

CN50B110-*

EVALUATION DATA

型式データ

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使用記号 Terminology used

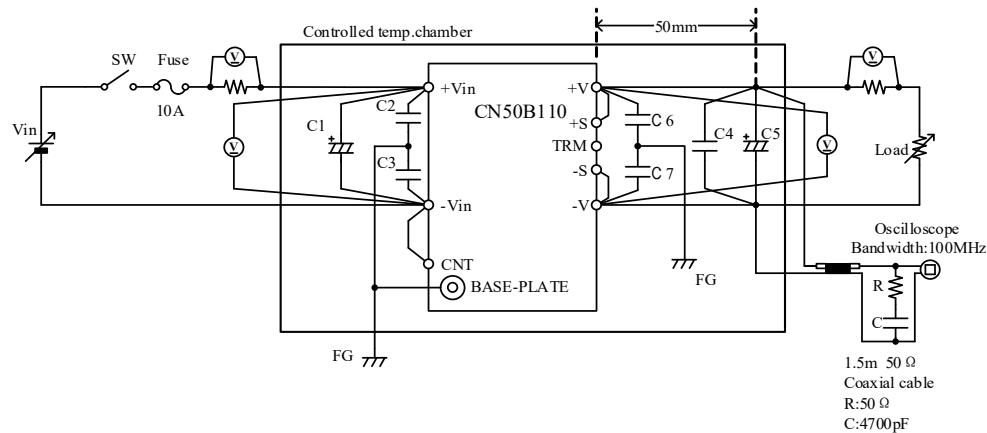
Definition		
Vin	入力電圧	Input voltage
Vo	出力電圧	Output voltage
Vcnt	CNT電圧	CNT voltage
Iin	入力電流	Input current
Io	出力電流	Output current
Tbp	ベースプレート温度	Base-plate temperature
Ta	周囲温度	Ambient temperature
f	周波数	Frequency

1. 評価方法 Evaluation Method

1.1 測定回路 Measurement Circuits

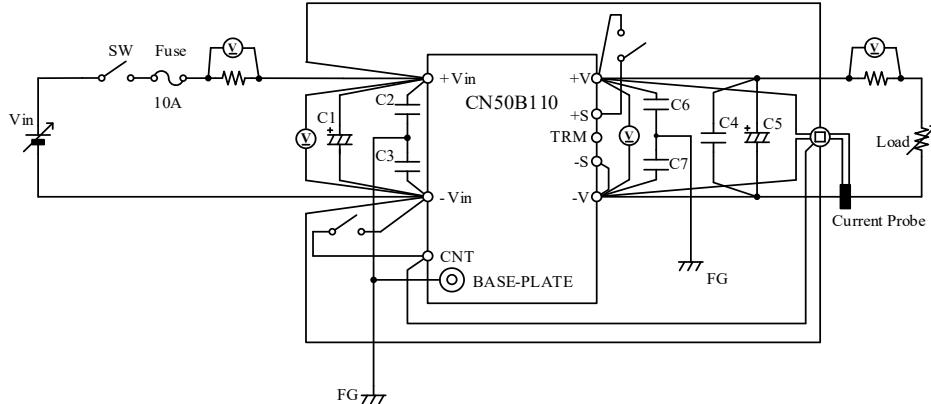
(1) 静特性、過電流保護特性、出力リップル・ノイズ波形

Steady state characteristics, Over current protection (OCP) characteristics
and Output ripple and noise waveform



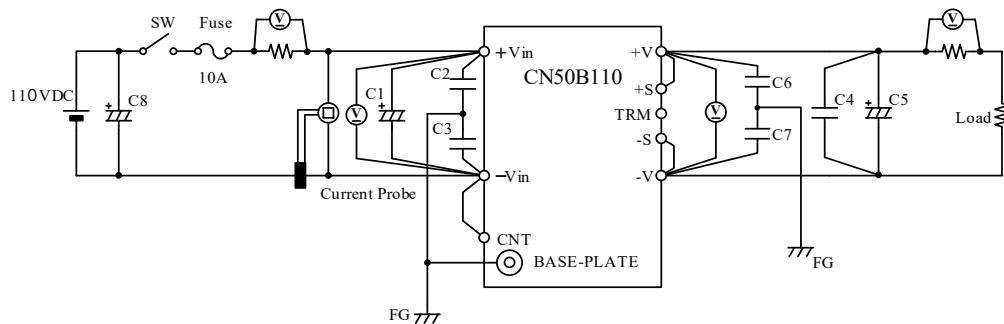
(2) 過渡応答、過電圧保護特性、その他

Dynamic response, Over voltage protection (OVP) characteristics
and Other characteristics



(3) 入力サージ電流(突入電流)特性

Inrush current characteristics



C1 : 100μF Electrolytic Capacitor

C2,C3 : 4700pF Ceramic Capacitor

C4 : 2.2μF Ceramic Capacitor

C6,C7 : 0.022μF Film Capacitor

C8 : 20000μF Electrolytic Capacitor

C5 : 5V- 1000μF Solid Capacitor

: 12V- 680μF Solid Capacitor

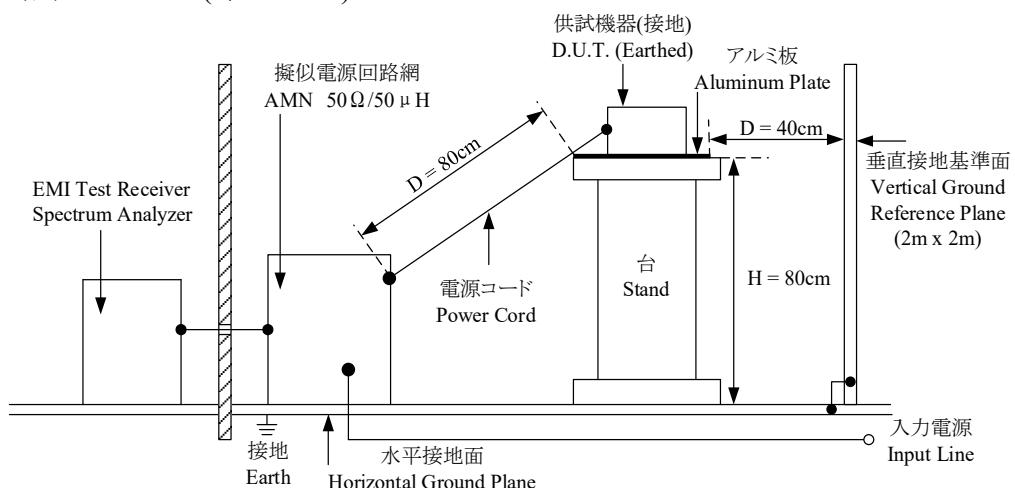
: 15V- 680μF Solid Capacitor

: 24V- 220μF Electrolytic Capacitor

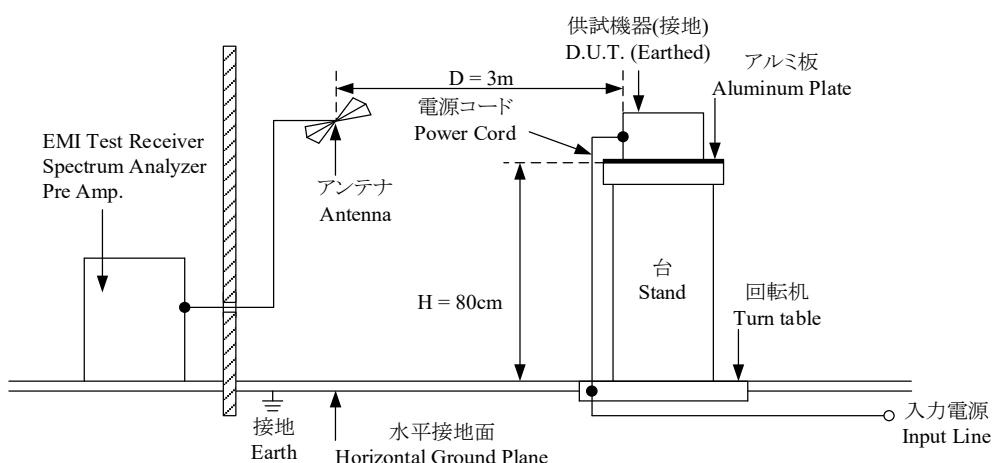
: 48V- 220μF x2 Series Electrolytic Capacitor

(4) EMI特性 Electro-Magnetic Interference characteristics

(a) 雑音端子電圧(帰還ノイズ) Conducted Emission Noise



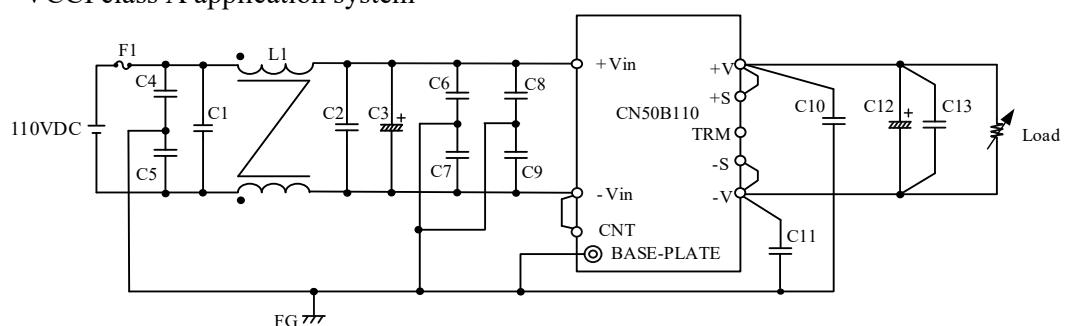
(b) 雑音電界強度(輻射ノイズ) Radiated Emission Noise



*入出力ケーブルとしてシールドケーブルを使用
Shielded cable used to input and output cable.

VCCI class A対応アプリケーションシステム

VCCI class A application system



C1 : 1.5μF Film Capacitor

C2 : 1.5μF Film Capacitor

C3 : 100μF Electrolytic Capacitor

C4,C5 : 100pF Ceramic Capacitor

C6,C7,C8,C9 : 4700pF Ceramic Capacitor

C10,C11 : 0.022μF Film Capacitor

C13 : 2.2μF Ceramic Capacitor

C12 : 5V- 1000μF Solid Capacitor

: 12V- 680μF Solid Capacitor

: 15V- 680μF Solid Capacitor

: 24V- 220μF Electrolytic Capacitor

: 48V- 220μF x2 Series Electrolytic Capacitor

F1 : 10A

L1 : 2mH

*詳細な周辺パラメータ情報(参照用)

The detailed peripheral parameter information (for reference)

	SYMBOL	PRODUCT TYPE	ITEM DESCRIPTION	NOTE	MANUFACTURER
1	F1	Fuse	WN30-10-P	500VDC, 10A	WALTER
2	C1,C2	Cap., Film	MDX22W155K-F	450VDC , 1.5μ	NITSUKO
3	C3	Cap., Elect	EKXJ201ELL101MJ35S	200V, 100μ	NI-CHEMI
4	C4,C5	Cap.,Ceramic(AC)	DE1B3RA101KJ4BN01F	250V, 100p	MURATA
5	C6,C7,C8,C9	Cap.,Ceramic(AC)	DE1E3KX472MJ4BN04F	250V, 4,700p	MURATA
6	C10,C11	Cap., Film	MMCF0630K22300000100	630V, 0.022μ	NISSEI
7	C12	5V Model	APSG160ELL102MJB5S	16V, 1,000μ	NI-CHEMI
8		12V Model	APSG250ELL681MJB5S	25V, 680μ	NI-CHEMI
9		15V Model	APSG250ELL681MJB5S	25V, 680μ	NI-CHEMI
10		24V Model	ELXY500ELL221MJ25S	50V, 220μ	NI-CHEMI
11		48V Model	ELXY500ELL221MJ25S	50V, 220μ ×2	NI-CHEMI
12	C13	MLCC	C3225X7R2A225KT	100V, 2.2μ	TDK
13	L1	Noise Filter Coil	TC580020S	2mH, 8A	TNC

1.2 使用測定機器 List of equipment used

	EQUIPMENT USED	MANUFACTURER	MODEL NO.
1	AMN	SCHWARZBECK	NNLK8121
2	ANTENNA(BI-LOG ANTENNA)	TESEQ	CBL6111D
3	CONTROLLED TEMP. CHAMBER	ESPEC CORP.	SU-662
4	CURRENT PROBE	YOKOGAWA ELECT.	701930
5	CURRENT PROBE AMPLIFIER	YOKOGAWA ELECT.	700938
6	CVCF	KIKUSUI	PCR2000L
7	DC POWER SUPPLY	TDK-Lambda	GEN200-25
8	DIGITAL MULTIMETER	Agilent	34970A
9	DIGITAL POWER METER	YOKOGAWA ELECT.	WT210
10	DIGITAL STORAGE OSCILLOSCOPE	YOKOGAWA ELECT.	DLM2054
11	DYNAMIC DUMMY LOAD	Chroma	63203
12	EMI TEST RECEIVER SPECTRUM ANALYZER	ROHDE & SCHWARZ	ESCI
13	PRE AMP.	SONOMA	310N
14	SHUNT RESISTER	YOKOGAWA ELECT.	2215

2. 特性データ Characteristics

2.1 静特性 Steady state data

(1) 入力変動、負荷変動、温度変動 Line regulation, Load regulation, Temperature drift

5V

1. Line regulation and Load regulation

Condition Tbp : 25°C

Io \ Vin	43VDC	72VDC	110VDC	160VDC	Line regulation	
0%	5.016V	5.016V	5.016V	5.016V	0mV	0.000%
50%	5.016V	5.016V	5.015V	5.015V	1mV	0.020%
100%	5.015V	5.015V	5.015V	5.015V	0mV	0.000%
Load regulation		1mV	1mV	1mV		
		0.020%	0.020%	0.020%		

2. Temperature drift

Conditions Vin : 110VDC

Io : 100%

Tbp	-40°C	+25°C	+100°C	Temperature stability	
	5.023V	5.015V	5.005V	18mV	0.352%

12V

1. Line regulation and Load regulation

Condition Tbp : 25°C

Io \ Vin	43VDC	72VDC	110VDC	160VDC	Line regulation	
0%	12.034V	12.034V	12.033V	12.032V	0mV	0.000%
50%	12.034V	12.033V	12.033V	12.032V	2mV	0.017%
100%	12.034V	12.033V	12.032V	12.031V	3mV	0.025%
Load regulation		0mV	1mV	1mV		
		0.000%	0.008%	0.008%		

2. Temperature drift

Conditions Vin : 110VDC

Io : 100%

Tbp	-40°C	+25°C	+100°C	Temperature stability	
	12.047V	12.032V	12.013V	34mV	0.283%

(1) 入力変動、負荷変動、温度変動 Line regulation, Load regulation, Temperature drift

15V

1. Line regulation and Load regulation

Condition Tbp : 25°C

Io \ Vin	43VDC	72VDC	110VDC	160VDC	Line regulation	
0%	14.988V	14.988V	14.988V	14.988V	0mV	0.000%
50%	14.987V	14.987V	14.987V	14.987V	0mV	0.000%
100%	14.987V	14.987V	14.986V	14.986V	1mV	0.007%
Load regulation	1mV	1mV	2mV	2mV		
	0.007%	0.007%	0.013%	0.013%		

2. Temperature drift

Conditions Vin : 110VDC

Io : 100%

Tbp	-40°C	+25°C	+100°C	Temperature stability	
	15.013V	14.986V	14.959V	54mV	0.358%

24V

1. Line regulation and Load regulation

Condition Tbp : 25°C

Io \ Vin	43VDC	72VDC	110VDC	160VDC	Line regulation	
0%	24.012V	24.013V	24.013V	24.013V	1mV	0.004%
50%	24.011V	24.012V	24.013V	24.013V	2mV	0.008%
100%	24.011V	24.012V	24.012V	24.012V	1mV	0.004%
Load regulation	1mV	1mV	1mV	1mV		
	0.004%	0.004%	0.004%	0.004%		

2. Temperature drift

Conditions Vin : 110VDC

Io : 100%

Tbp	-40°C	+25°C	+100°C	Temperature stability	
	24.055V	24.012V	23.995V	60mV	0.250%

