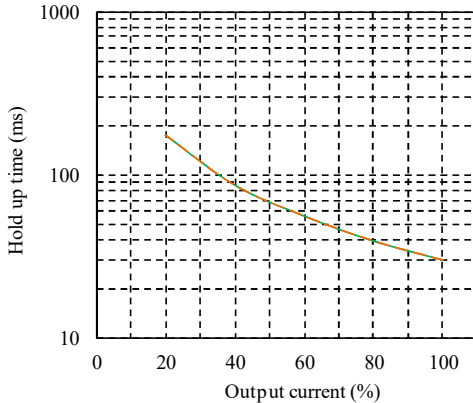
Hold up time characteristics

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

24V

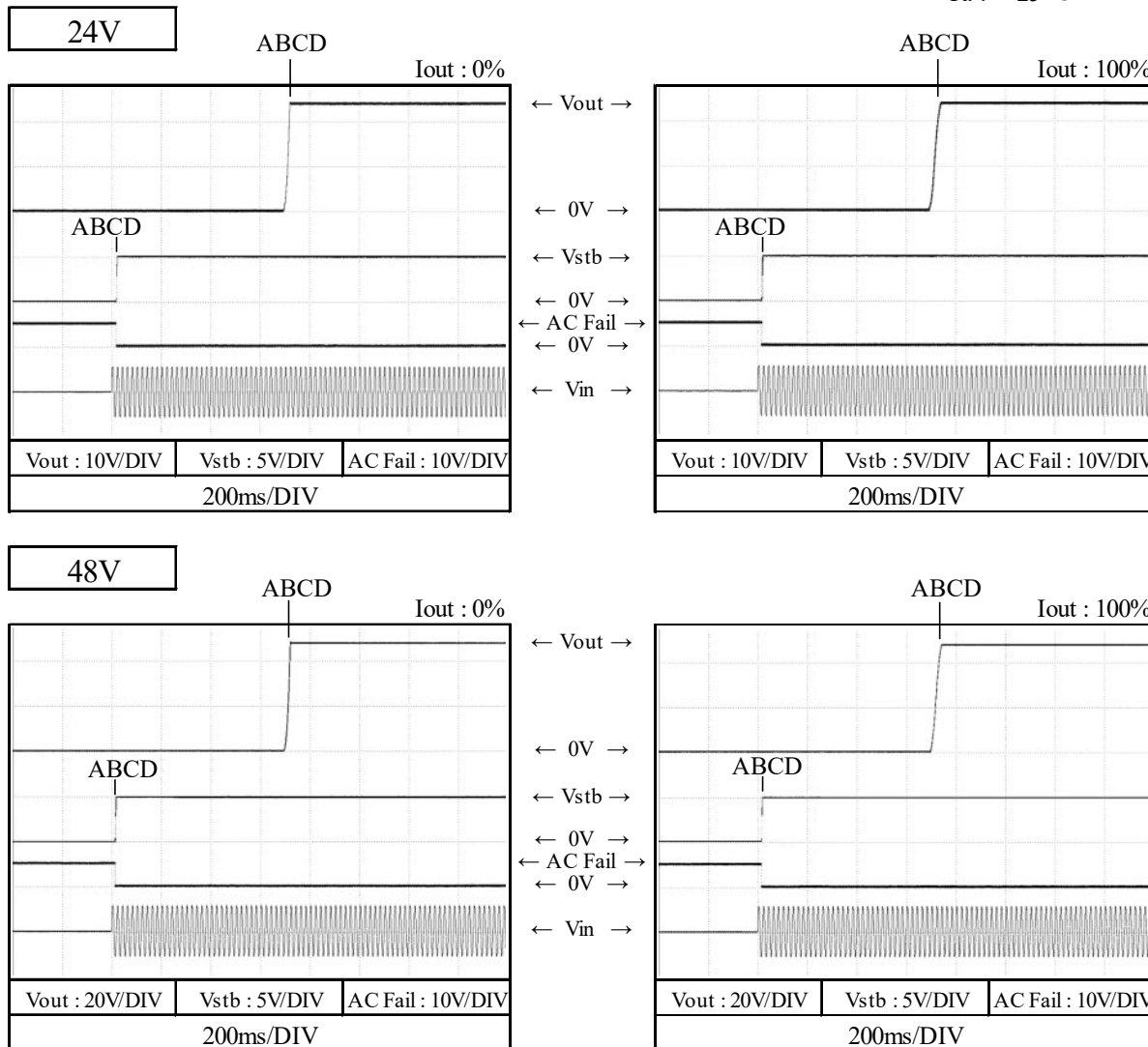


48V



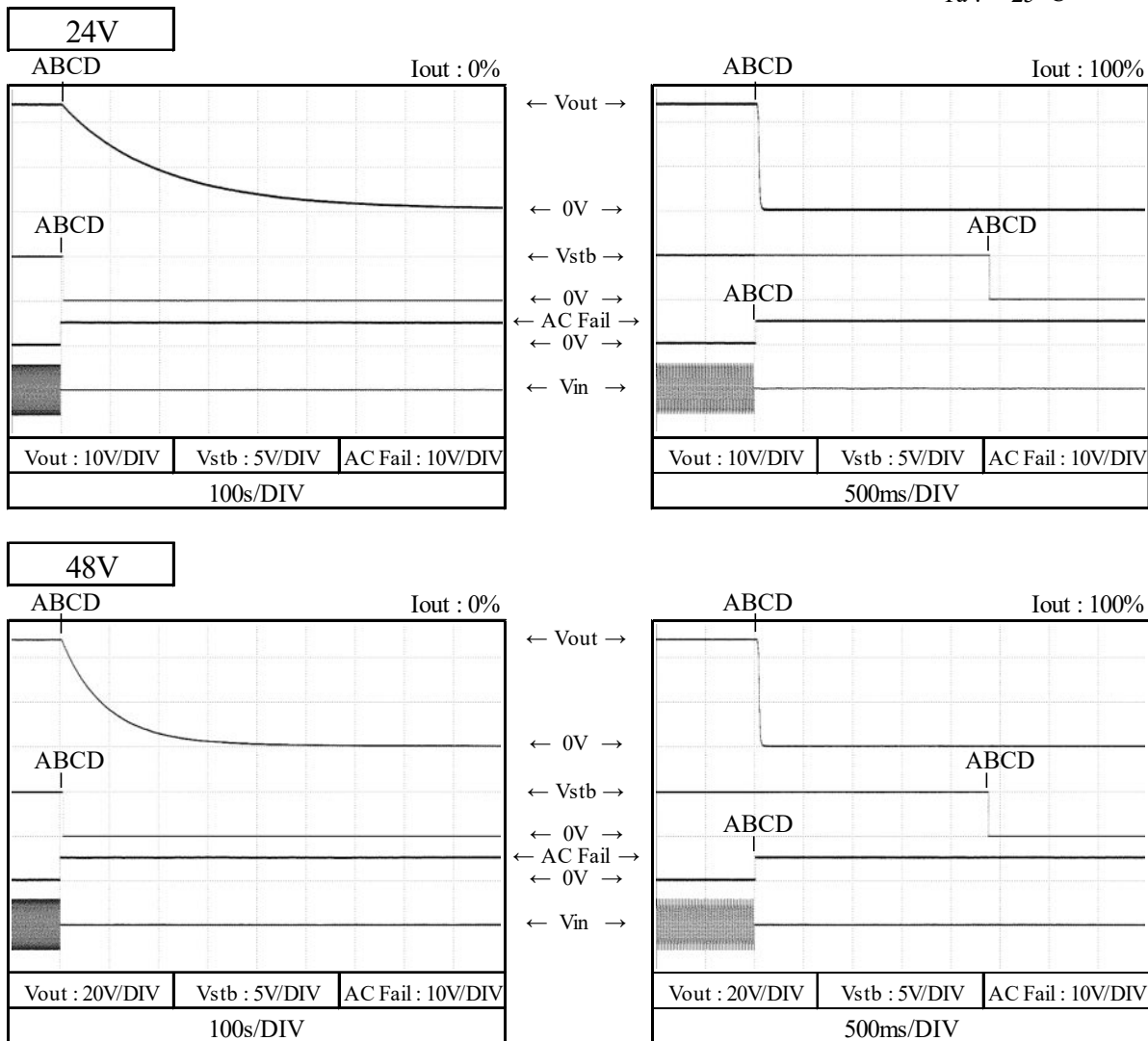
2-4. 出力電圧立ち上がり特性 Output voltage rise characteristics

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



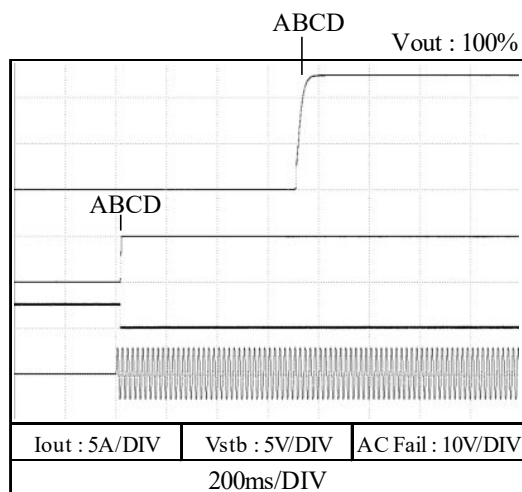
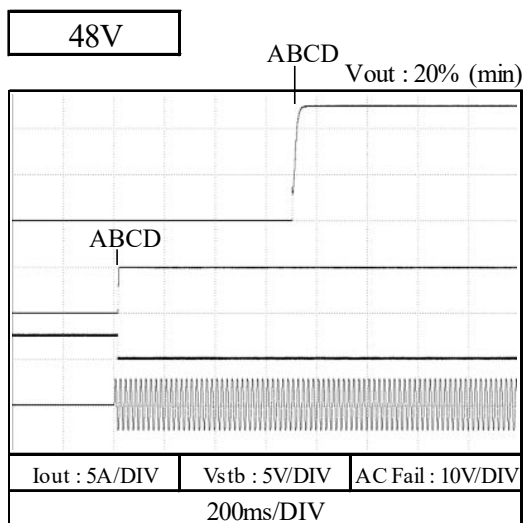
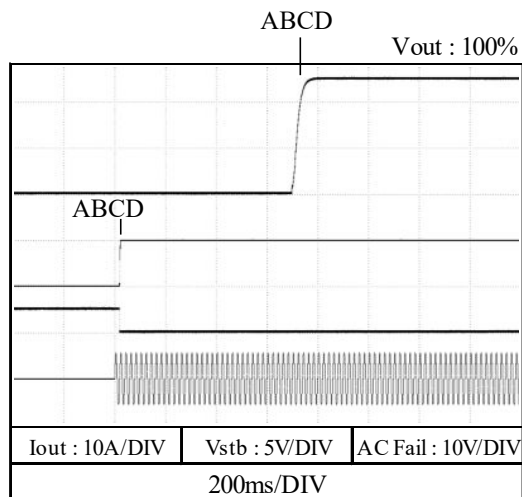
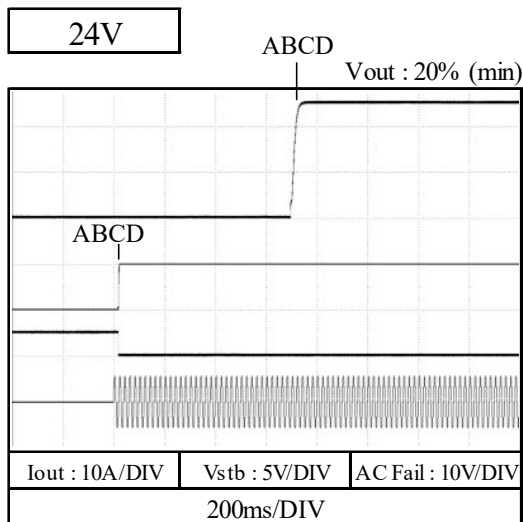
2-5. 出力電圧立ち下がり特性 Output voltage fall characteristics