(1) 入力変動、負荷変動、温度変動 Line regulation, Load regulation, Temperature drift

48V

1. Line regulation and Load regulation

Condition Tbp : 25°C

Io \ Vin	43VDC	72VDC	110VDC	160VDC	Line regulation	
0%	48.105V	48.106V	48.106V	48.106V	1mV	0.007%
50%	48.103V	48.104V	48.105V	48.104V	2mV	0.013%
100%	48.102V	48.102V	48.103V	48.103V	1mV	0.007%
Load regulation	3mV	4mV	3mV	3mV		
	0.020%	0.027%	0.020%	0.020%		

2. Temperature drift

Conditions Vin : 110VDC

Io : 100%

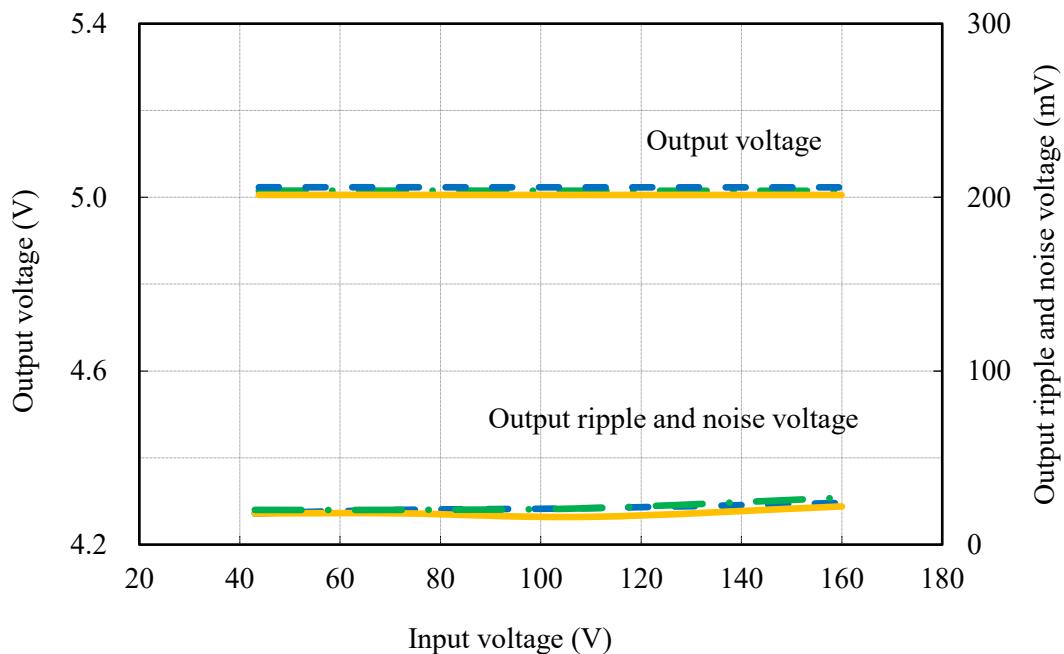
Tbp	-40°C	+25°C	+100°C	Temperature stability	
Vo	48.216V	48.103V	48.022V	194mV	0.404%

(2) 出力電圧、出力リップル・ノイズ電圧 対 入力電圧

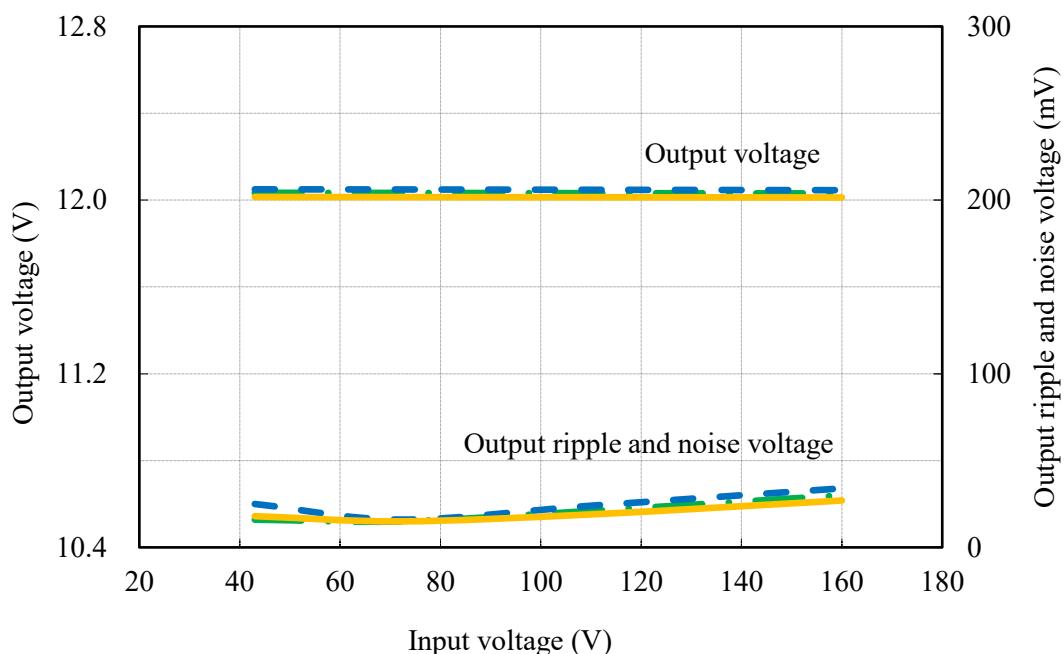
Output voltage and Output ripple and noise voltage vs. Input voltage

Conditions
 Io : 100 %
 Tbp : -40 °C
 : 25 °C
 : 100 °C

5V



12V

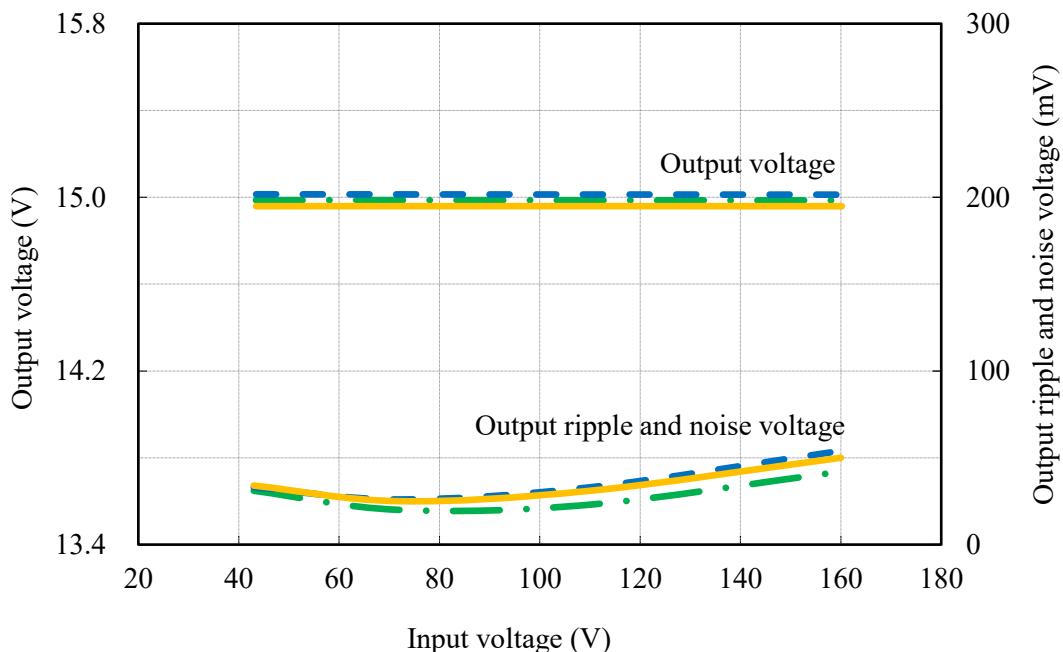


(2) 出力電圧、出力リップル・ノイズ電圧 対 入力電圧

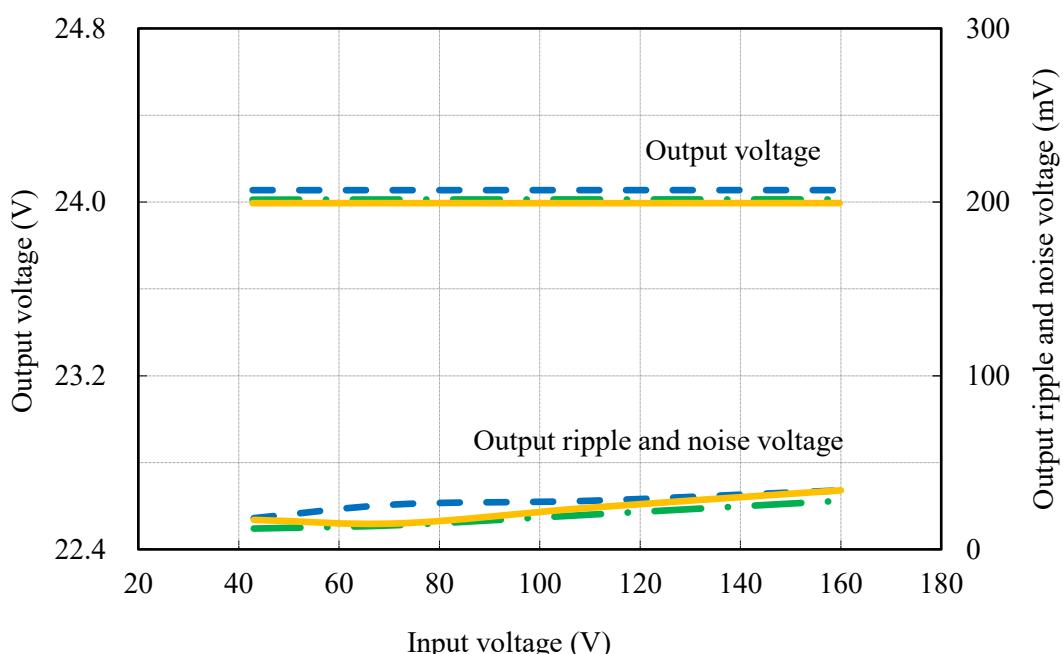
Output voltage and Output ripple and noise voltage vs. Input voltage

Conditions Io : 100 %
 Tbp : -40 °C -----
 : 25 °C - - -
 : 100 °C —

15V



24V

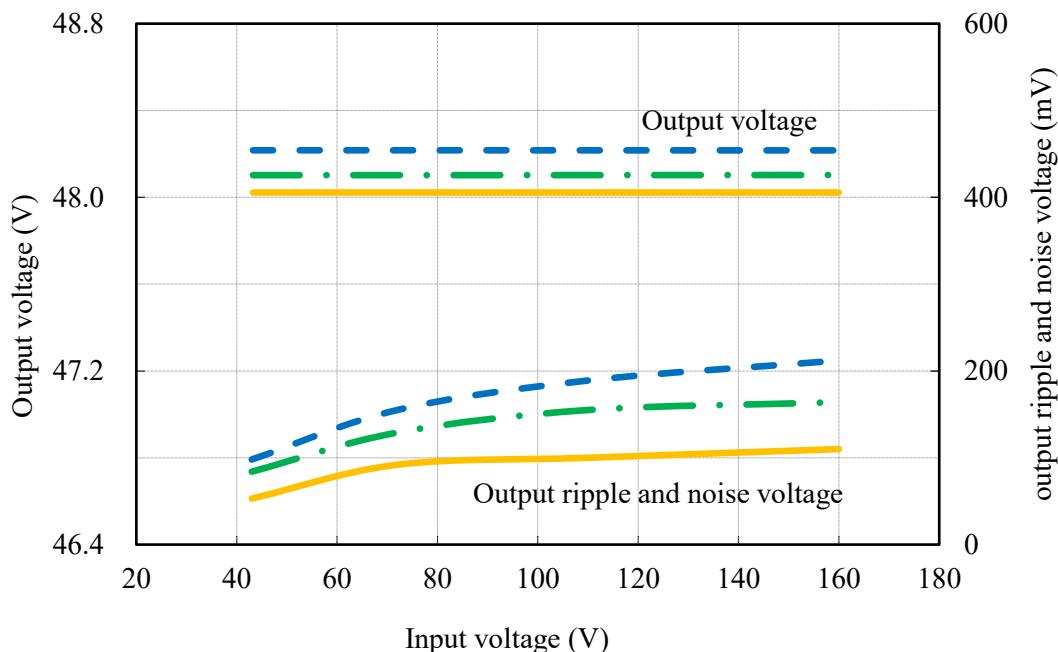


(2) 出力電圧、出力リップル・ノイズ電圧 対 入力電圧

Output voltage and Output ripple and noise voltage vs. Input voltage

Conditions
Io : 100 %
Tbp : -40 °C
: 25 °C
: 100 °C

48V

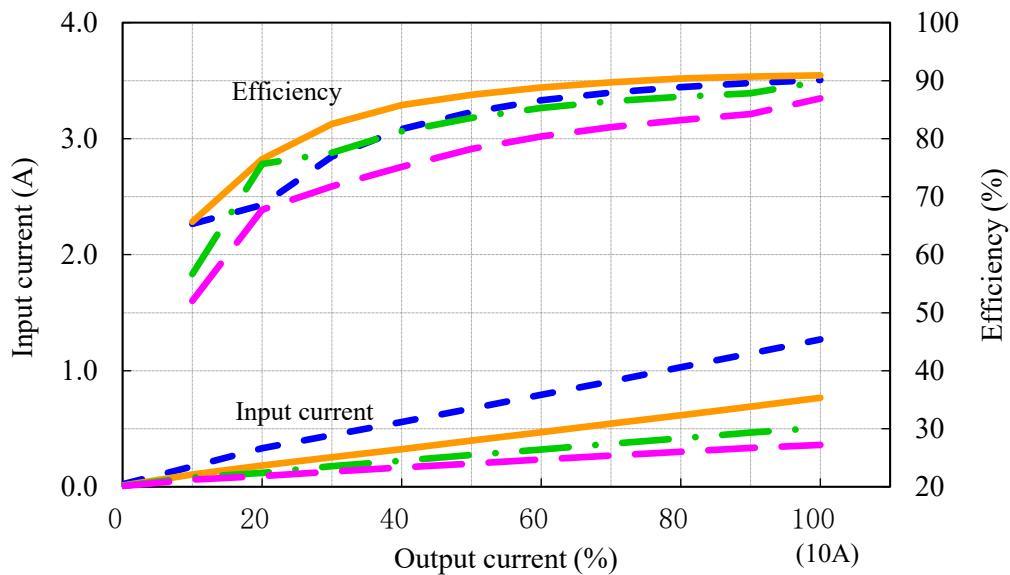


(3) 入力電流、効率 対 出力電流

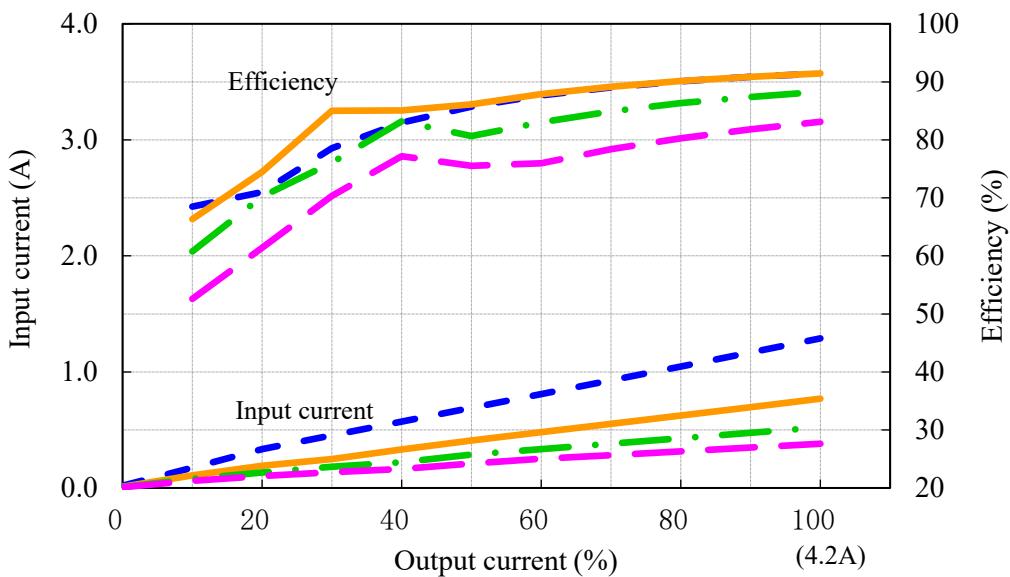
Input current and Efficiency vs. Output current

Conditions
 Vin : 43 VDC
 : 72 VDC
 : 110 VDC
 : 160 VDC
 Tbp : 25 °C

5V



12V

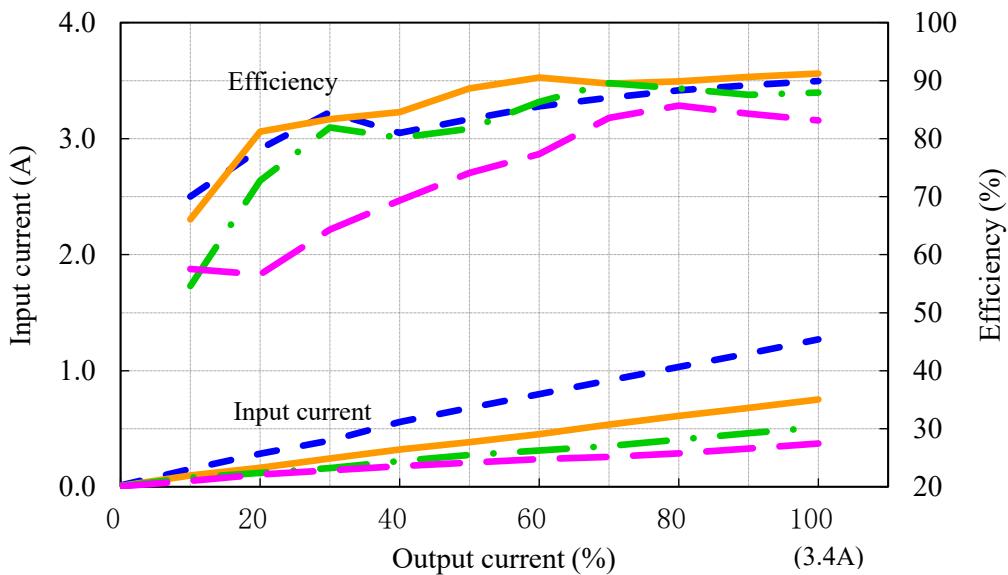


(3) 入力電流、効率 対 出力電流

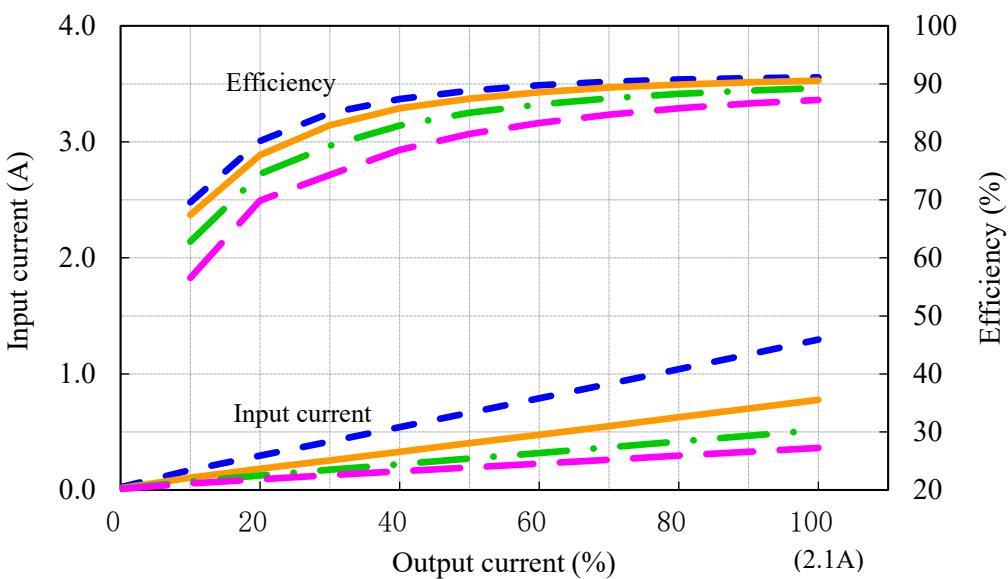
Input current and Efficiency vs. Output current