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



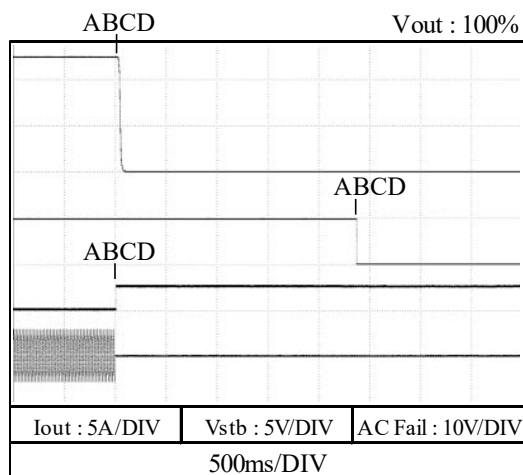
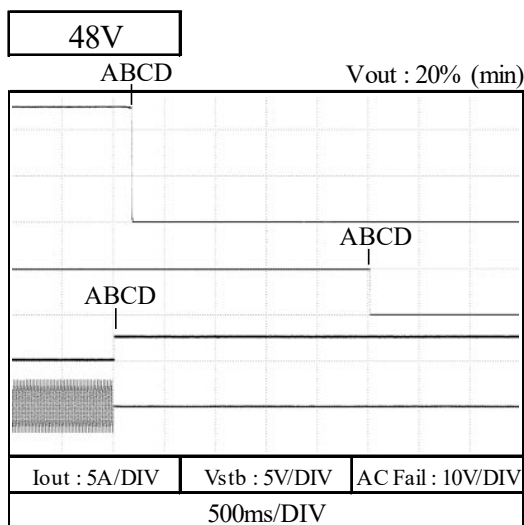
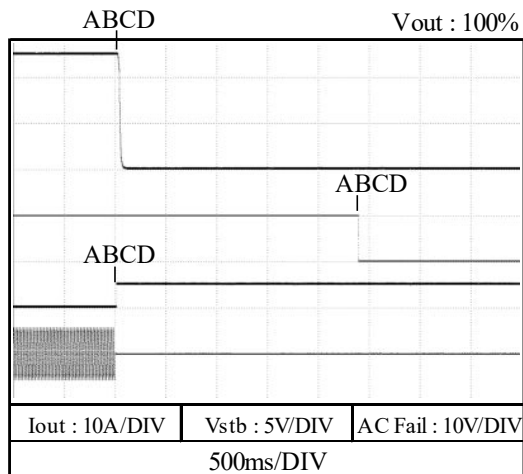
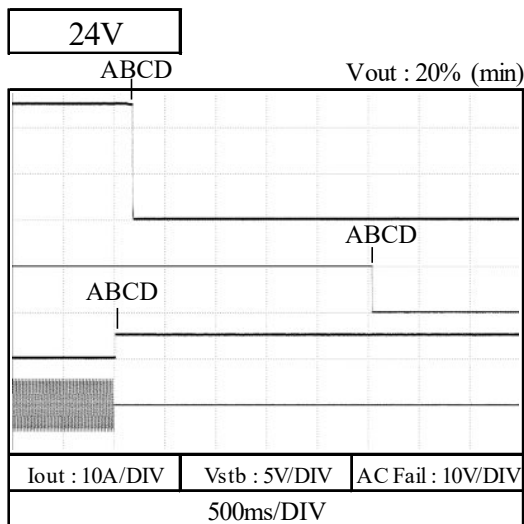
2-6. 出力電流立ち上がり特性 Output current rise characteristics

Conditions V_{in} : 85 VAC (A)
 100 VAC (B)
 200 VAC (C)
 265 VAC (D)
 CC Reference : 100 %
 Istb : 100 %
 T_a : 25 °C



2-7. 出力電流立ち下がり特性 Output current fall characteristics

Conditions V_{in} : 85 VAC (A)
 100 VAC (B)
 200 VAC (C)
 265 VAC (D)
 CC Reference : 100 %
 I_{stb} : 100 %
 T_a : 25 °C



2-8. 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

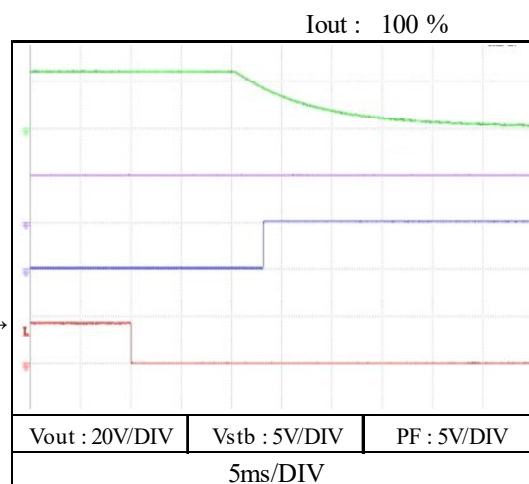
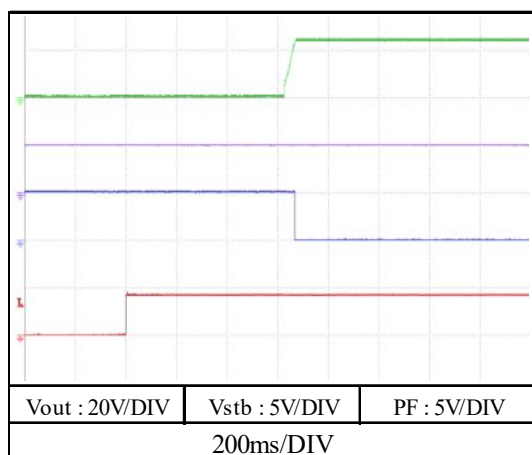
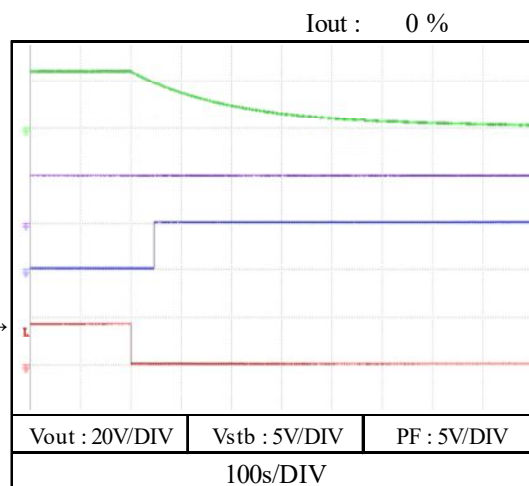
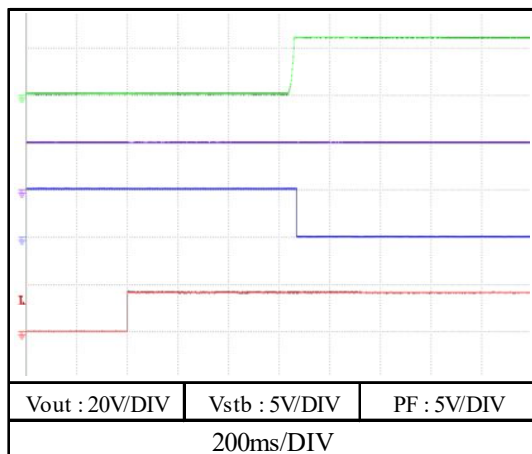
(a)リモートON/OFFコントロール端子によるON/OFF
ON/OFF control by remote ON/OFF control terminal

Conditions V_{in} : 100 VAC

I_{stb} : 100 %

T_a : 25 °C

24V



2-8. 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

(a)リモートON/OFFコントロール端子によるON/OFF

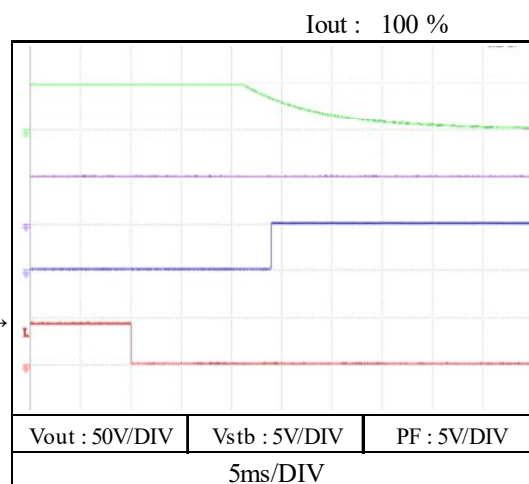
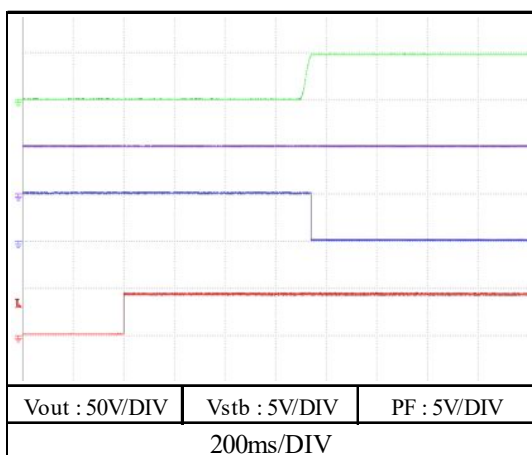
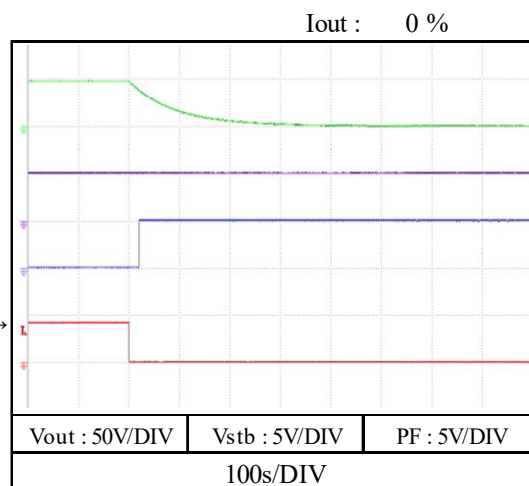
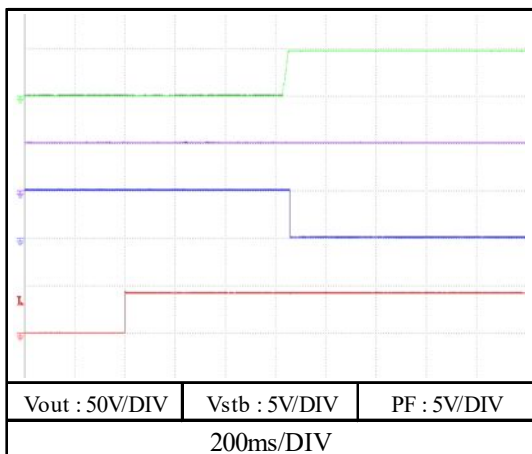
ON/OFF control by remote ON/OFF control terminal