Conditions
 Vin : 43 VDC
 : 72 VDC
 : 110 VDC
 : 160 VDC
 Tbp : 25 °C

15V



24V

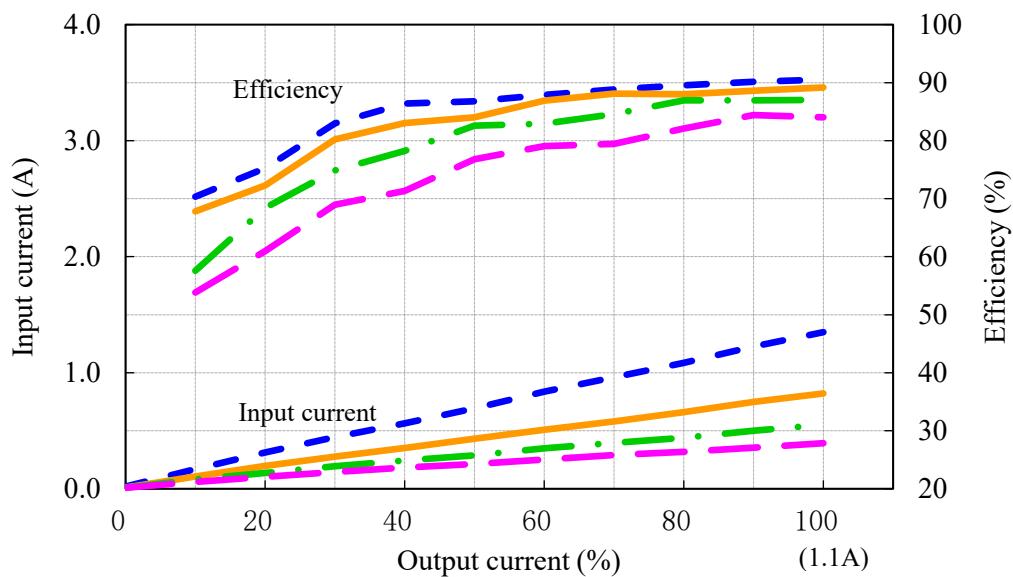


(3) 入力電流、効率 対 出力電流

Input current and Efficiency vs. Output current

Conditions
Vin : 43 VDC
: 72 VDC
: 110 VDC
: 160 VDC
Tbp : 25 °C

48V

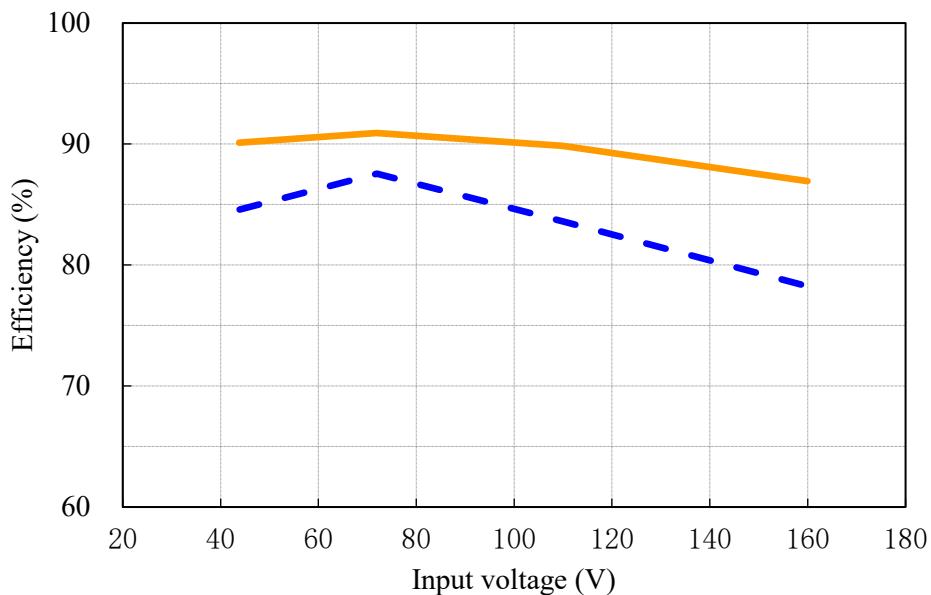


(4) 効率 対 入力電圧

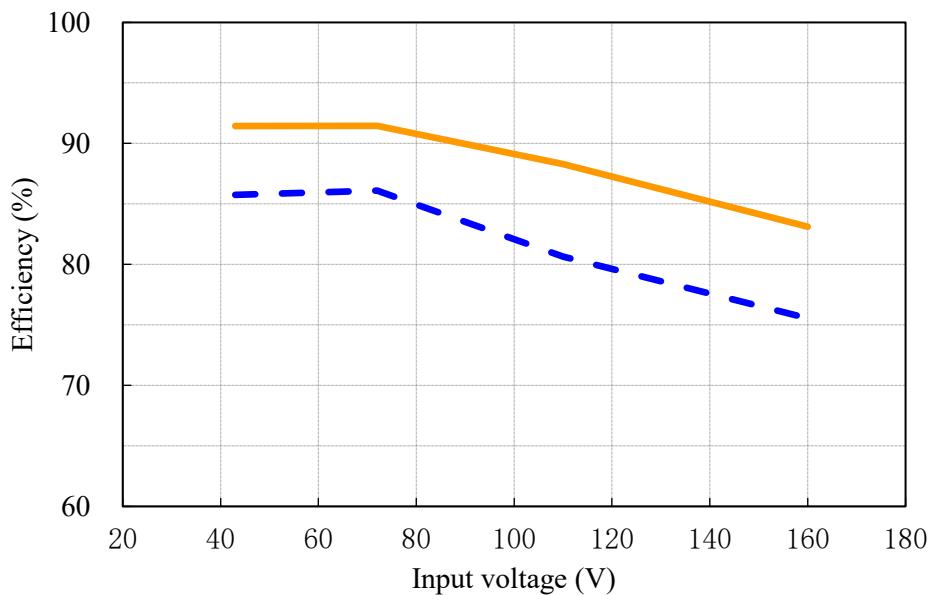
Efficiency vs. Input voltage

Conditions
Io : 50 %
: 100 %
Tbp : 25 °C

5V



12V

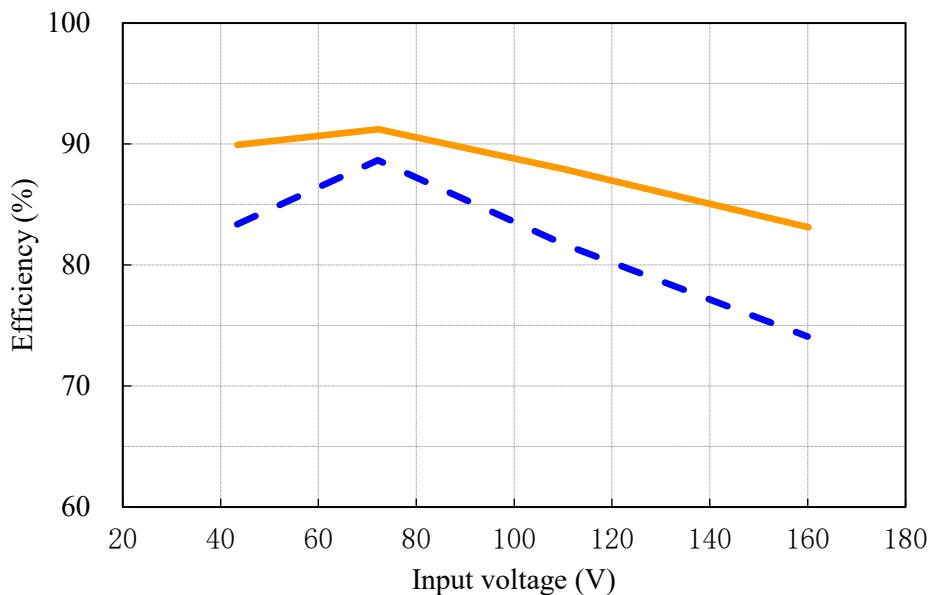


(4) 効率 対 入力電圧

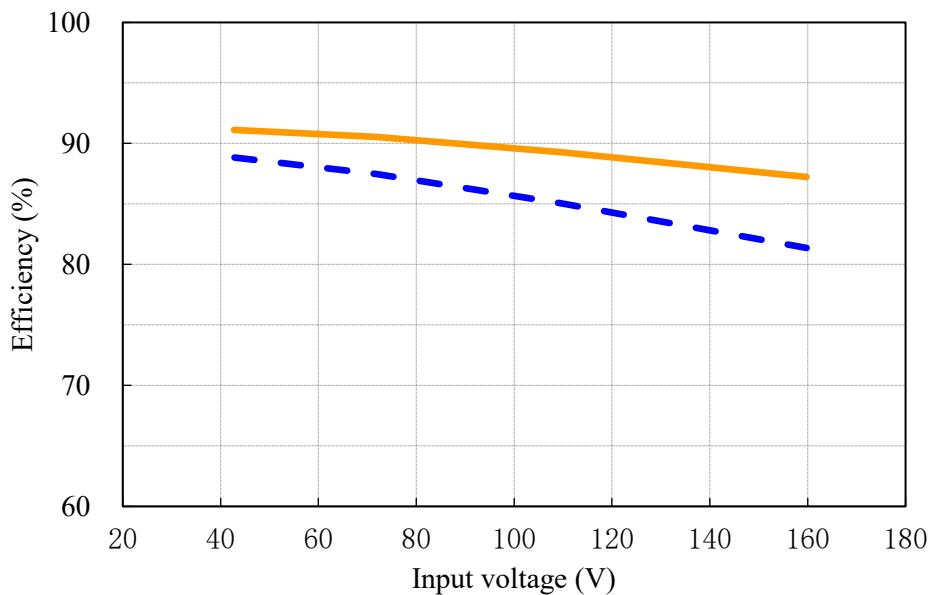
Efficiency vs. Input voltage

Conditions
Io : 50 %
: 100 %
Tbp : 25 °C

15V



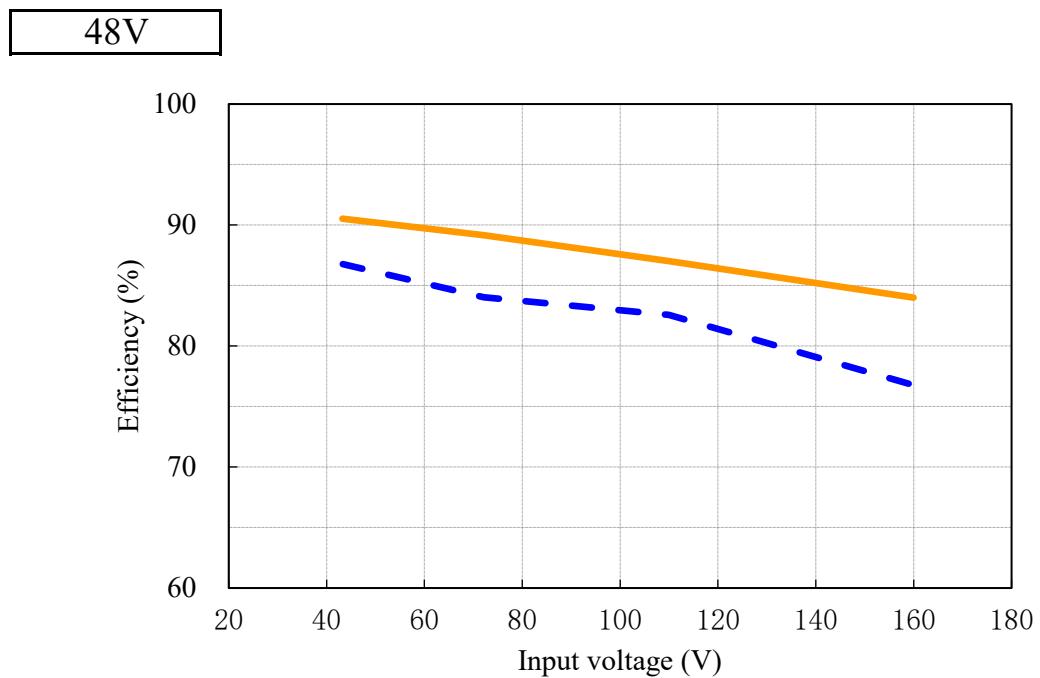
24V

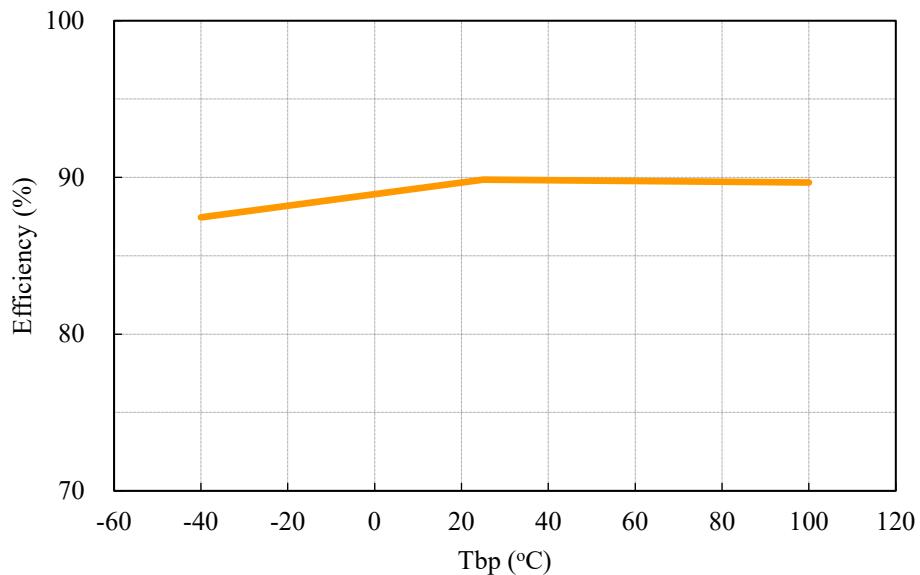
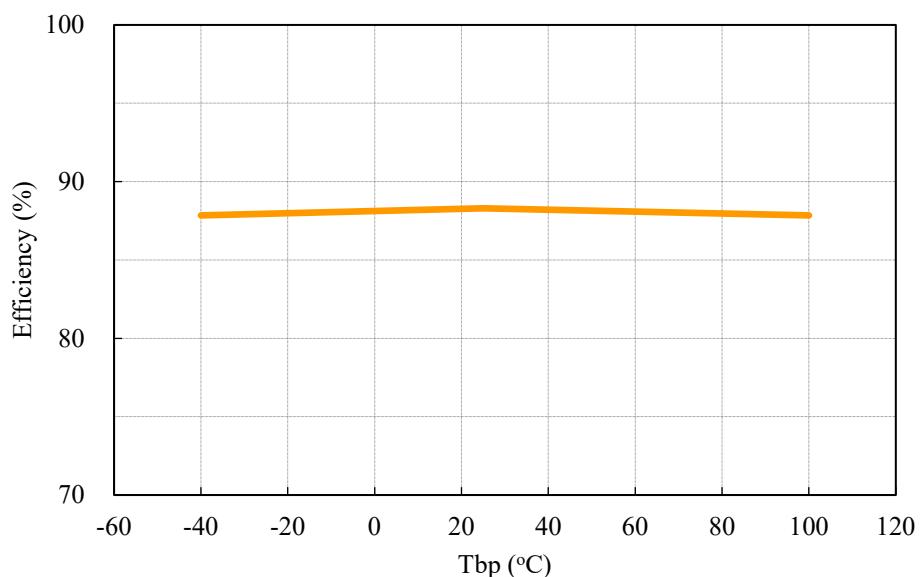


(4) 効率 対 入力電圧

Efficiency vs. Input voltage

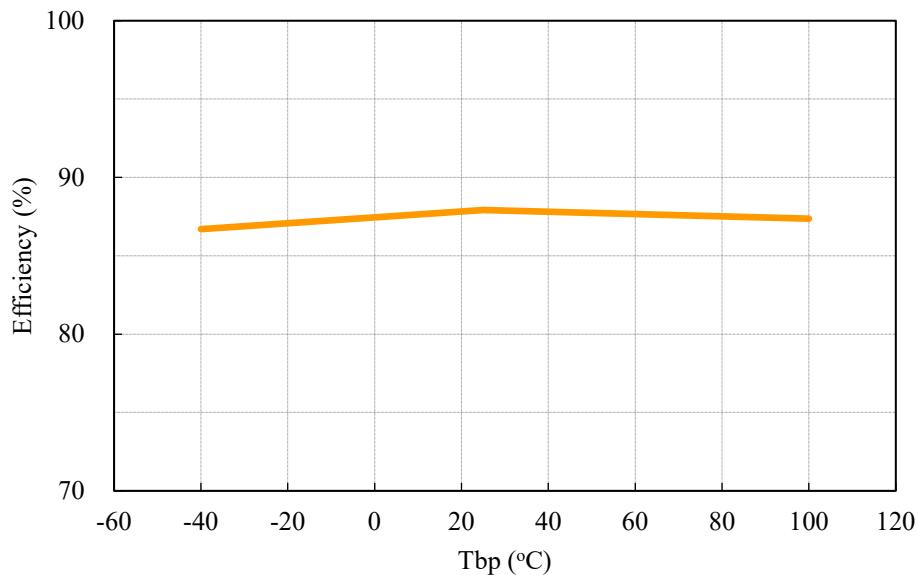
Conditions
Io : 50 %
: 100 %
Tbp : 25 °C



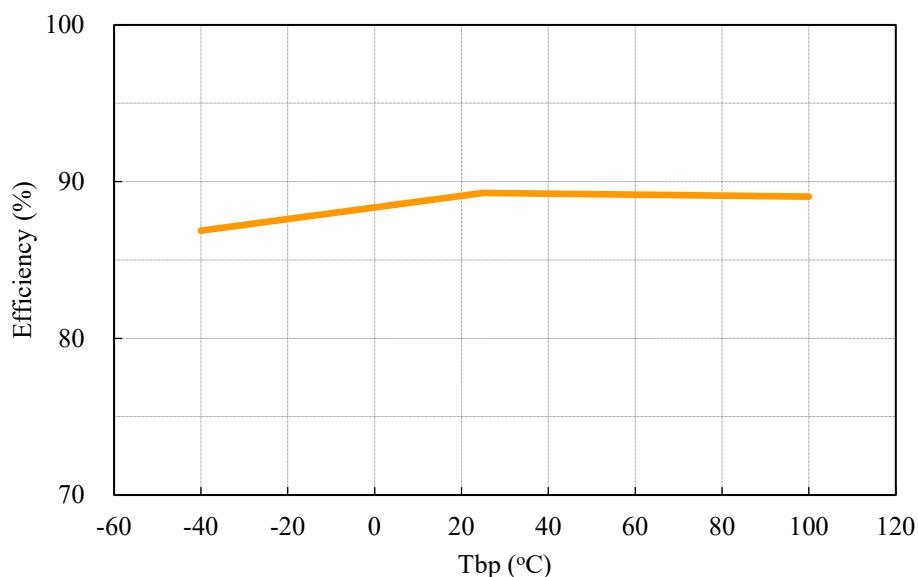
(5) 効率 対 ベースプレート温度
Efficiency vs. Base-plate temperatureConditions Vin : 110 VDC
 Io : 100 %**5V****12V**

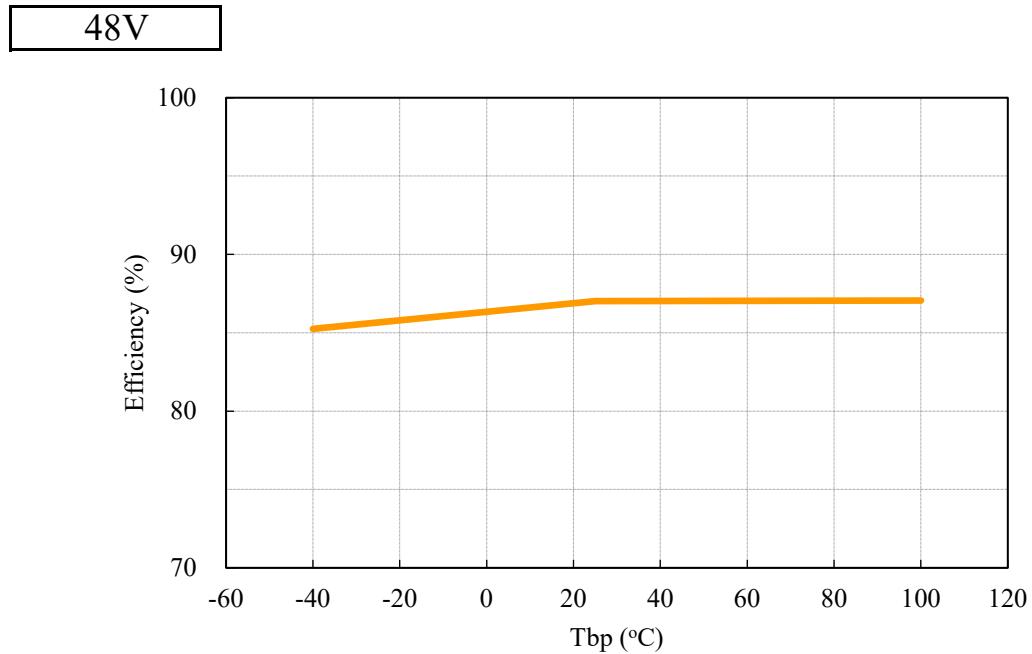
(5) 効率 対 ベースプレート温度
Efficiency vs. Base-plate temperatureConditions Vin : 110 VDC
 Io : 100 %

15V



24V



(5) 効率 対 ベースプレート温度
Efficiency vs. Base-plate temperatureConditions Vin : 110 VDC
 Io : 100 %

(6) 起動、停止電圧特性

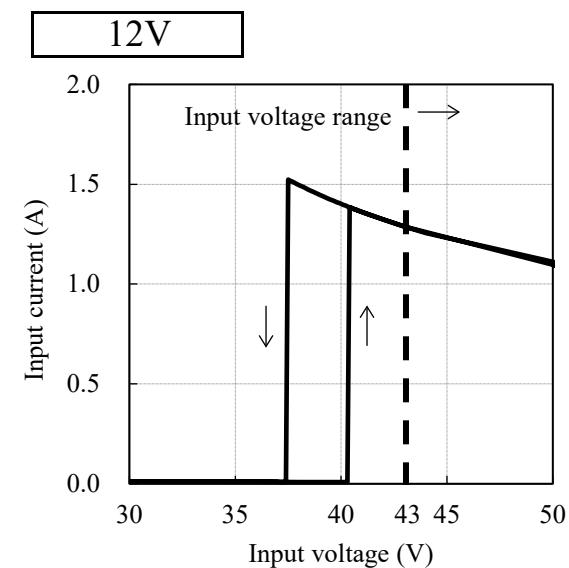
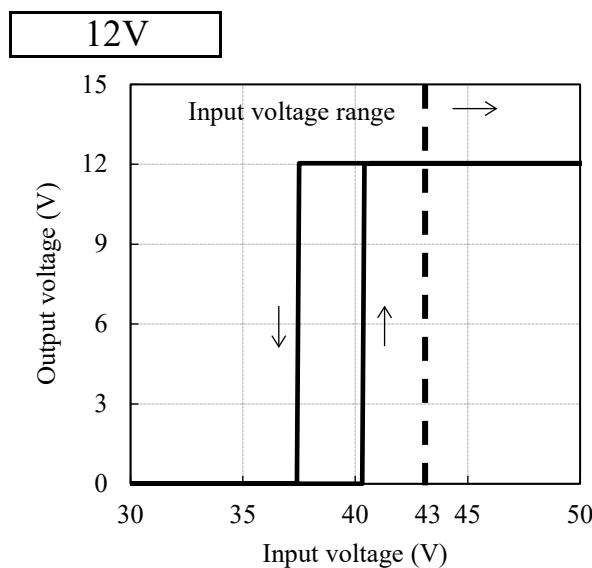
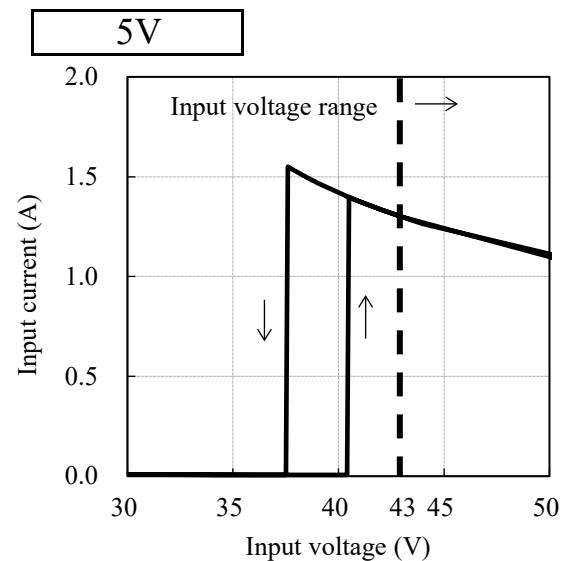
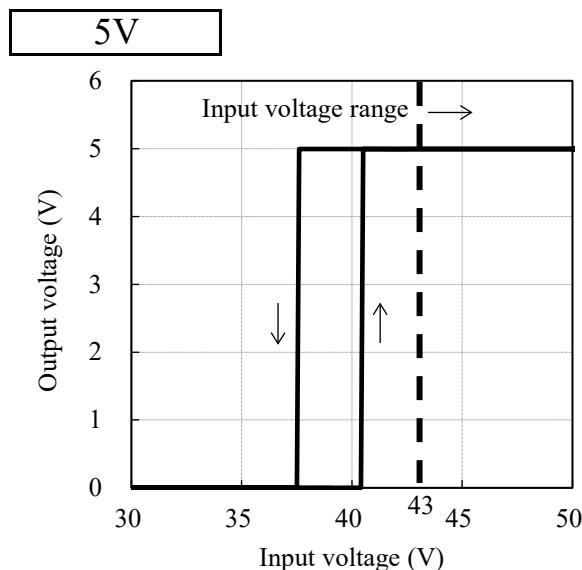
Start and Stop voltage characteristics

出力電圧 対 入力電圧
Output voltage vs. Input voltage

Conditions I_o : 100 %
 Tbp : 25 °C

入力電流 対 入力電圧
Input current vs. Input voltage

Conditions I_o : 100 %
 Tbp : 25 °C



(6) 起動、停止電圧特性

Start and Stop voltage characteristics

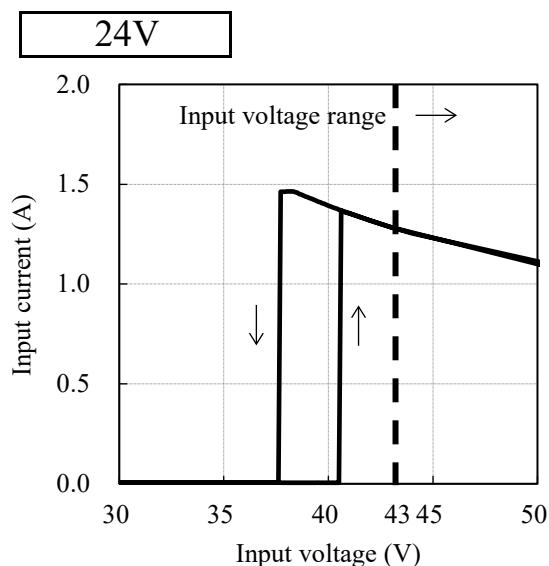
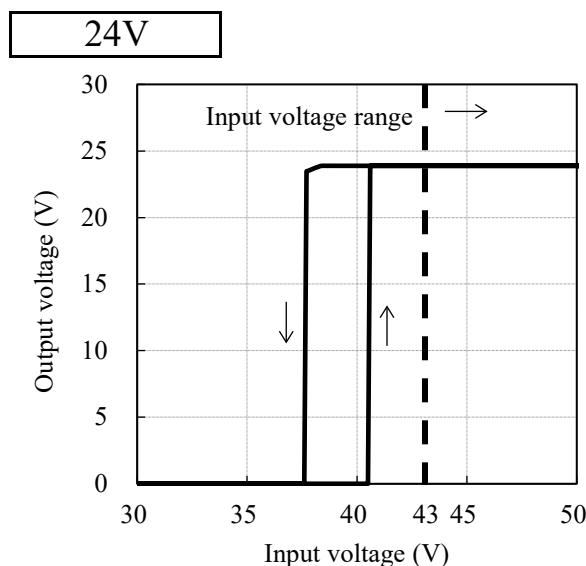
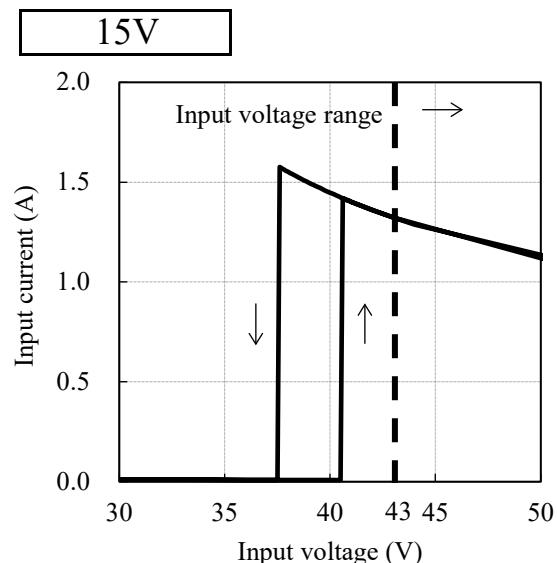
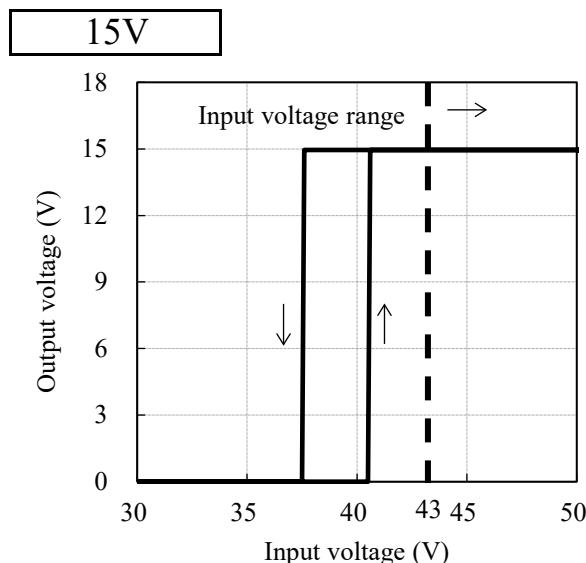
出力電圧 対 入力電圧