Conditions V_{in} : 100 VAC

I_{stb} : 100 %

T_a : 25 °C

48V



2-8. 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

(b)RS-485通信によるON/OFF

ON/OFF control by RS-485

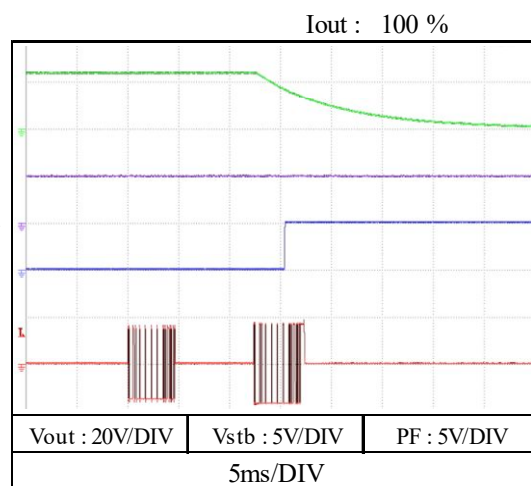
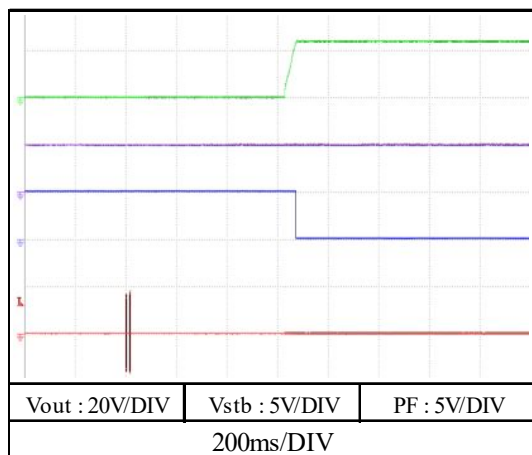
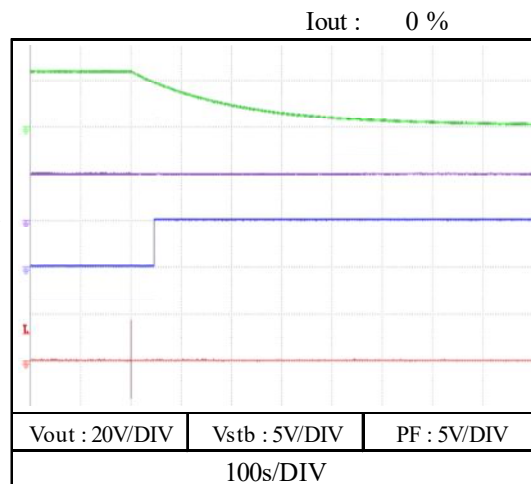
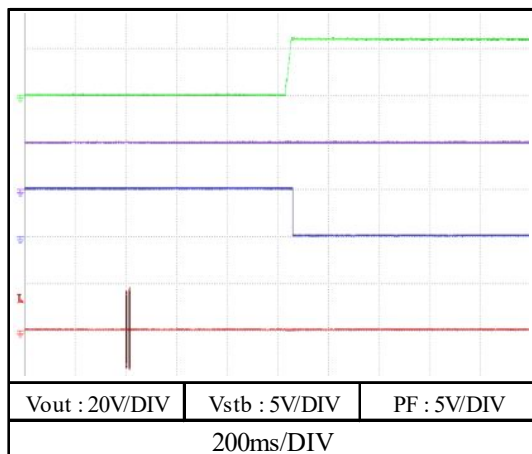
Conditions V_{in} : 100 VAC

I_{stb} : 100 %

T_a : 25 °C

CNT Mode : Digital CNT

24V



2-8. 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

(b)RS-485通信によるON/OFF

ON/OFF control by RS-485

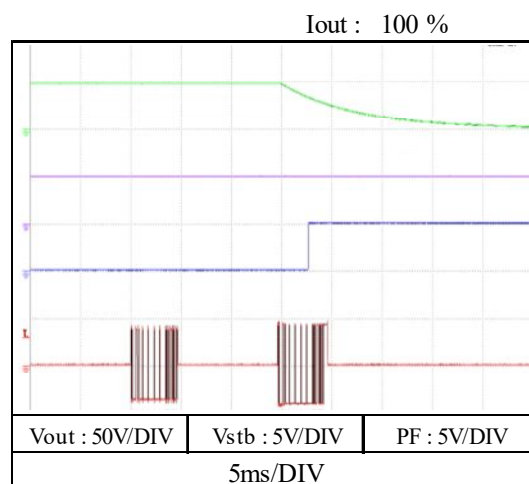
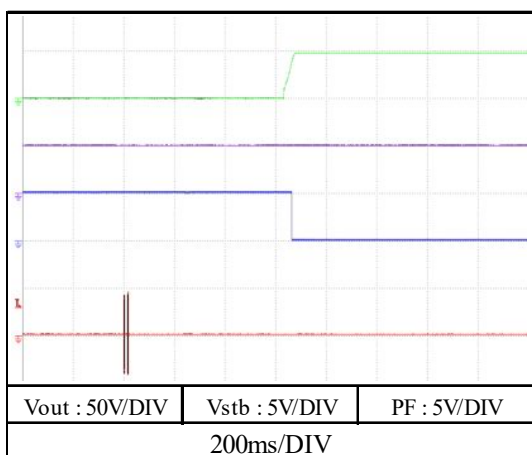
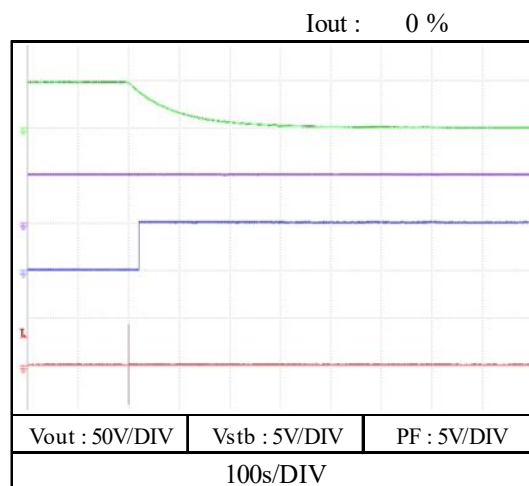
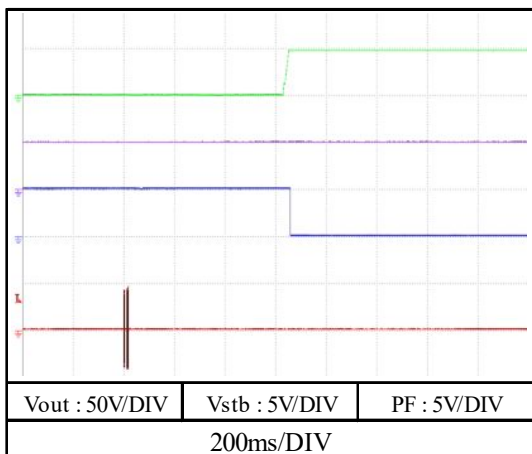
Conditions V_{in} : 100 VAC

I_{stb} : 100 %

T_a : 25 °C

CNT Mode : Digital CNT

48V



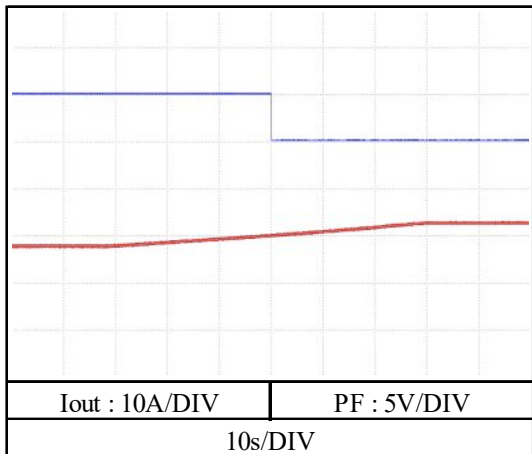
2-9. 出力電流対CC_PF信号特性

Output current vs. CC_PF Signal characteristics

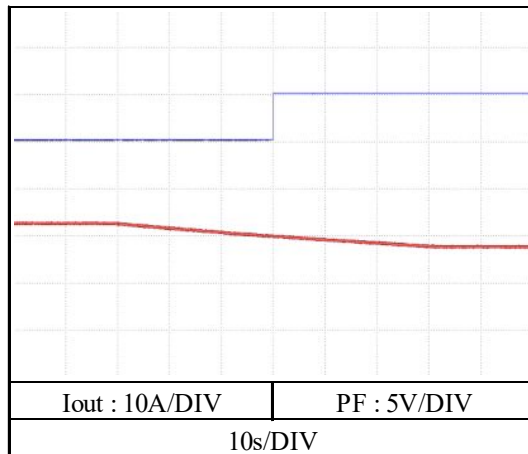
Conditions Vin : 100 VAC
 Istb : 100 %
 Ta : 25 °C
 PF Mode : CC
 PF Reference : 80 %