Output voltage vs. Input voltage

Conditions I_o : 100 %
 Tbp : 25 °C

入力電流 対 入力電圧

Input current vs. Input voltage

Conditions I_o : 100 %
 Tbp : 25 °C

(6) 起動、停止電圧特性

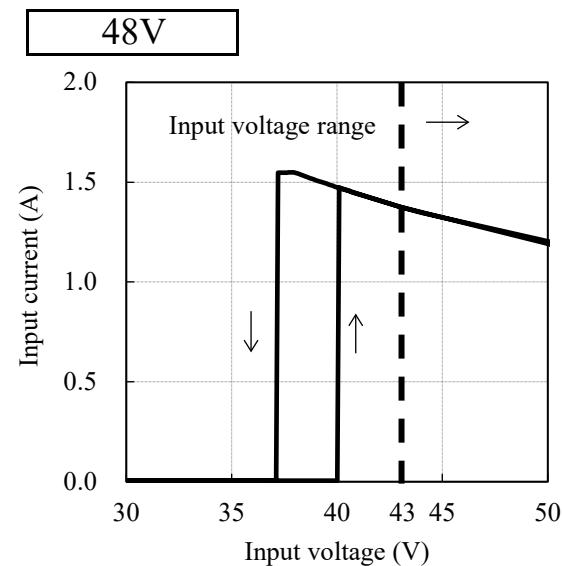
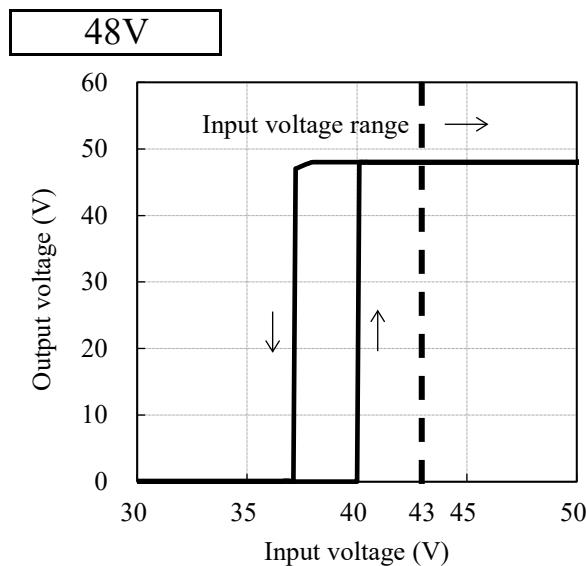
Start and Stop voltage characteristics