24V

Iout : 70% → 90%

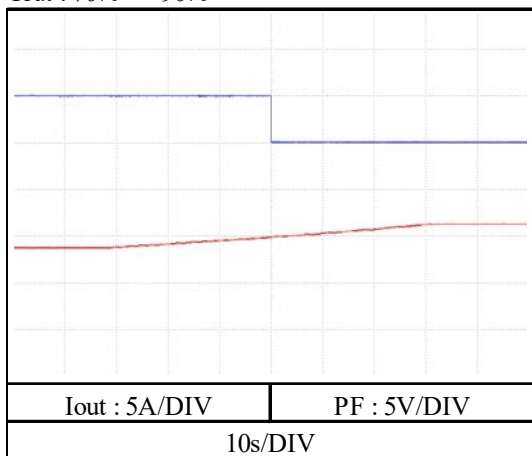


Iout : 90% → 70%

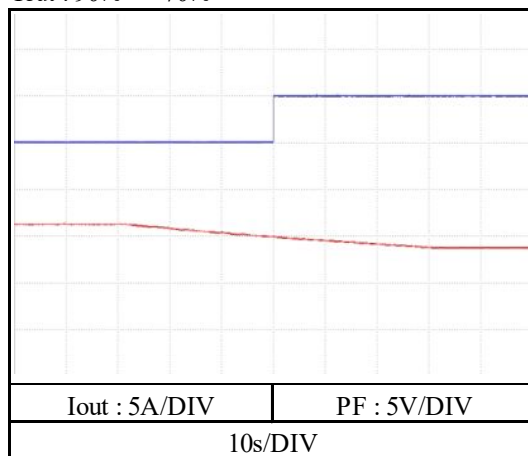


48V

Iout : 70% → 90%



Iout : 90% → 70%



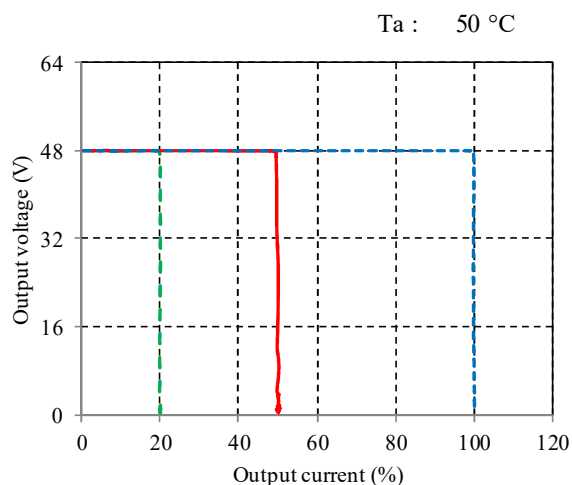
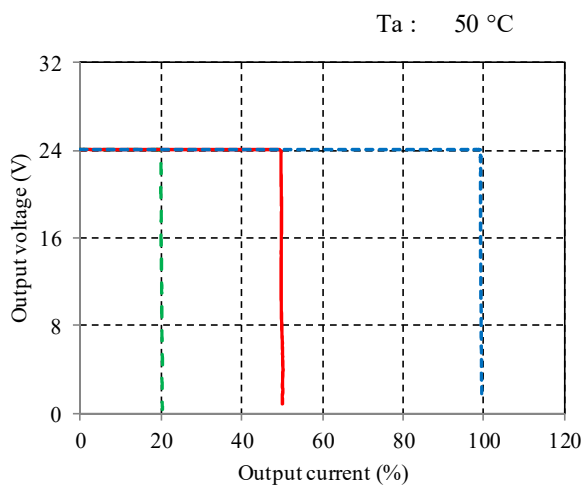
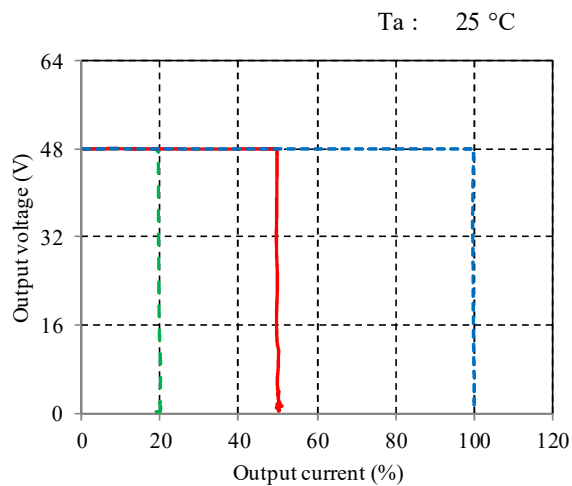
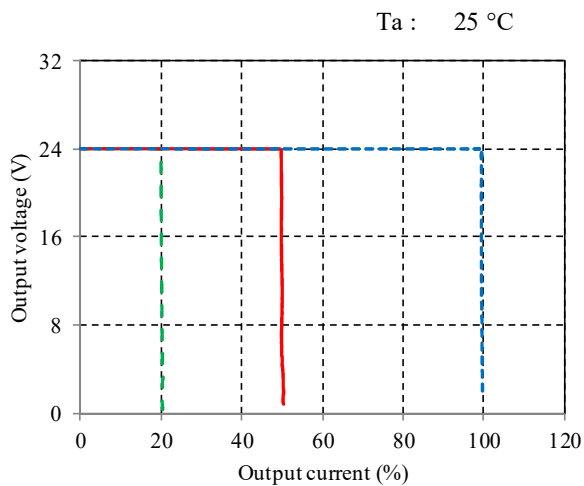
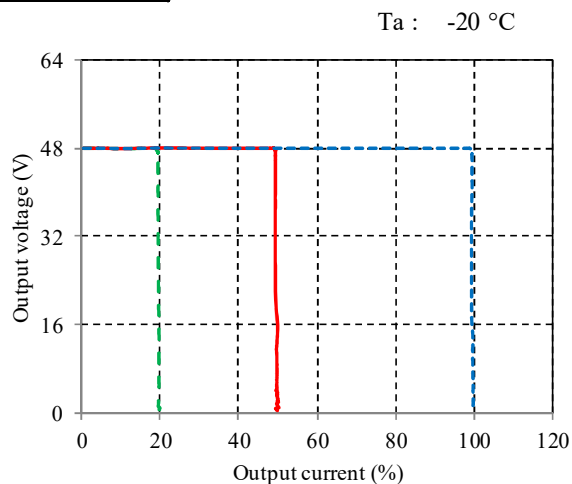
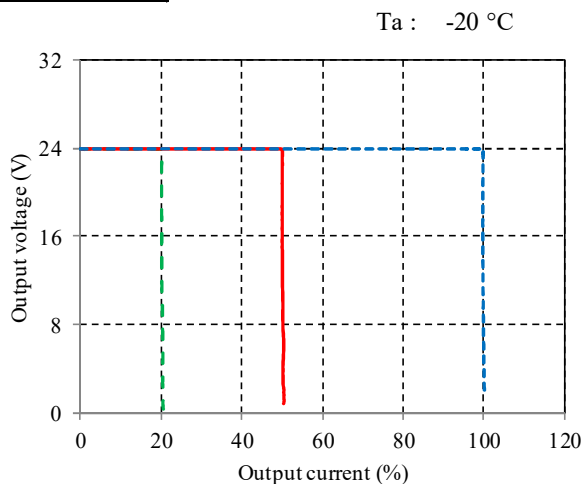
2-10. 出力電流対出力電圧特性 (定電流制御)

Output current vs. Output voltage characteristics (Constant current control)

Conditions V_{in} : 100 VAC
 I_{stb} : 100 %
 CC Reference : 20% ---
 50% ---
 100% ---

24V

48V



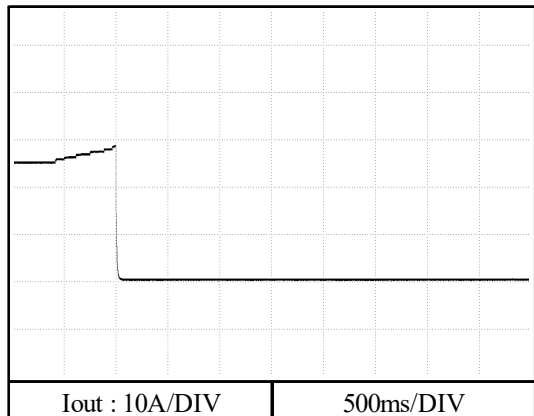
2-11. 過電流保護特性

Over current protection (OCP) characteristics

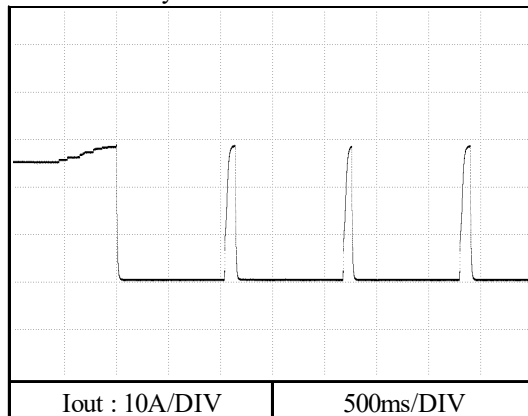
Conditions V_{in} : 100 VAC
 I_{stb} : 100 %
 T_a : 25 °C
 SWOCP : 115 %

24V

Latch mode

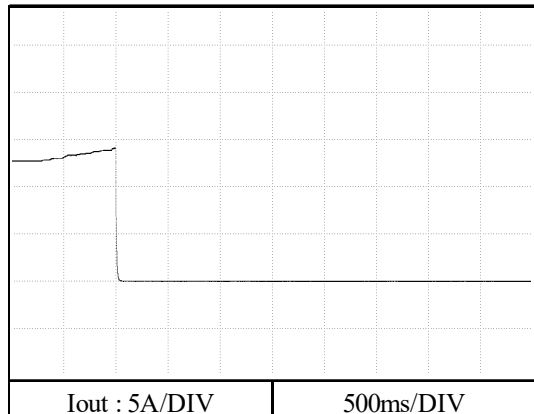


Auto Recovery mode

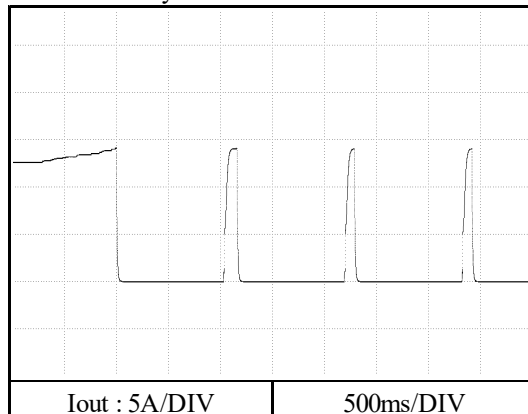


48V

Latch mode



Auto Recovery mode



2-11. 過電流保護特性

Over current protection (OCP) characteristics

Conditions Vin : 100 VAC

Istb : 100 %

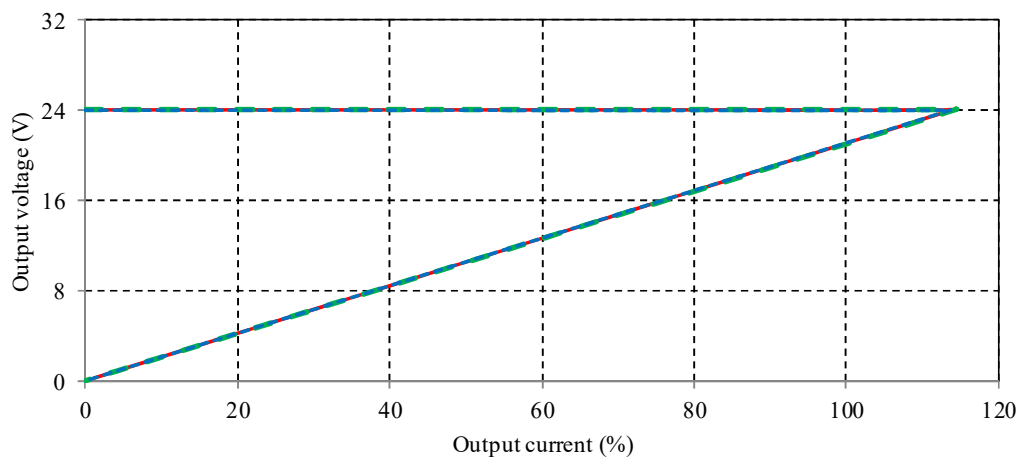
SWOCP : 115 %

Ta : -20 °C

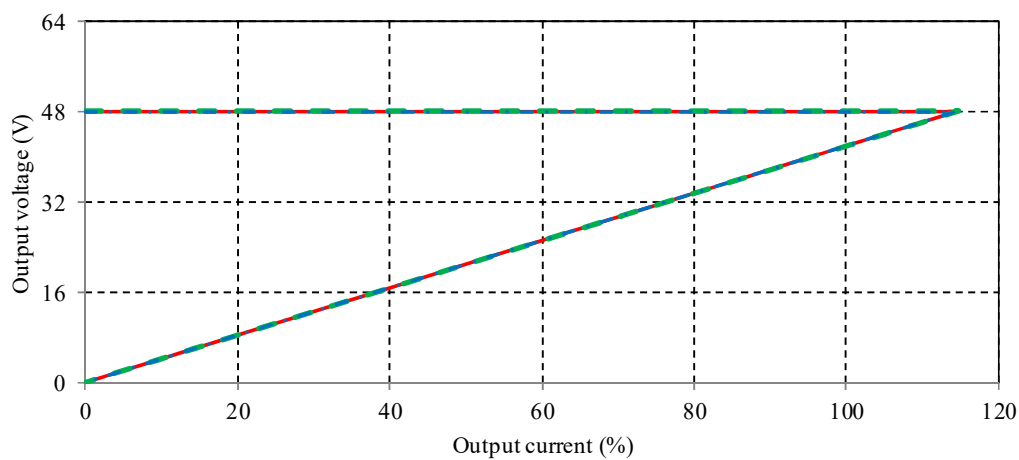
25 °C

50 °C

24V



48V



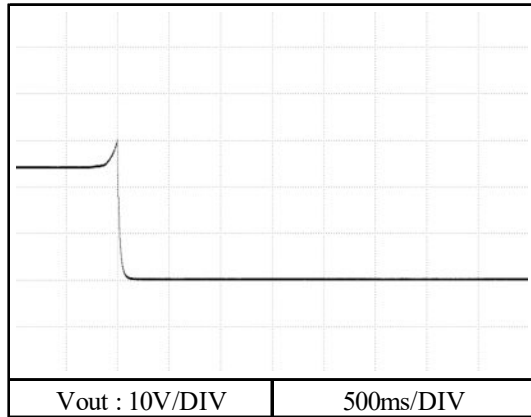
2-12. 過電圧保護特性

Over voltage protection (OVP) characteristics

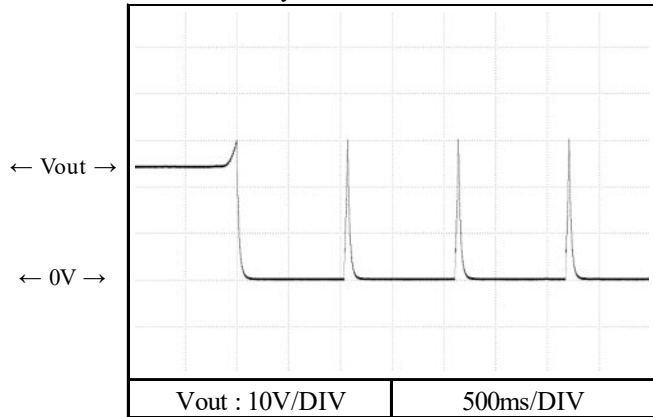
Conditions V_{in} : 100 VAC
 I_{stb} : 100 %
 T_a : 25 °C

24V

Latch mode

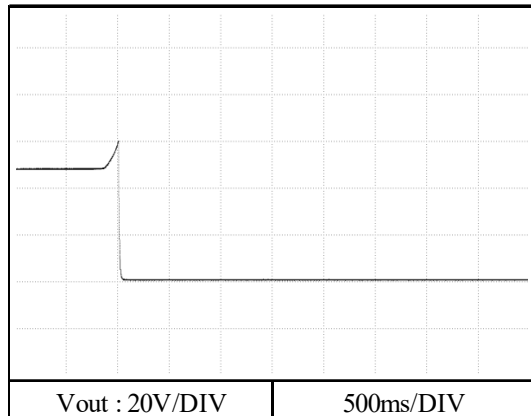


Auto Recovery mode

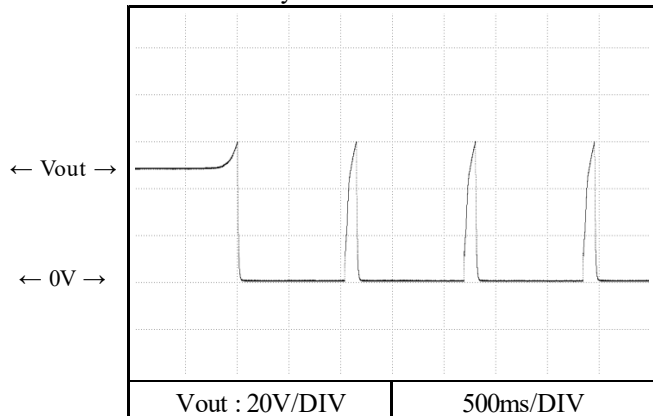


48V

Latch mode



Auto Recovery mode

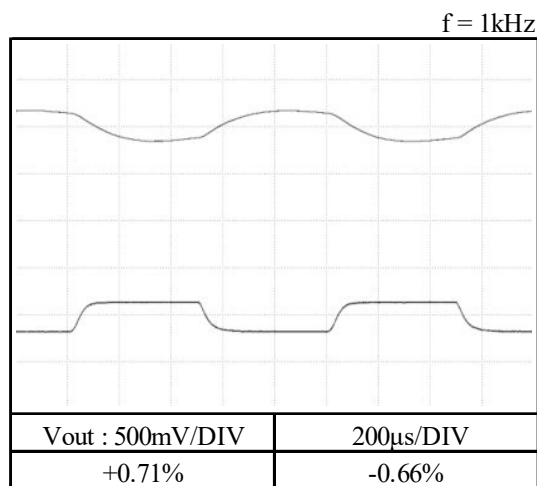
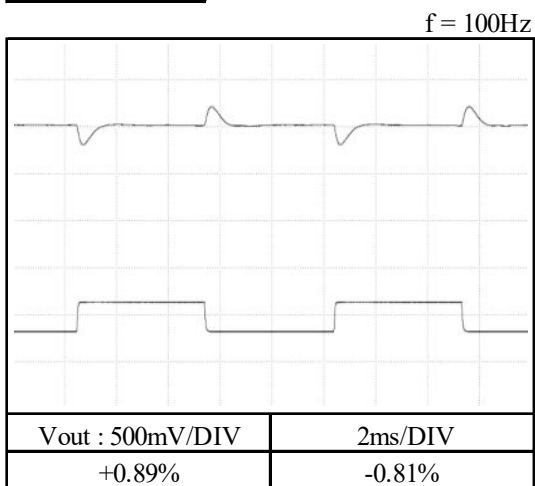


2-13. 過渡応答(負荷急変)特性

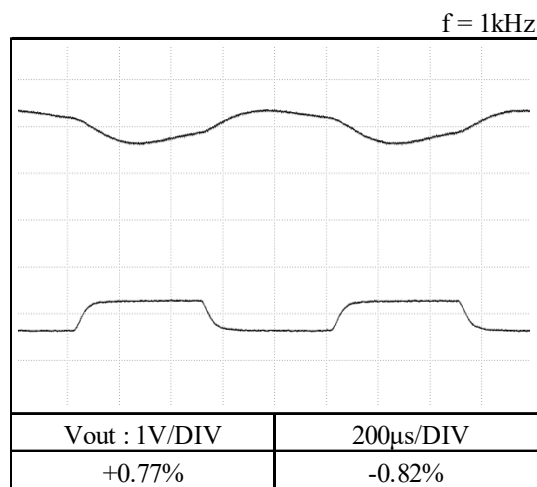
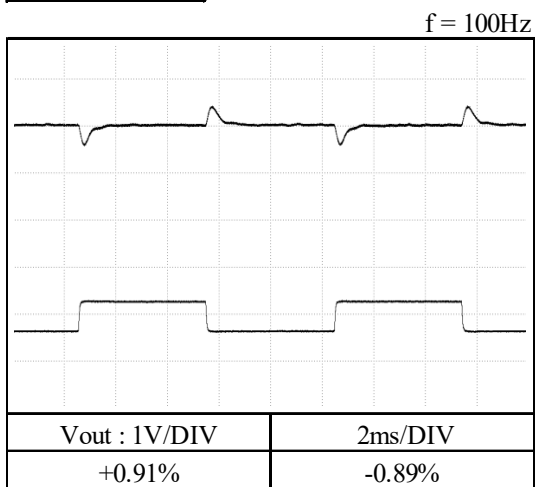
Dynamic load response characteristics

Conditions Vin : 100 VAC
 Iout : 50 % ↔ 100 %
 (tr = tf = 50us)
 Istb : 100 %
 Ta : 25 °C

24V



48V



2-14. 入力電圧瞬停特性

Response to brown out characteristics

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

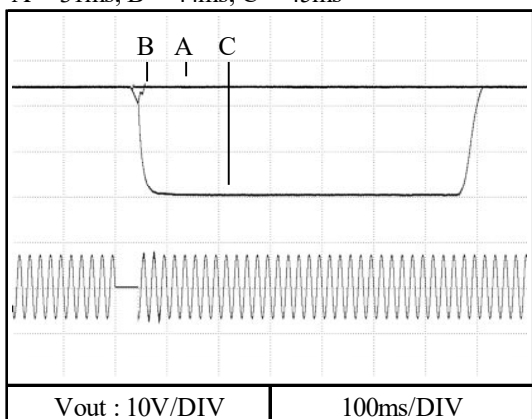
瞬停時間 Interruption time

- A : 出力電圧の低下なし 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.