出力電圧 対 入力電圧
Output voltage vs. Input voltage

Conditions I_o : 100 %
 Tbp : 25 °C

入力電流 対 入力電圧
Input current vs. Input voltage

Conditions I_o : 100 %
 Tbp : 25 °C



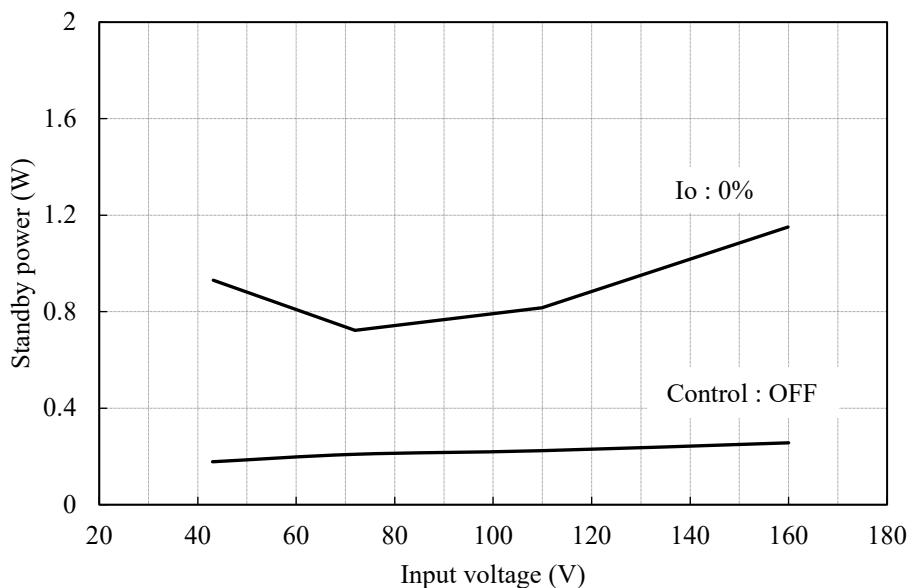
2.2 待機電力特性

Standby power characteristics

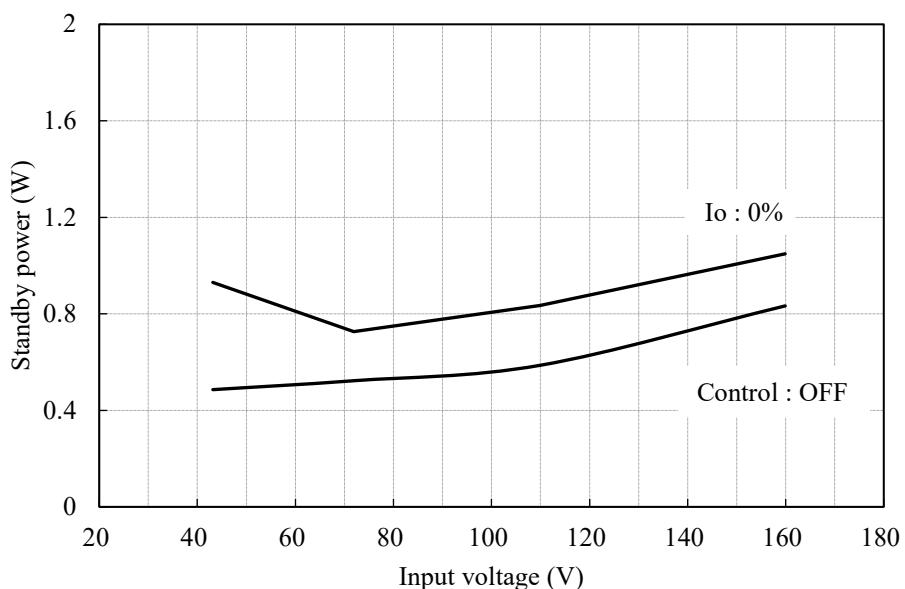
Conditions

Tbp: 25°C

5V



12V



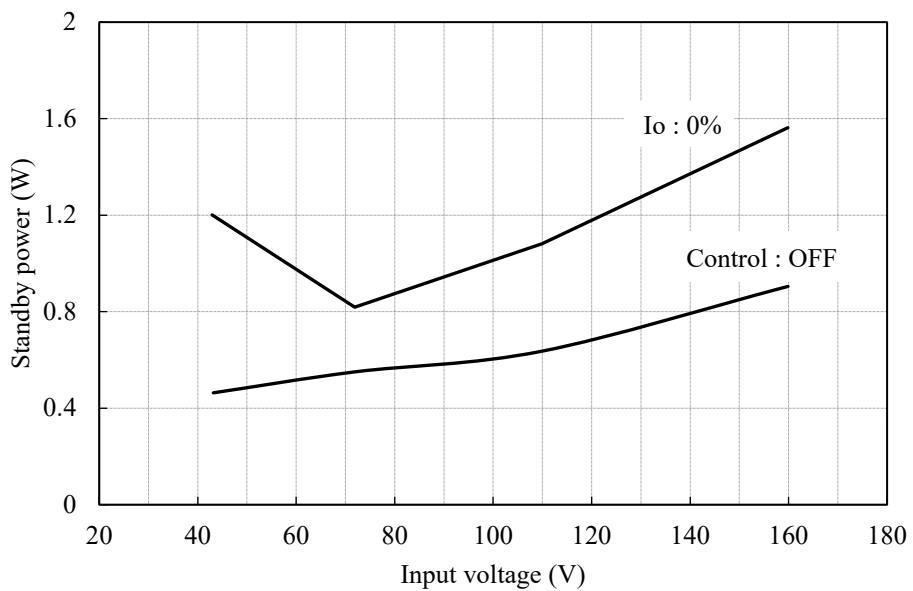
2.2 待機電力特性

Standby power characteristics

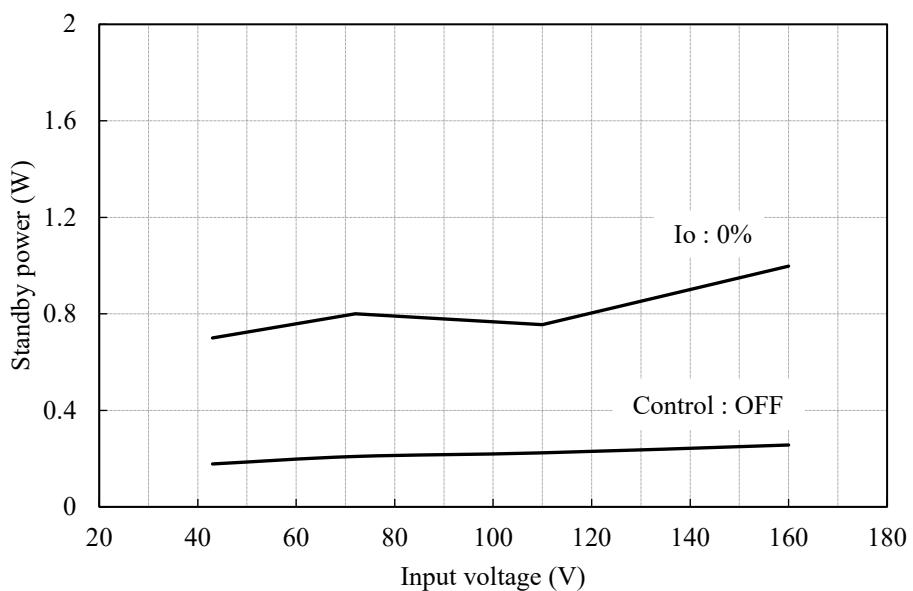
Conditions

Tbp: 25°C

15V



24V



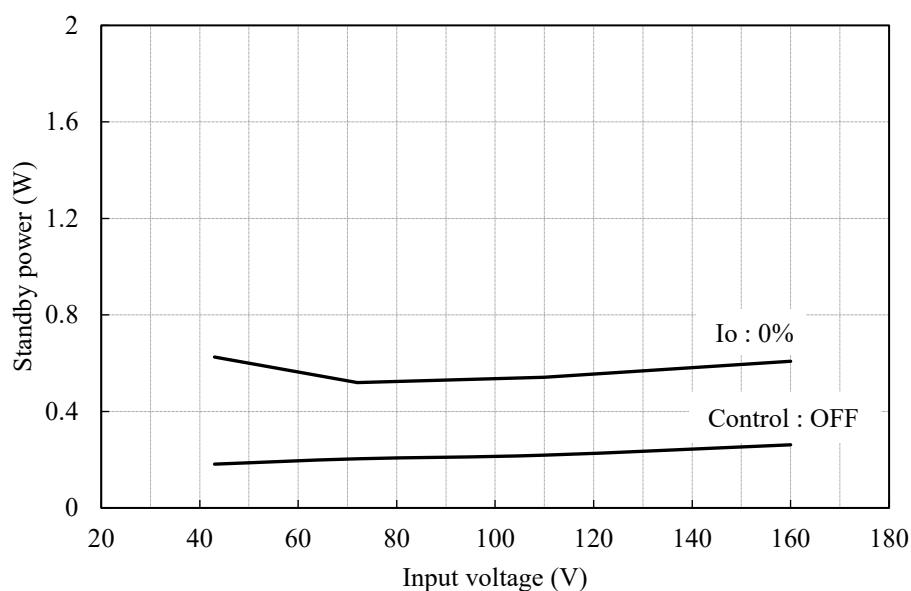
2.2 待機電力特性

Standby power characteristics

Conditions

Tbp: 25°C

48V



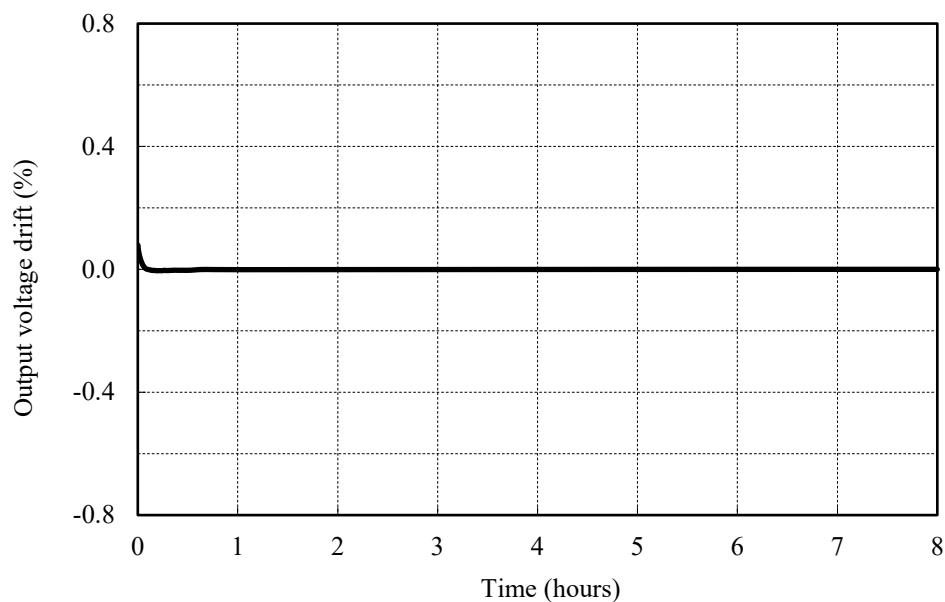
2.3 通電ドリフト特性

Warm up voltage drift characteristics

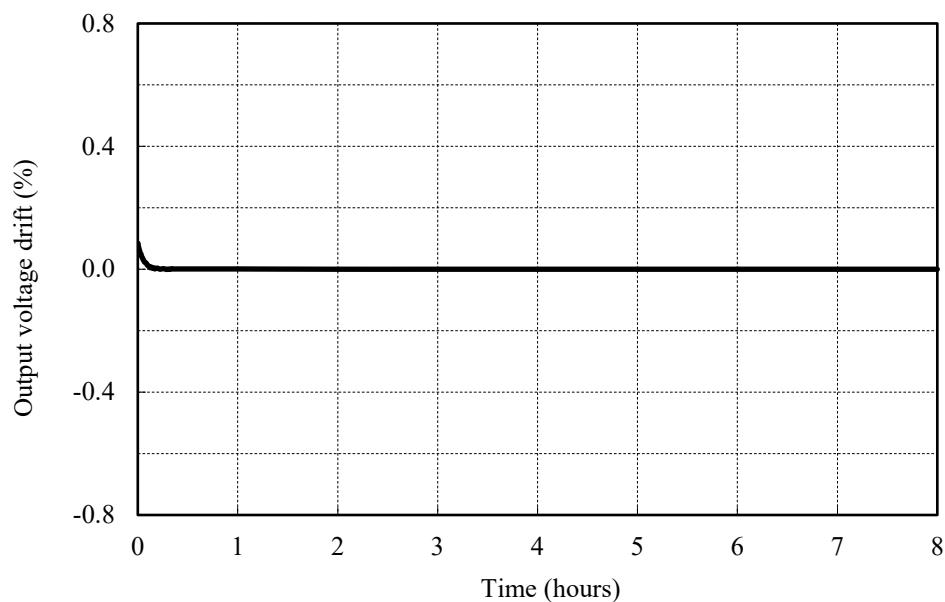
Conditions

Vin : 110VDC
Io : 100%
Ta : 25°C

5V



12V



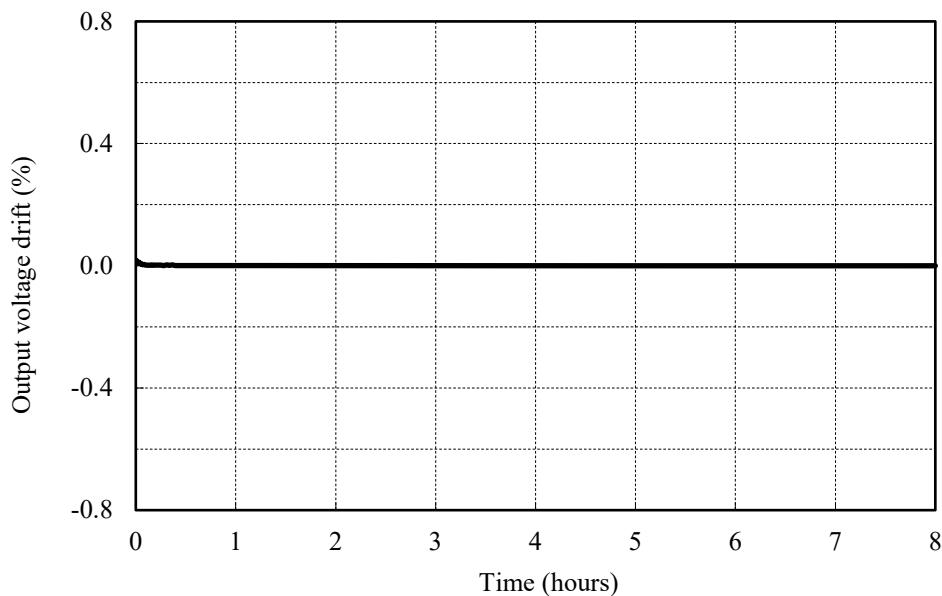
2.3 通電ドリフト特性

Warm up voltage drift characteristics

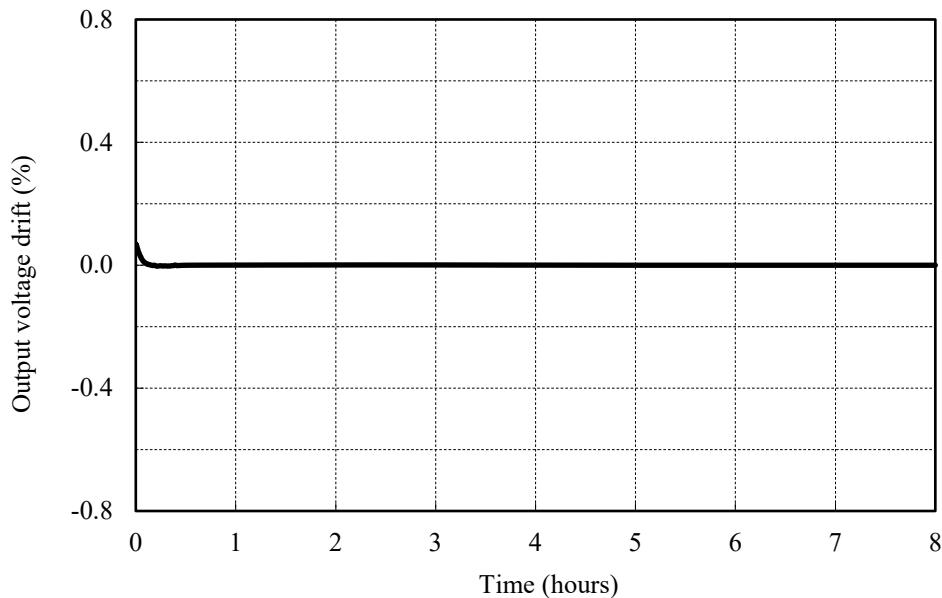
Conditions

Vin : 110VDC
Io : 100%
Ta : 25°C

15V



24V



2.3 通電ドリフト特性

Warm up voltage drift characteristics

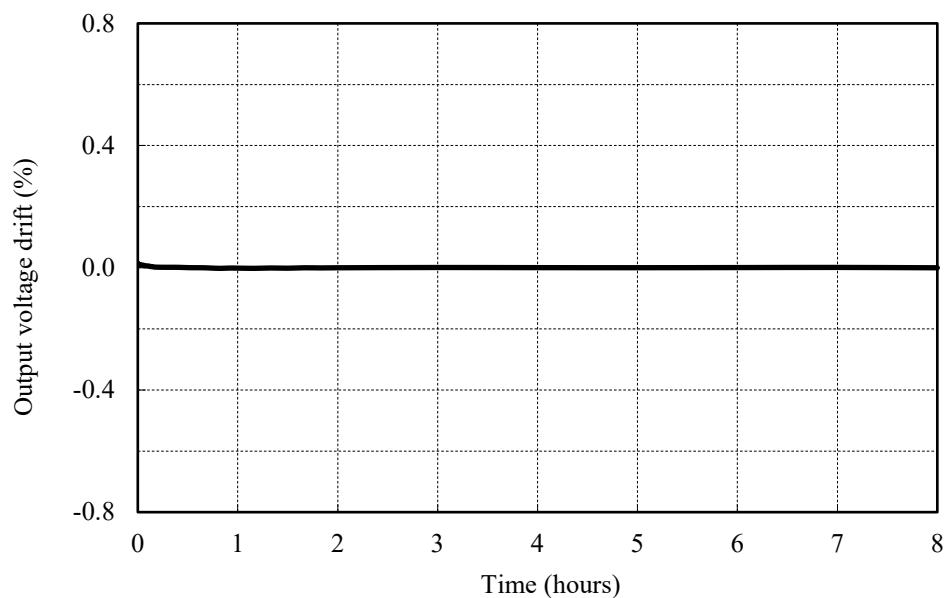
Conditions

Vin : 110VDC

Io : 100%

Ta : 25°C

48V



2.4 過電流保護特性

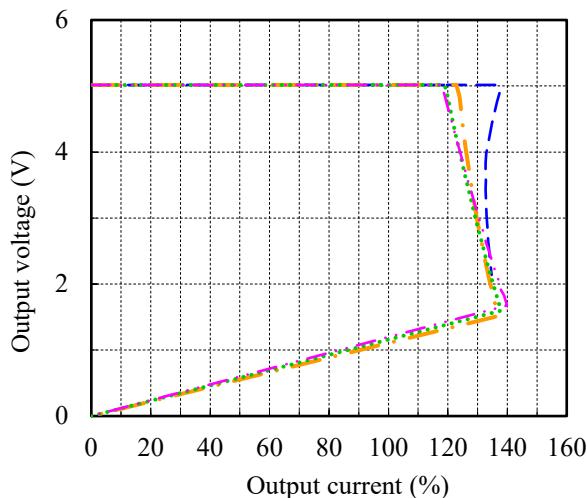
Over current protection (OCP) characteristics

入力電圧依存性

Input voltage dependence

Conditions Vin : 43 VDC
 : 72 VDC
 : 110 VDC
 : 160 VDC
 Tbp : 25 °C

5V

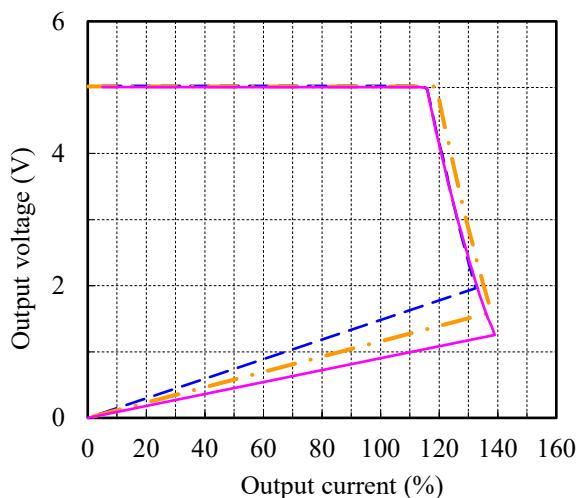


ベースプレート温度依存性

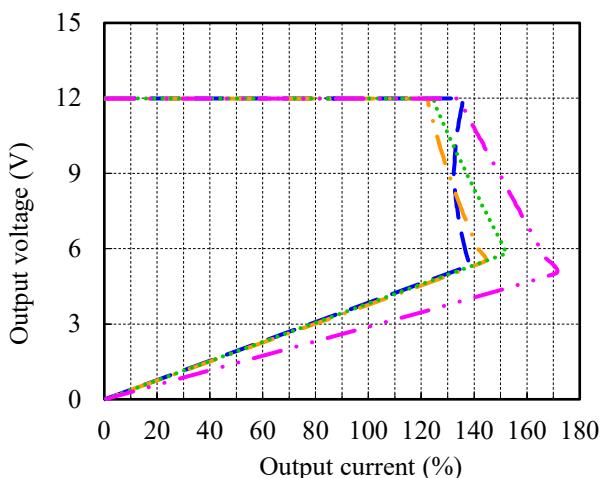
Base-plate temperature dependence

Conditions Vin : 110 VDC
 Tbp : -40 °C
 : 25 °C
 : 100 °C

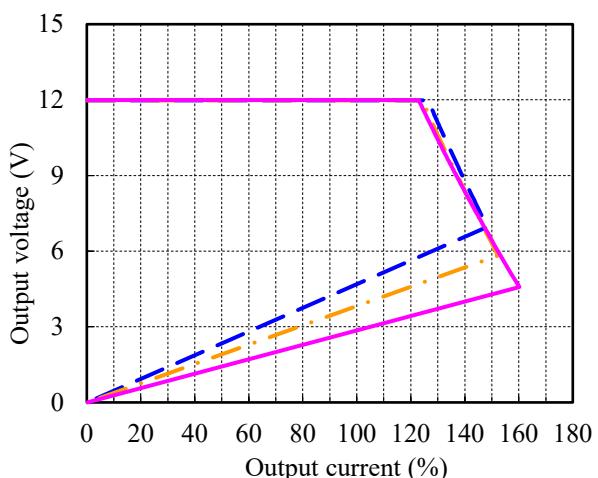
5V



12V



12V



2.4 過電流保護特性

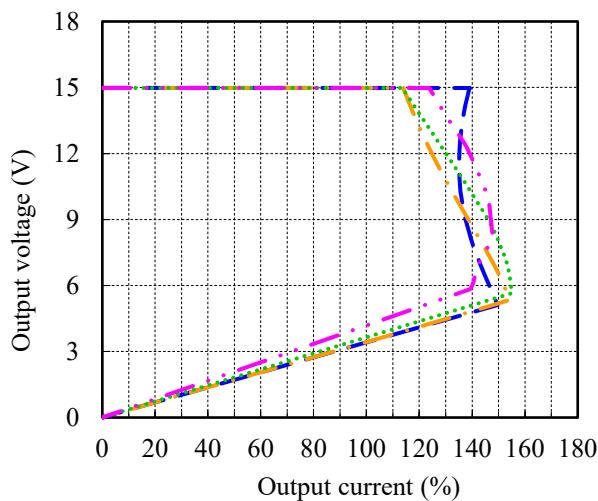
Over current protection (OCP) characteristics

入力電圧依存性

Input voltage dependence

Conditions Vin : 43 VDC
 : 72 VDC
 : 110 VDC
 : 160 VDC
 Tbp : 25 °C

15V

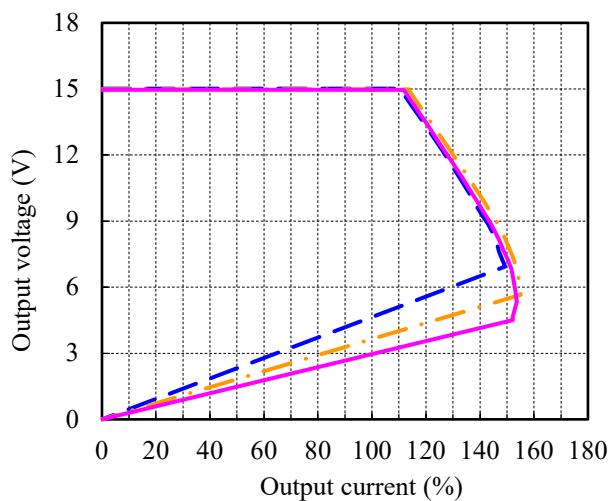


ベースプレート温度依存性

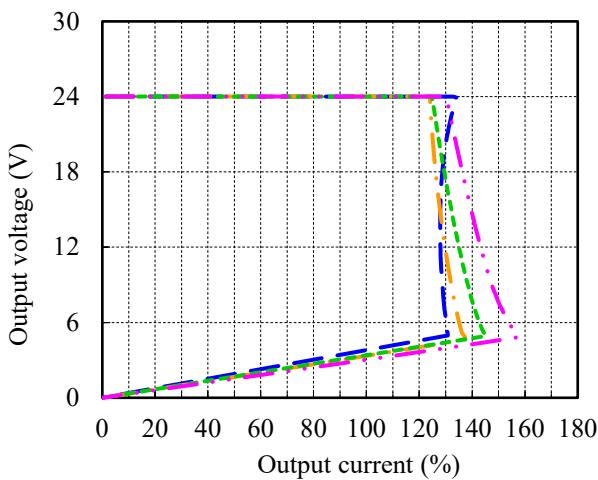
Base-plate temperature dependence

Conditions Vin : 110 VDC
 Tbp : -40 °C
 : 25 °C
 : 100 °C

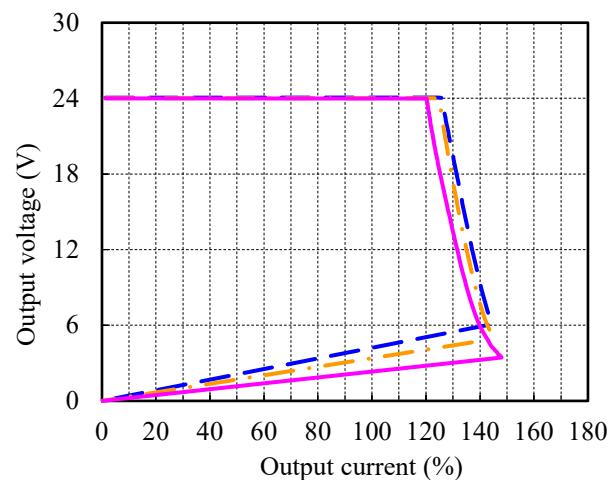
15V



24V



24V



2.4 過電流保護特性

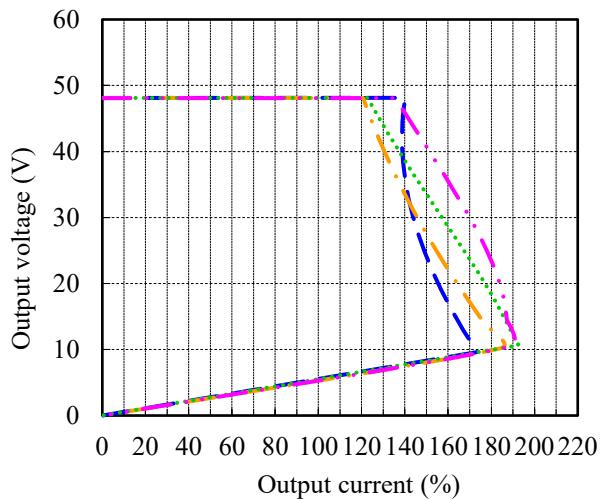
Over current protection (OCP) characteristics

入力電圧依存性

Input voltage dependence

Conditions Vin : 43 VDC
 : 72 VDC
 : 110 VDC
 : 160 VDC
 Tbp : 25 °C

48V

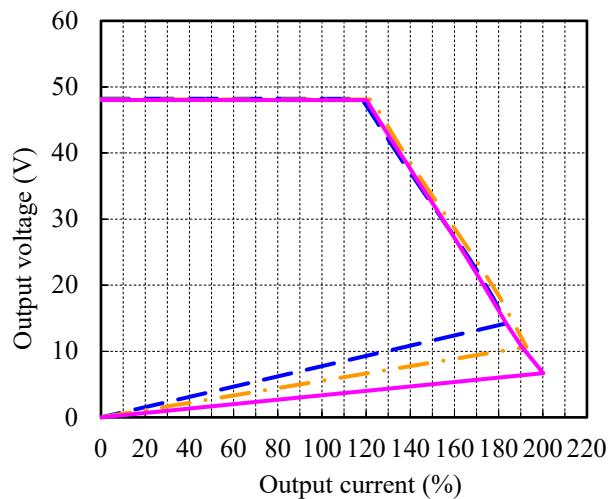


ベースプレート温度依存性

Base-plate temperature dependence

Conditions Vin : 110 VDC
 Tbp : -40 °C
 : 25 °C
 : 100 °C

48V



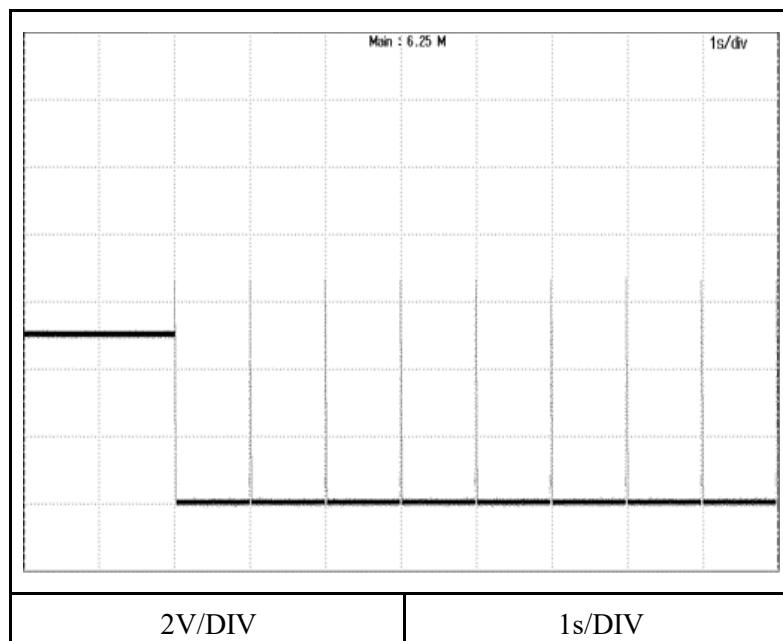
2.5 過電圧保護特性

Over voltage protection (OVP) characteristics

Conditions Vin : 110 VDC
 Io : 1%
 Tbp : 25 °C

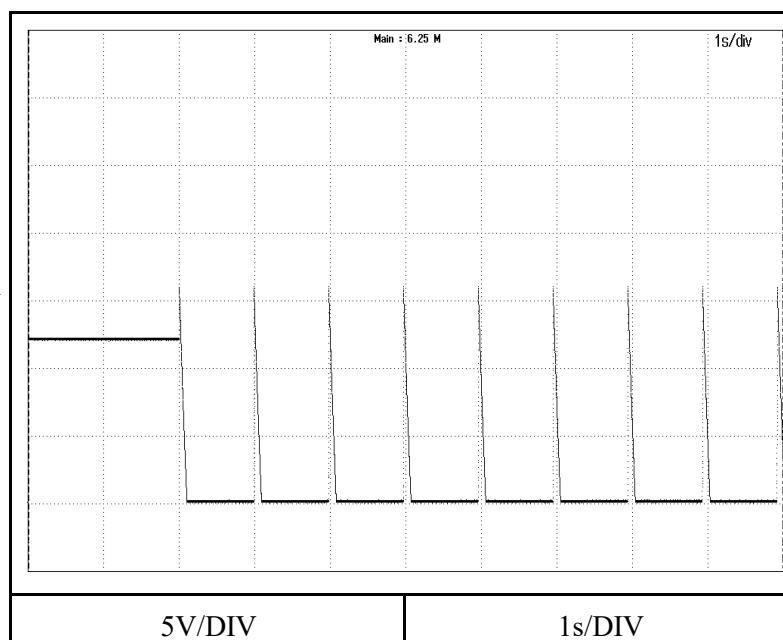
5V

OVP point →
 Vo →
 GND →



12V

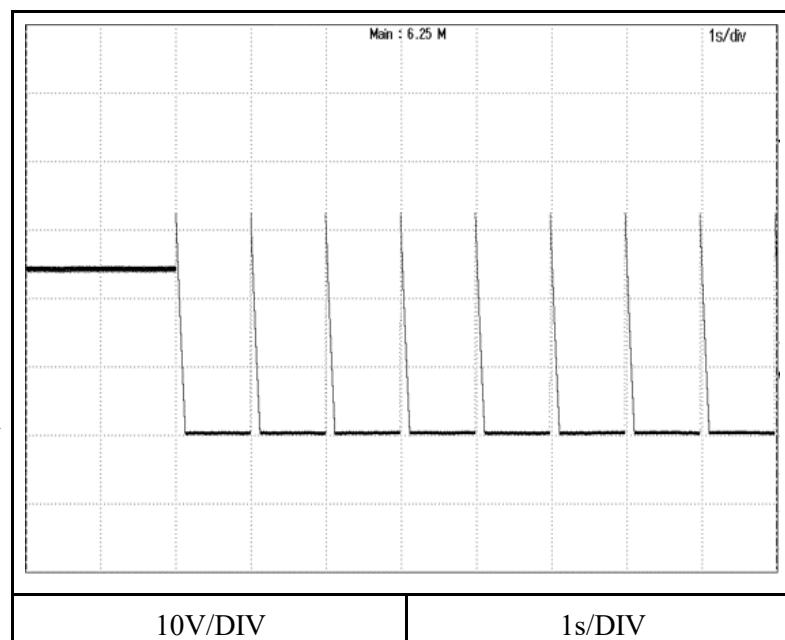
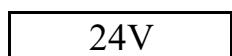
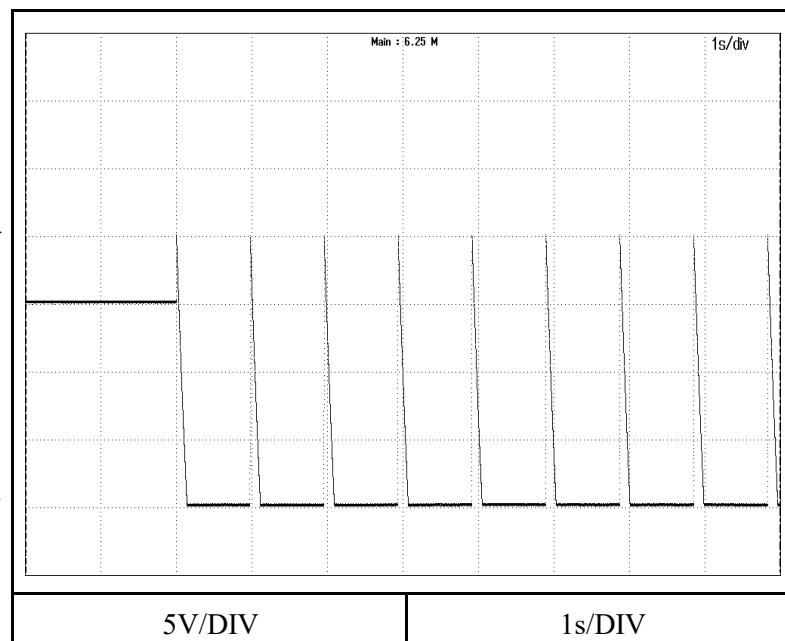
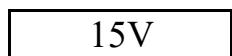
OVP point →
 Vo →
 GND →



2.5 過電圧保護特性

Over voltage protection (OVP) characteristics

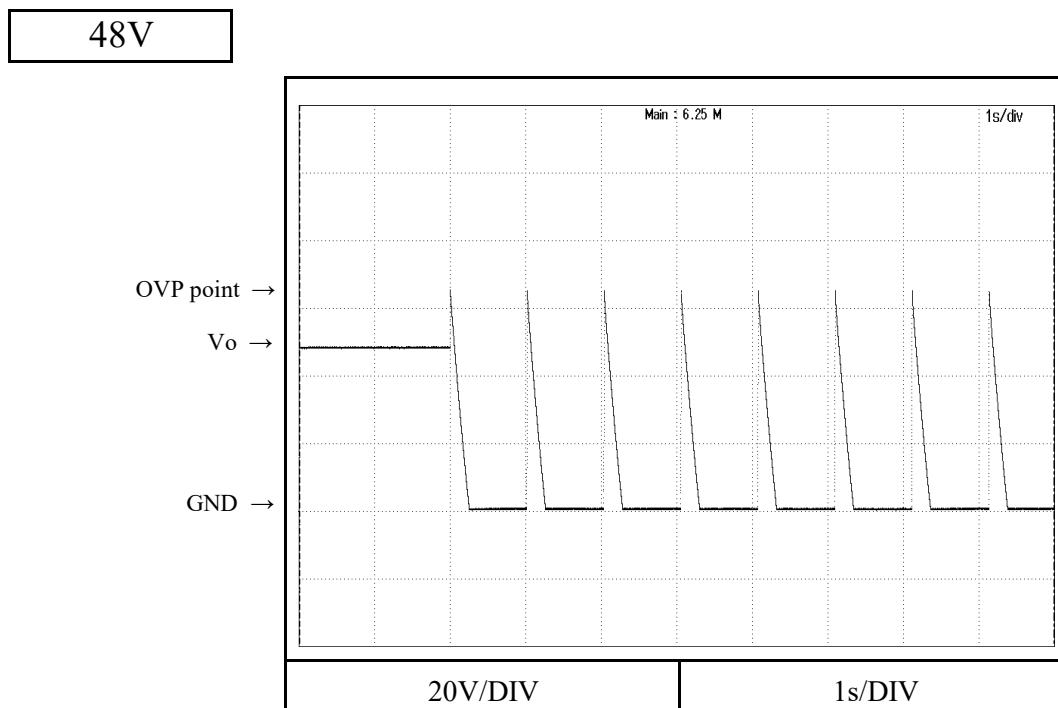
Conditions Vin : 110 VDC
 Io : 1%
 Tbp : 25 °C



2.5 過電圧保護特性

Over voltage protection (OVP) characteristics

Conditions Vin : 110 VDC
 Io : 1%
 Tbp : 25 °C



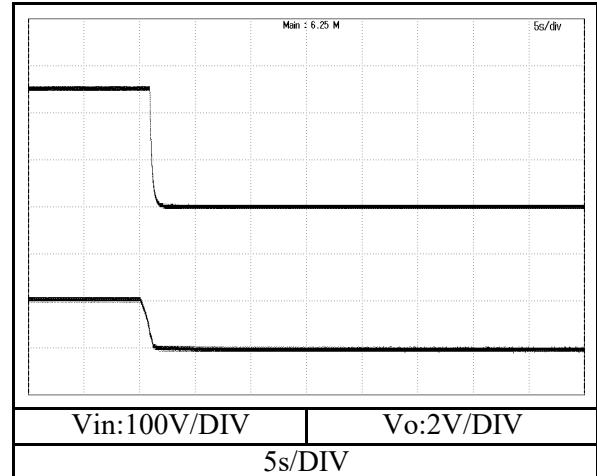
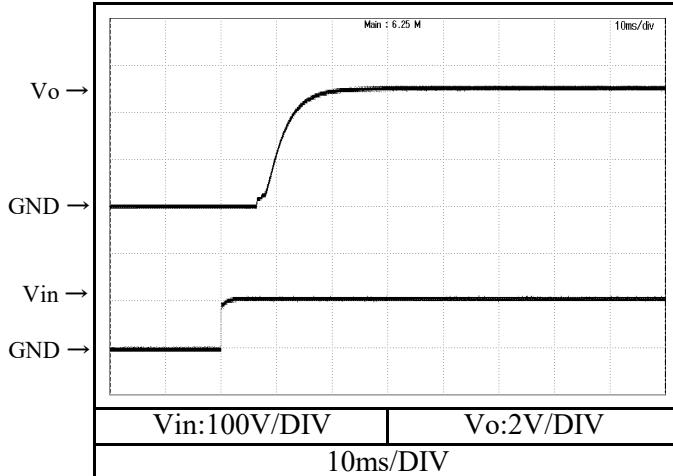
2.6 出力立ち上がり、立ち下がり特性

Output rise and fall characteristics

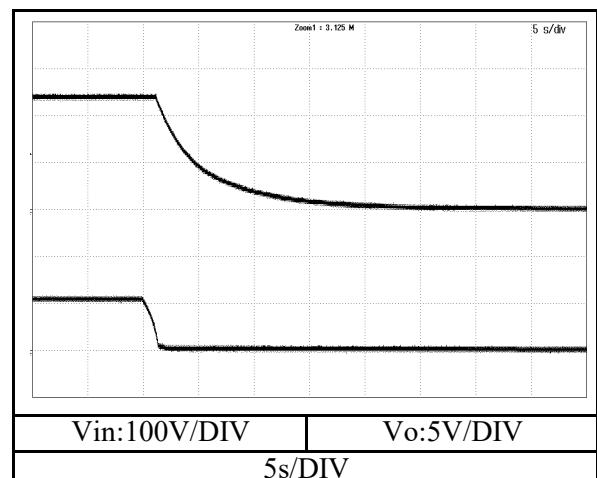
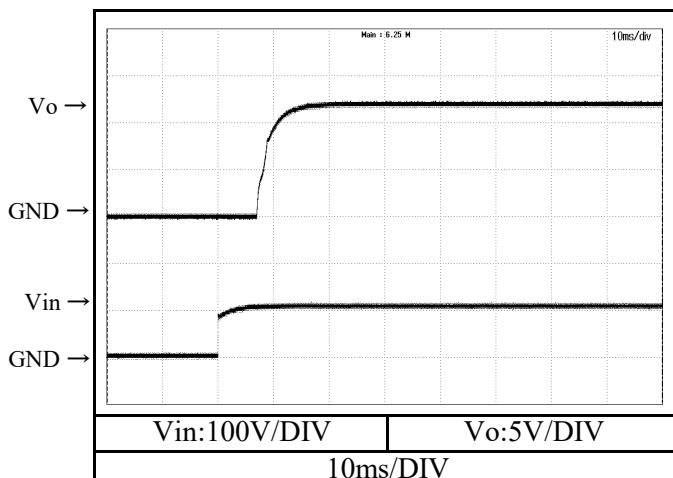
Conditions

Vin : 110 VDC
Io : 0 %
Tbp : 25°C

5V



12V



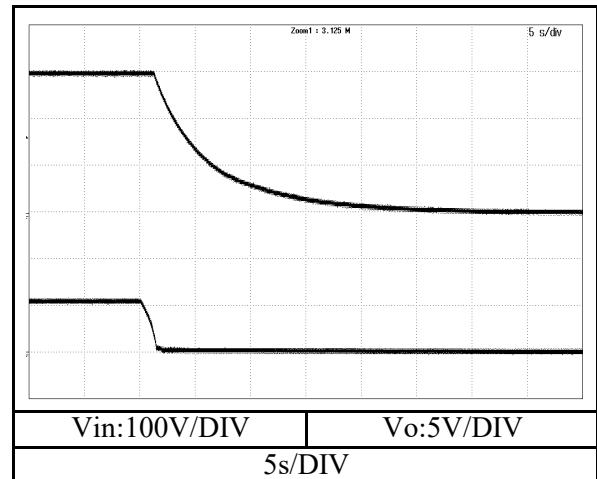
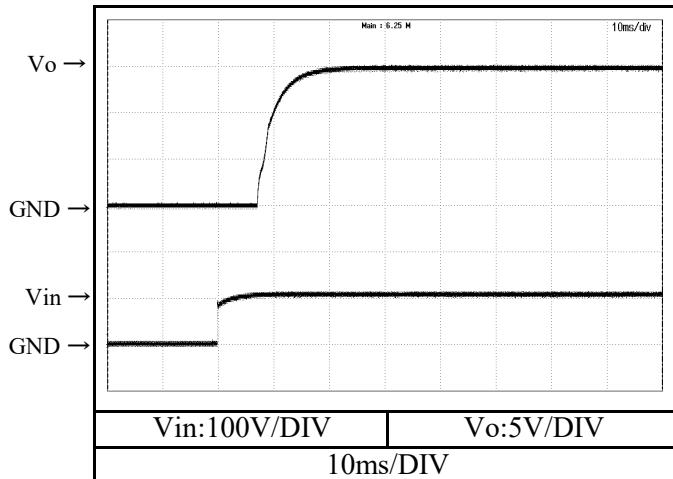
2.6 出力立ち上がり、立ち下がり特性