24V

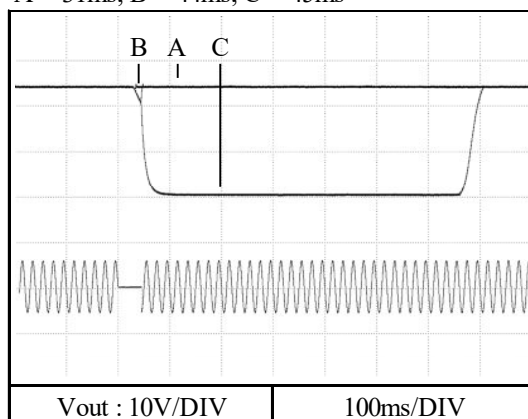
Vin : 100VAC

A = 31ms, B = 44ms, C = 45ms



Vin : 200VAC

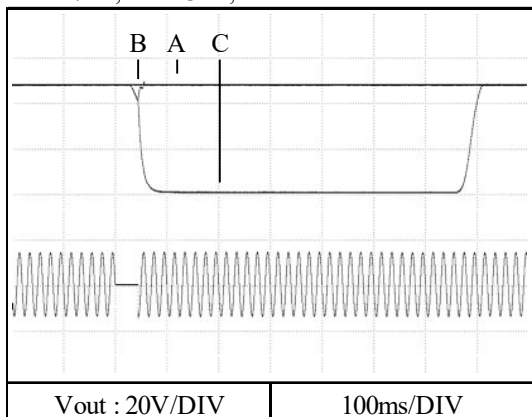
A = 31ms, B = 44ms, C = 45ms



48V

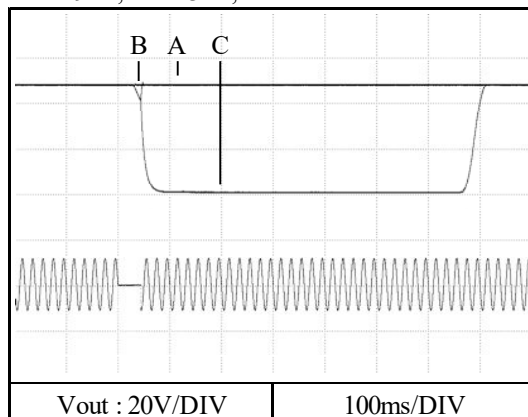
Vin : 100VAC

A = 27ms, B = 43ms, C = 44ms



Vin : 200VAC

A = 29ms, B = 43ms, C = 44ms

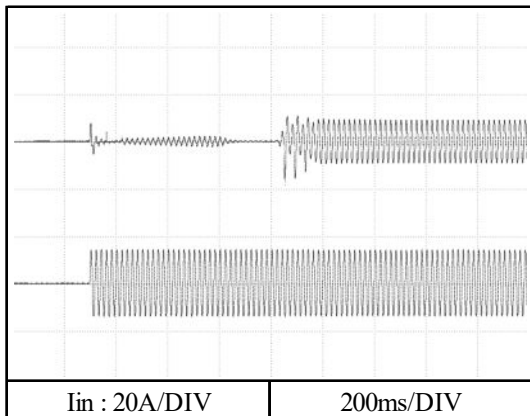


2-15. 入力サージ電流(突入電流)波形
Inrush current waveform

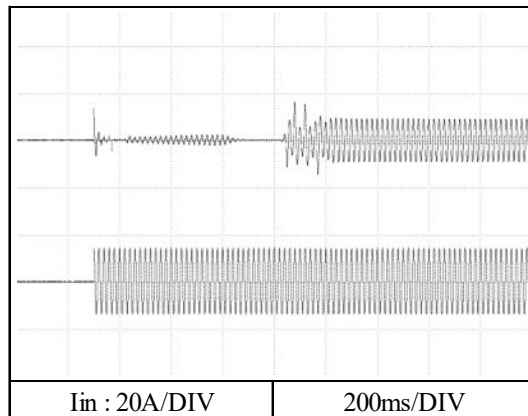
24V

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

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

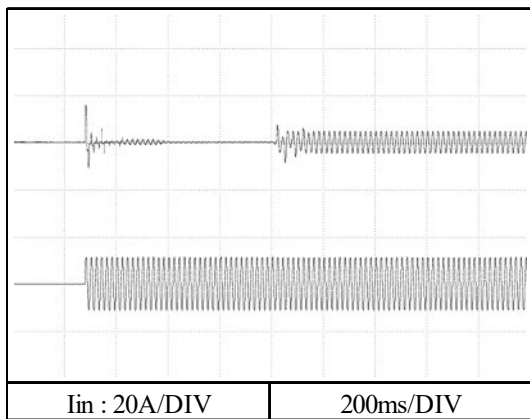


Switch on phase angle of input AC voltage
 $\phi = 90^\circ$

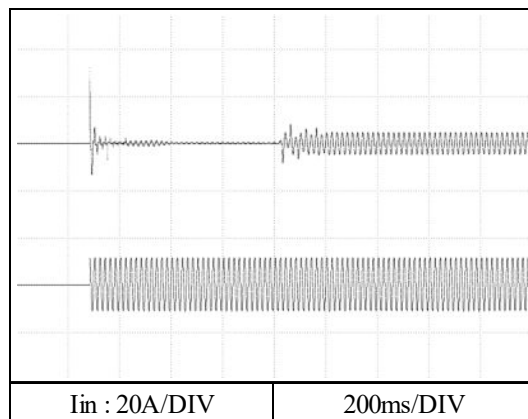


Conditions Vin : 200 VAC
Iout : 100 %
Istb : 100 %
Ta : 25 °C

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



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



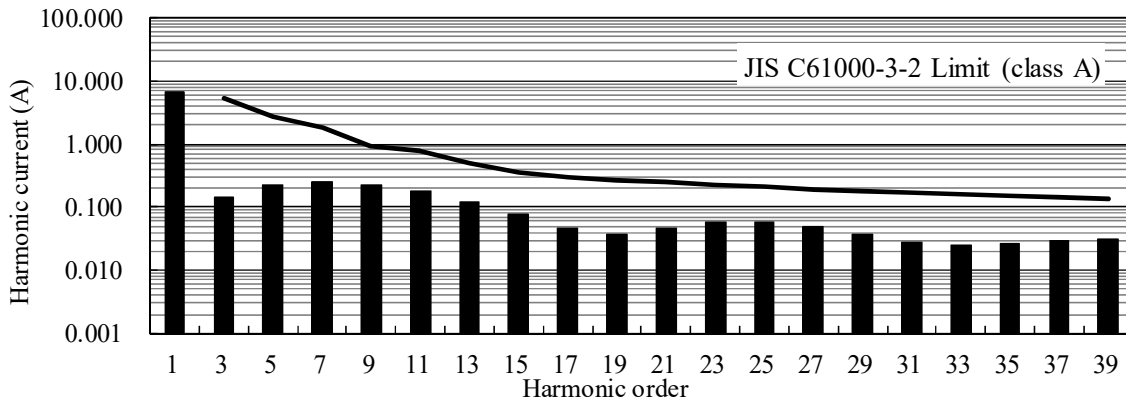
2-16. 高調波成分

Input current harmonics

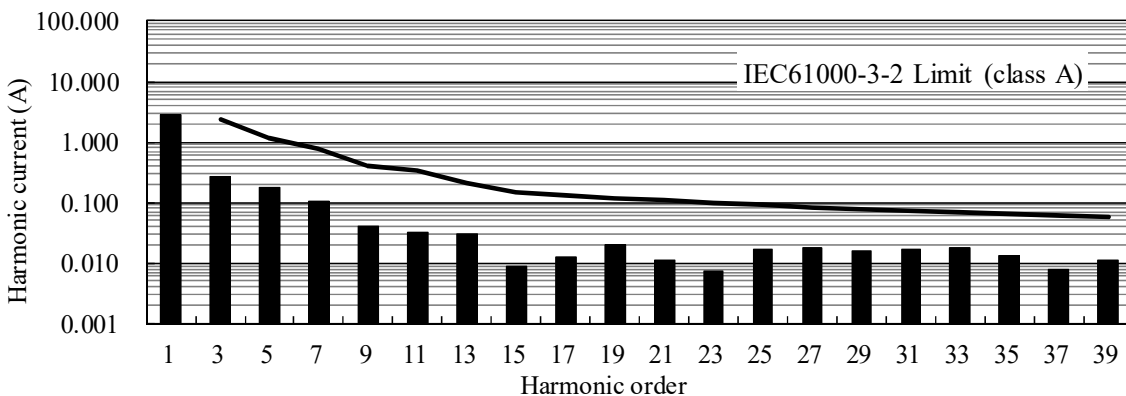
Conditions Iout : 100 %
Istb : 100 %
Ta : 25 °C

24V

Vin : 100 VAC



Vin : 230 VAC



2-17. 入力電流波形

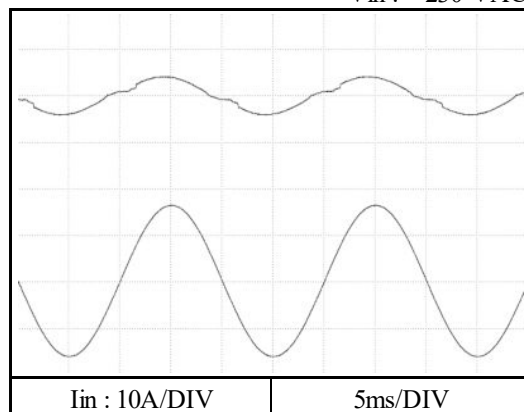
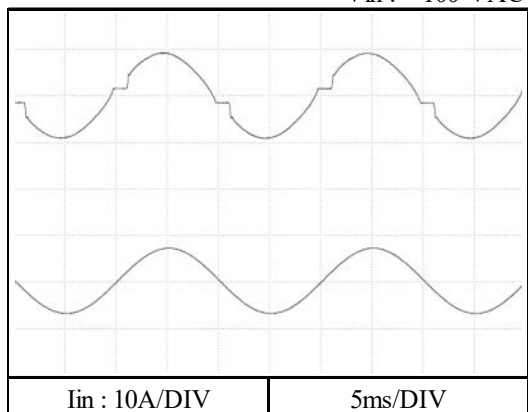
Input current waveform

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

24V

Vin : 100 VAC

Vin : 230 VAC



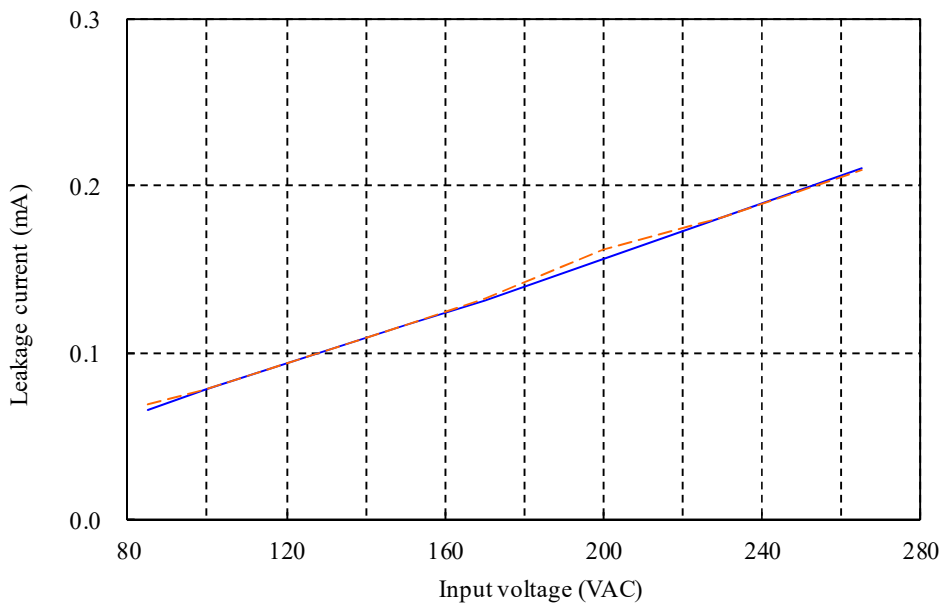
2-18. リーク電流特性

Leakage current characteristics

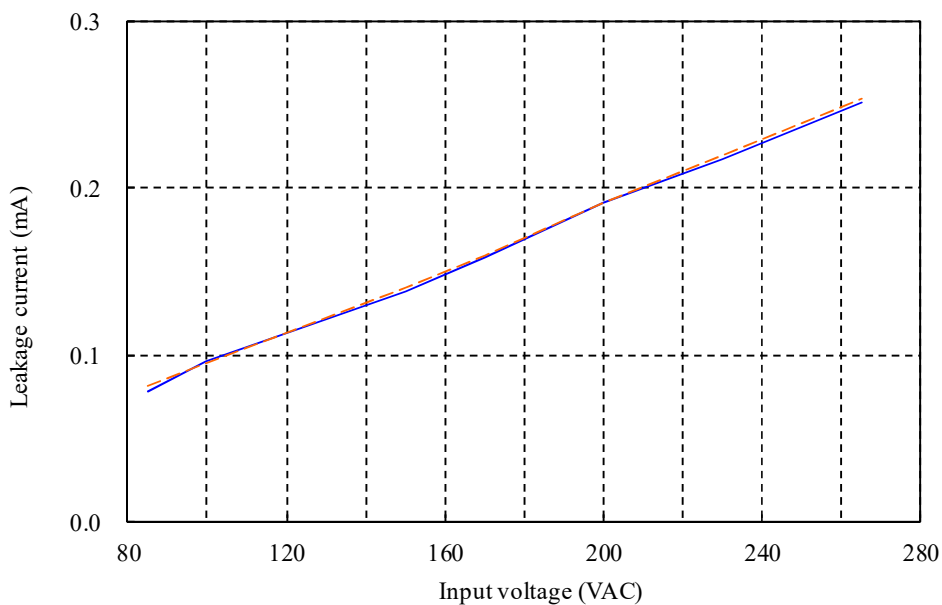
Conditions Iout , Istb : 0 % ———
 100 % - - - - -
 Ta : 25 °C
 Equipment used : ST5540 (HIOKI)

24V

f : 50 Hz



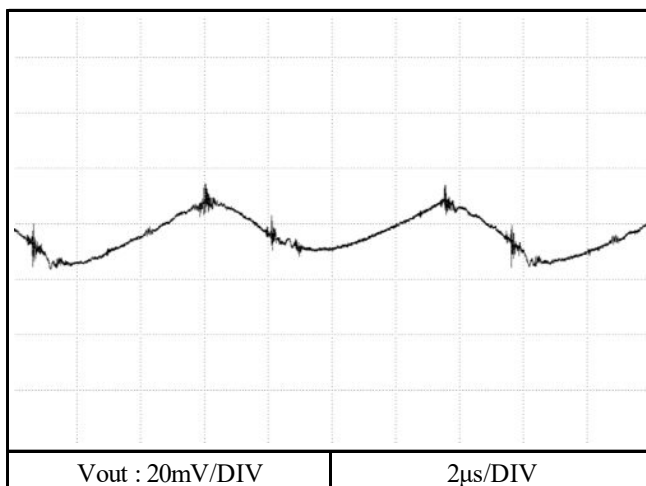
f : 60 Hz



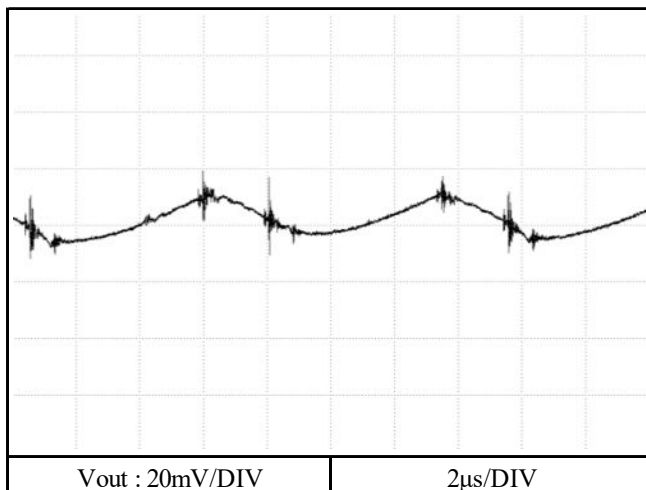
2-19. 出力リップル、ノイズ波形
Output ripple and noise waveform

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

24V



48V



2-20. EMI特性
Electro-Magnetic Interference characteristics

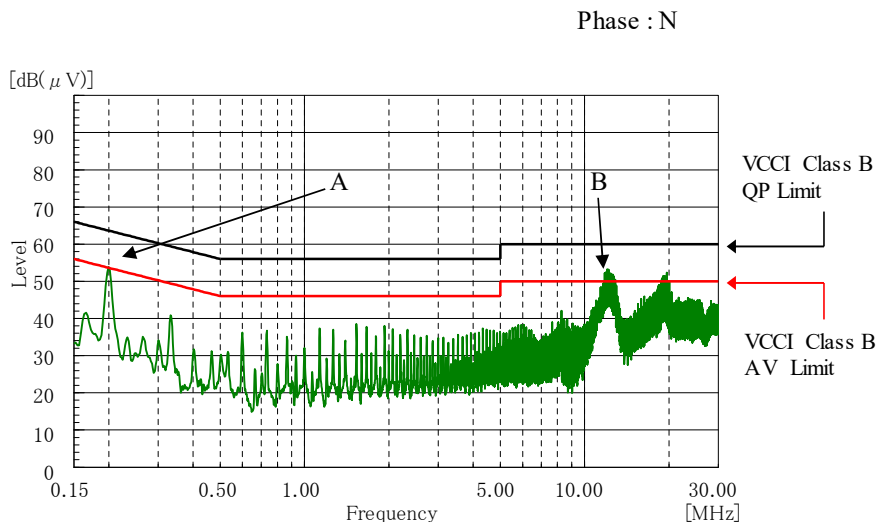
Conditions Vin : 230 VAC
Iout : 100 %
Istb : 100 %
Ta : 25 °C

雑音端子電圧
Conducted Emission

24V

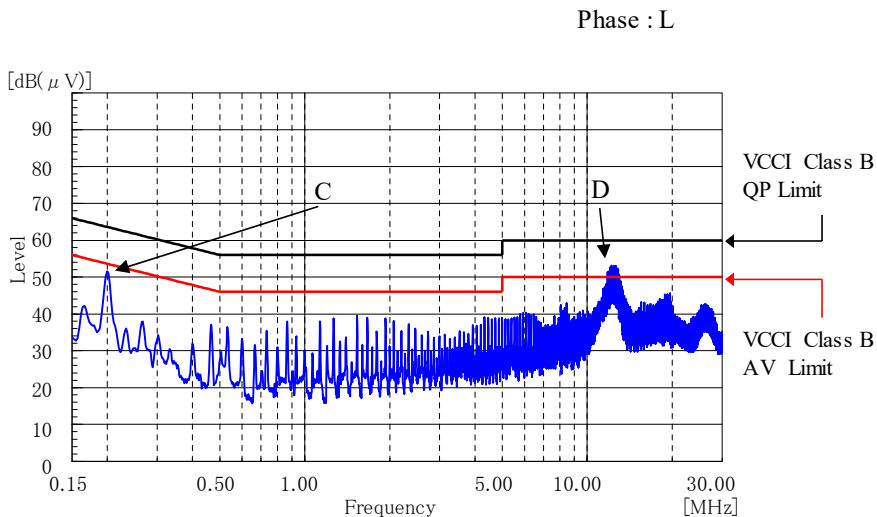
Point A (0.2MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	63.6	51.7
AV	53.6	50.5

Point B (12.1MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	60.0	50.2
AV	50.0	46.5



Point C (0.2MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	63.6	47.7
AV	53.6	45.6

Point D (12.5MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	60.0	49.9
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
Limits of EN55011-B,EN55032-B,FCC-B are same as that of VCCI class B.

2-20. EMI特性

Electro-Magnetic Interference characteristics

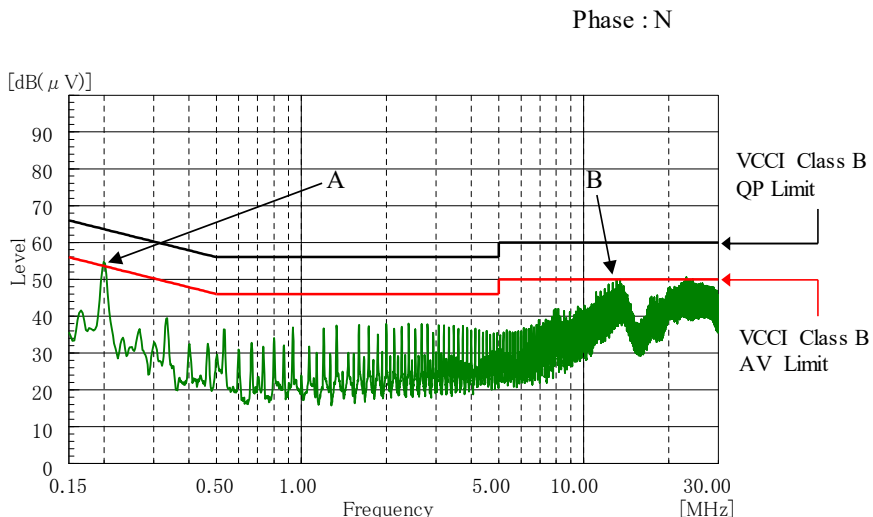
Conditions Vin : 230 VAC
 Iout : 100 %
 Istb : 100 %
 Ta : 25 °C

雑音端子電圧
 Conducted Emission

48V

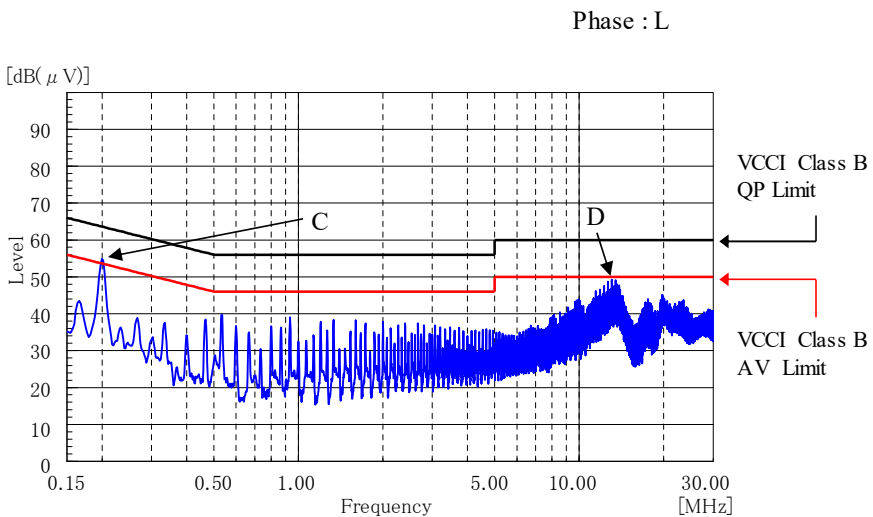
Point A (0.2MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	63.6	51.8
AV	53.6	50.5

Point B (13.3MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	60.0	46.6
AV	50.0	45.1



Point C (0.2MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	63.6	51.6
AV	53.6	50.4

Point D (13.5MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	60.0	46.1
AV	50.0	44.6



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

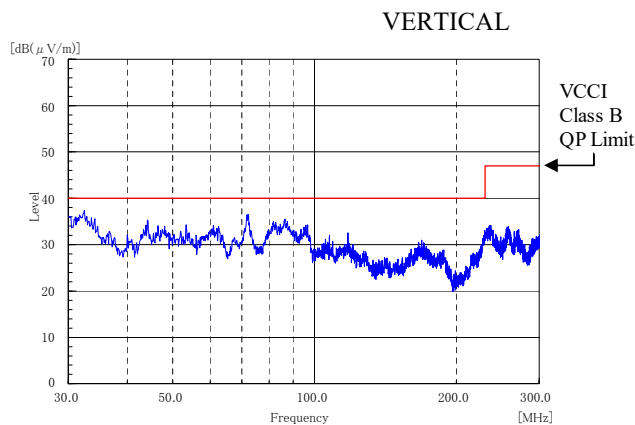
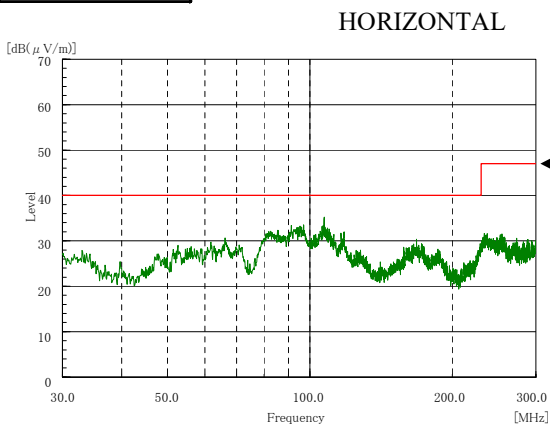
2-20. EMI特性

Electro-Magnetic Interference characteristics

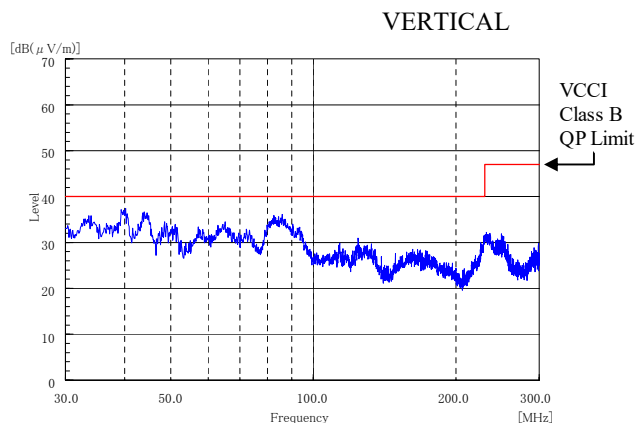
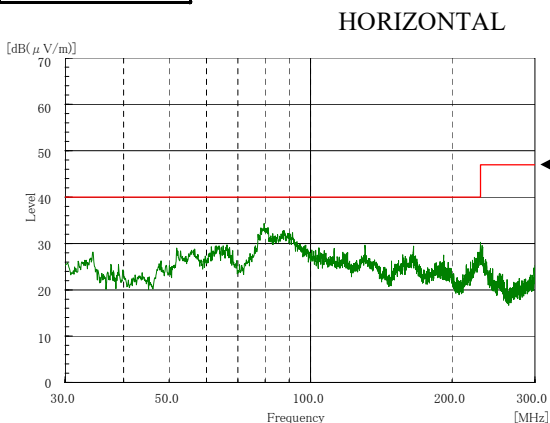
Conditions Vin : 230 VAC
 Iout : 100 %
 Istb : 100 %
 Ta : 25 °C

雑音電界強度
 Radiated Emission

24V



48V



EN55011-B,EN55032-Bの限界値はVCCI class Bの限界値と同じ
 Limits of EN55011-B,EN55032-B are same as that of VCCI class B.
 表示はピーク値
 Indication is peak value.

2-20. EMI特性

Electro-Magnetic Interference characteristics

Conditions Vin : 230 VAC

MODEL : GXE600/A

Iout : 100 %

カバー付きタイプ (オプション) With cover type (Option model)

Istb : 100 %

雑音端子電圧

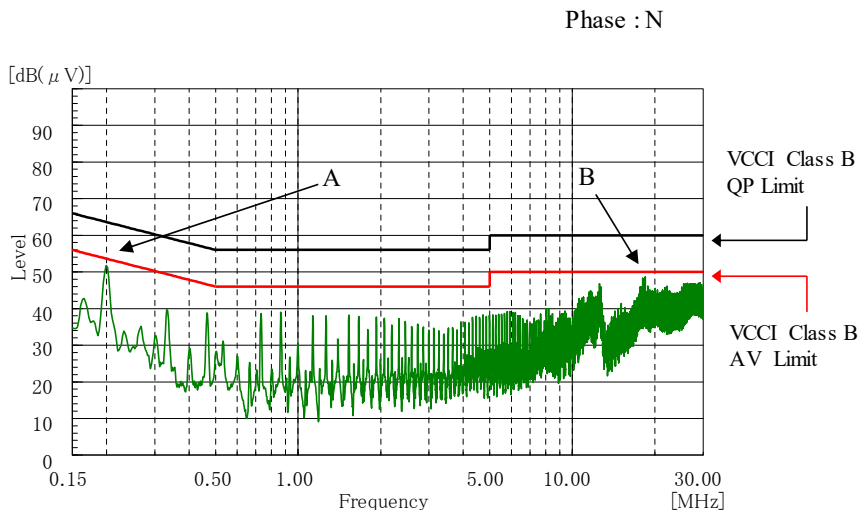
Ta : 25 °C

Conducted Emission

24V

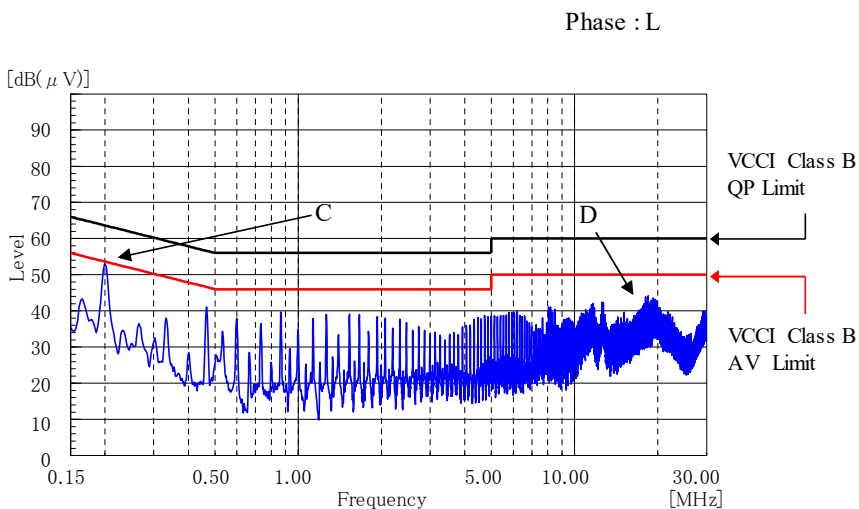
Point A (0.2MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	63.6	49.1
AV	53.6	47.3

Point B (18.4MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	60.0	45.0
AV	50.0	40.4



Point C (0.2MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	63.6	50.1
AV	53.6	48.8

Point D (18.4MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	60.0	40.3
AV	50.0	34.5



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

2-20. EMI特性

Electro-Magnetic Interference characteristics

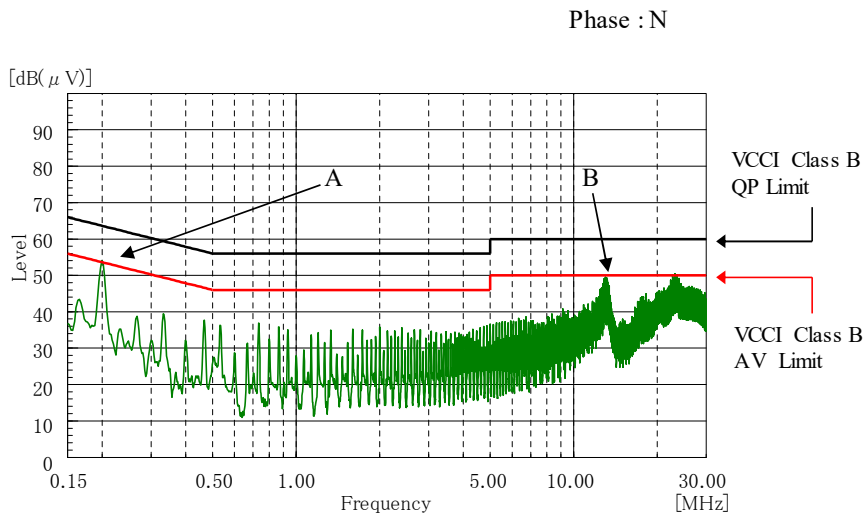
MODEL : GXE600/A
 カバー付きタイプ (オプション) With cover type (Option model)
 雑音端子電圧
 Conducted Emission

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

48V

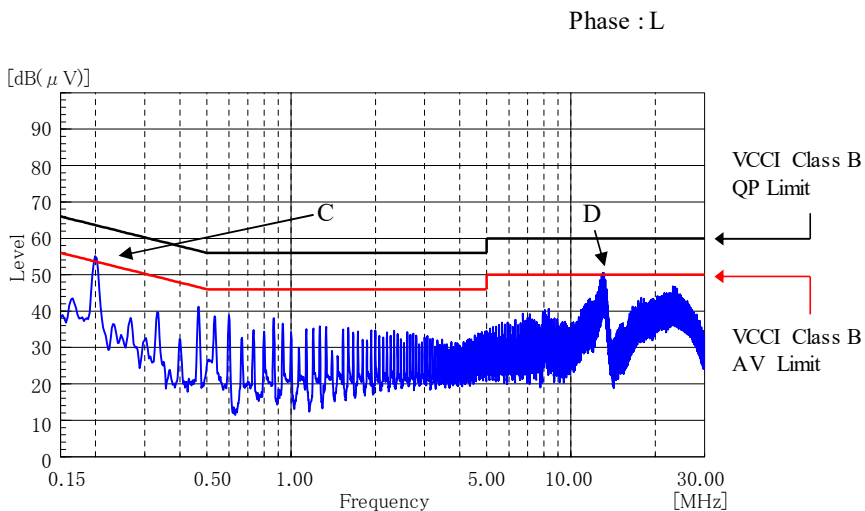
Point A (0.2MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	63.6	50.8
AV	53.6	48.8

Point B (13.0MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	60.0	47.3
AV	50.0	44.1



Point C (0.2MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	63.6	52.4
AV	53.6	50.3

Point D (13.0MHz)		
Ref. Data	Limit (dB)	Measure (dB)
QP	60.0	48.3
AV	50.0	44.8



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

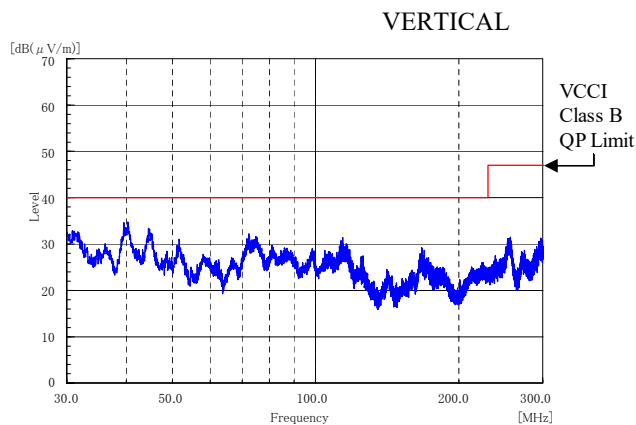
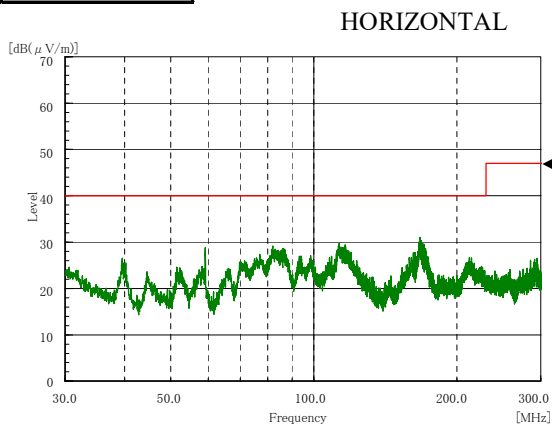
2-20. EMI特性

Electro-Magnetic Interference characteristics

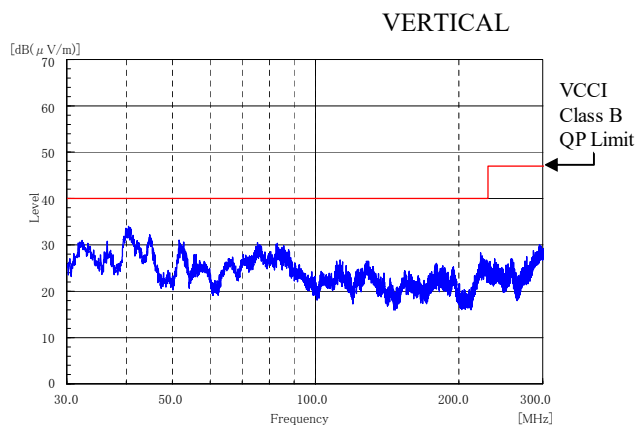
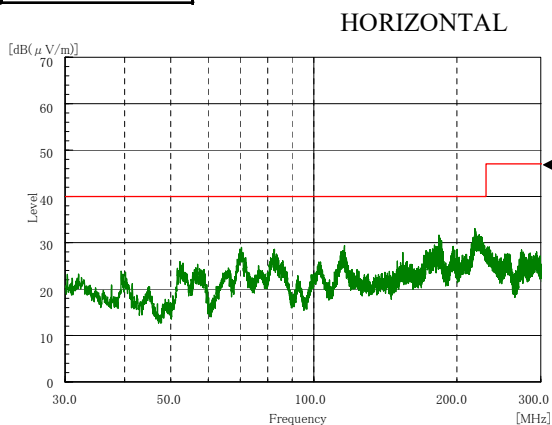
MODEL : GXE600/A
 カバー付きタイプ (オプション) With cover type (Option model)
 雑音電界強度
 Radiated Emission

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

24V



48V



EN55011-B,EN55032-Bの限界値はVCCI class Bの限界値と同じ
 Limits of EN55011-B,EN55032-B are same as that of VCCI class B.
 表示はピーク値
 Indication is peak value.