Output rise and fall characteristics

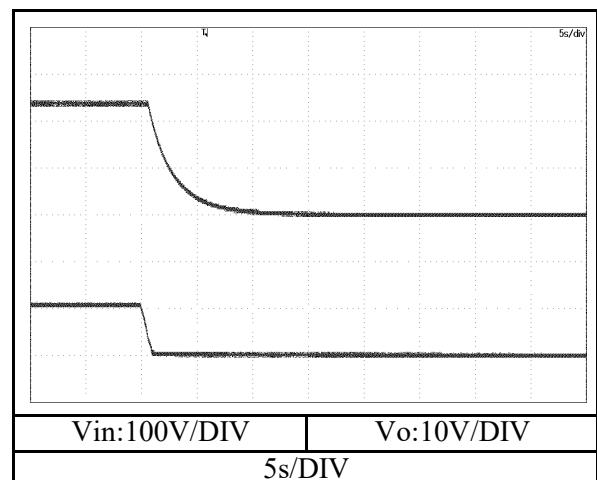
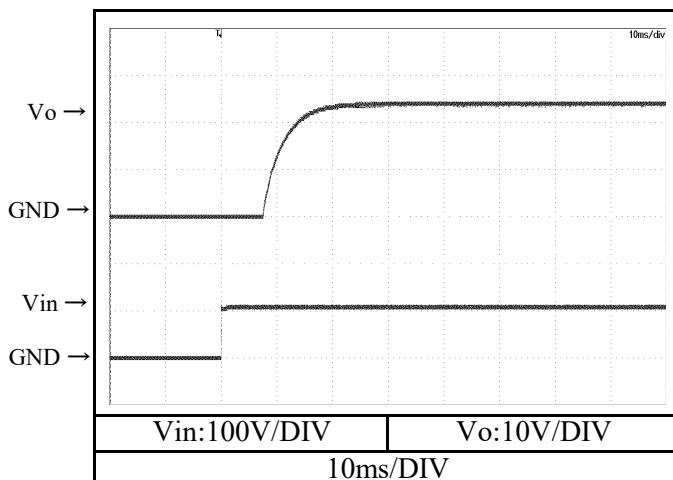
Conditions

Vin : 110 VDC
Io : 0 %
Tbp : 25°C

15V



24V

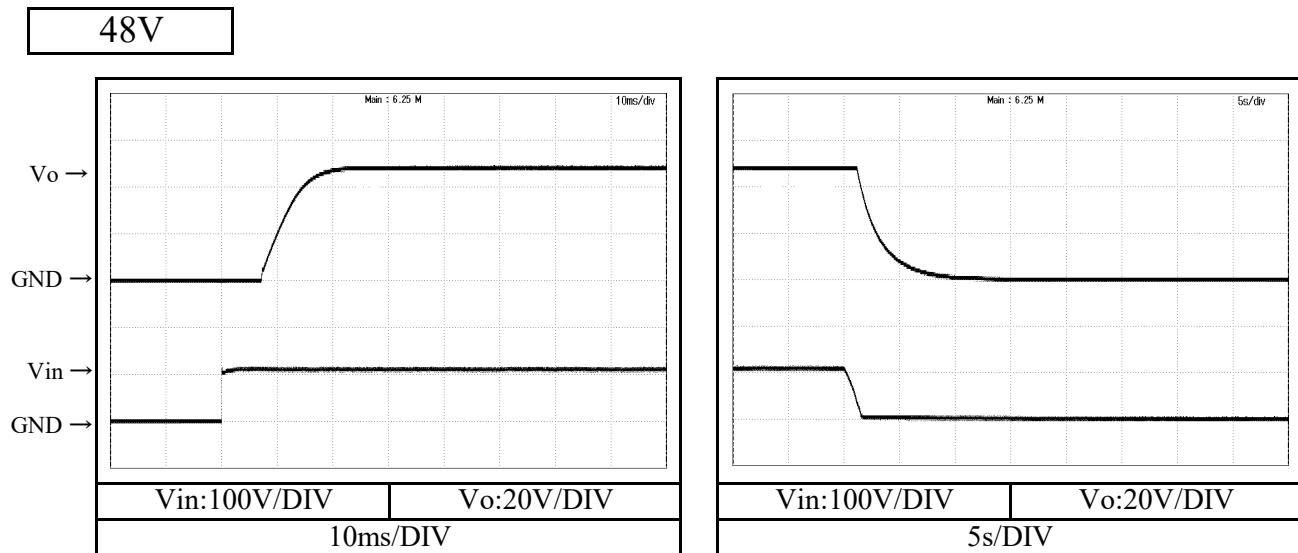


2.6 出力立ち上がり、立ち下がり特性

Output rise and fall characteristics

Conditions

Vin : 110 VDC
Io : 0 %
Tbp : 25°C



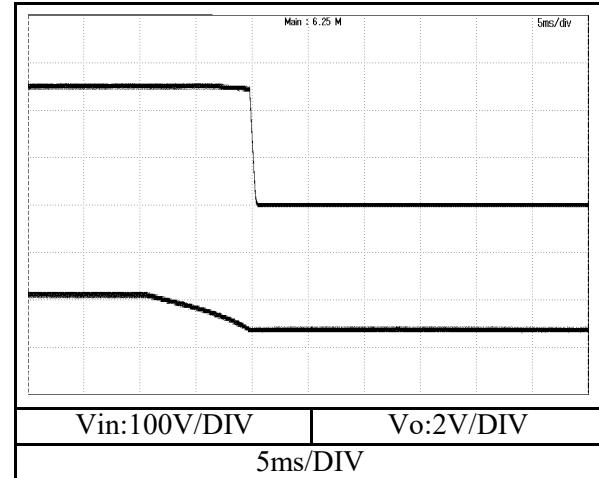
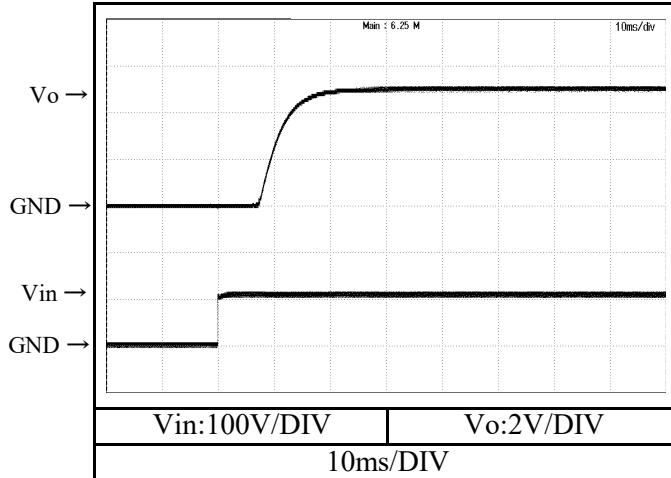
2.6 出力立ち上がり、立ち下がり特性

Output rise and fall characteristics

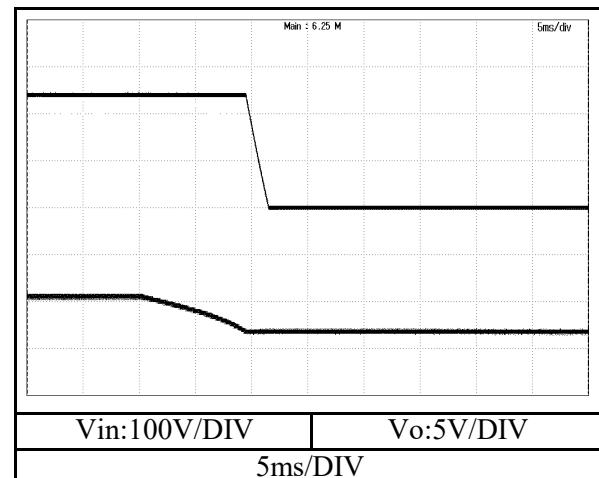
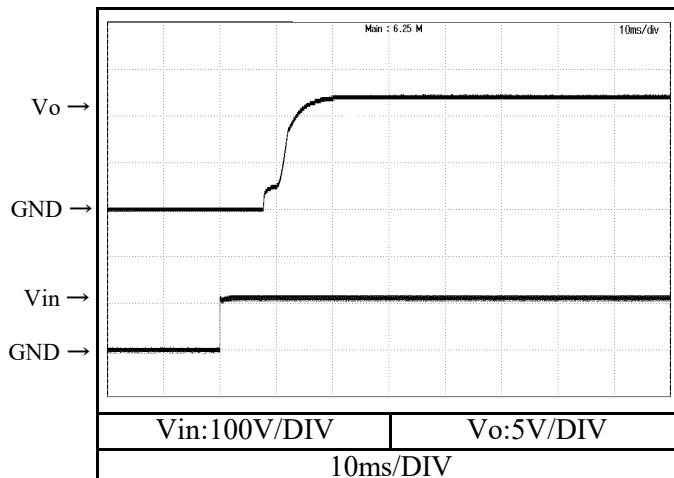
Conditions

Vin : 110 VDC
Io : 100 %
Tbp : 25°C

5V



12V



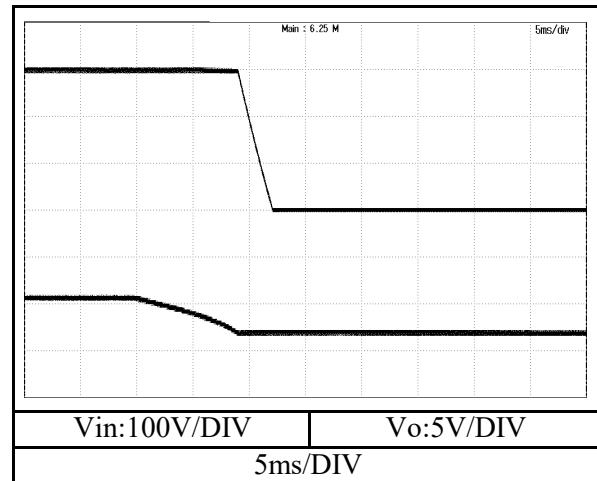
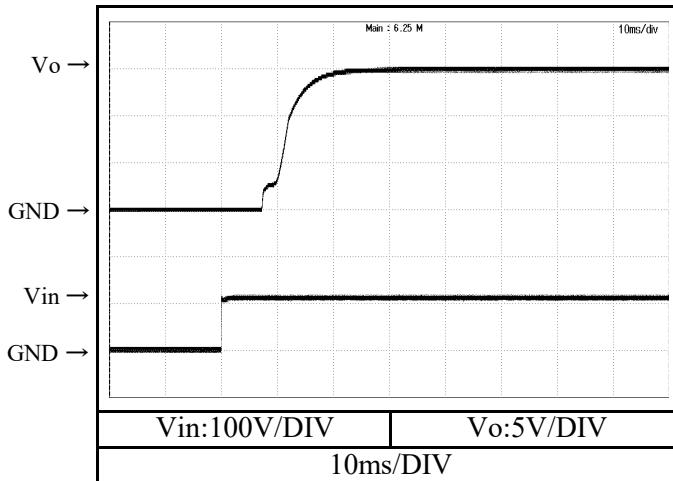
2.6 出力立ち上がり、立ち下がり特性

Output rise and fall characteristics

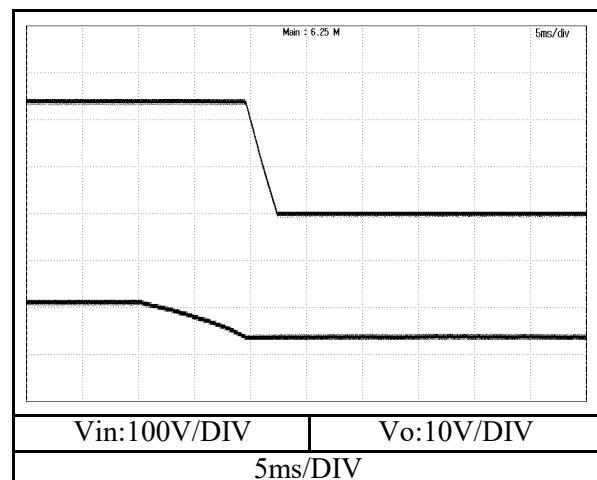
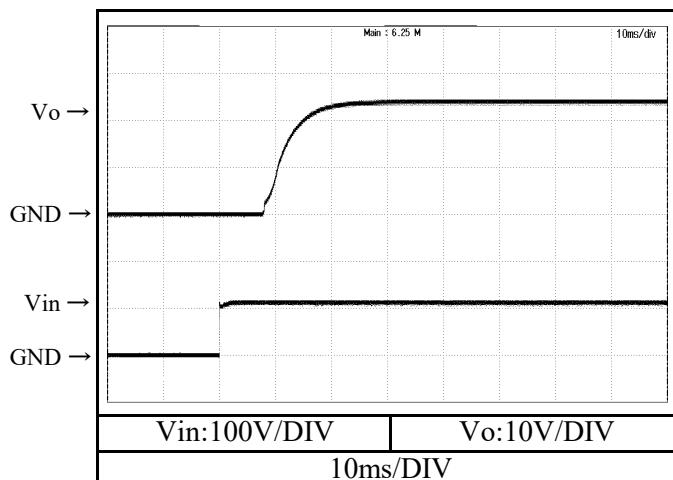
Conditions

Vin : 110 VDC
Io : 100 %
Tbp : 25°C

15V



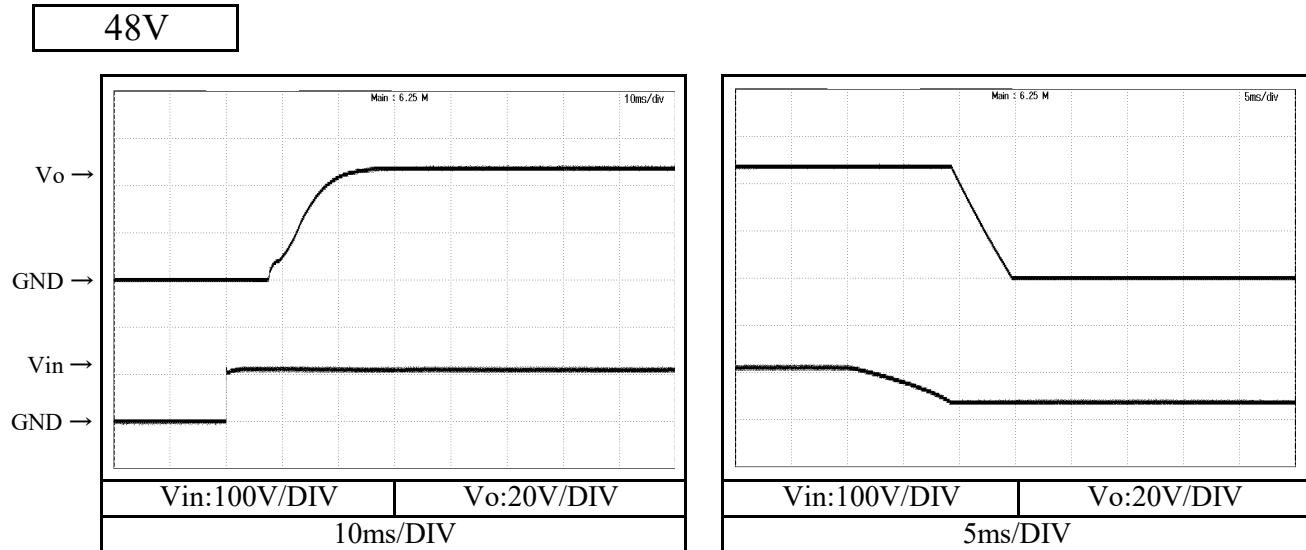
24V



2.6 出力立ち上がり、立ち下がり特性
Output rise and fall characteristics

Conditions

Vin : 110 VDC
Io : 100 %
Tbp : 25°C



2.6 出力立ち上がり、立ち下がり特性 (ON/OFFコントロール時)

Output rise and fall characteristics with ON/OFF CONTROL

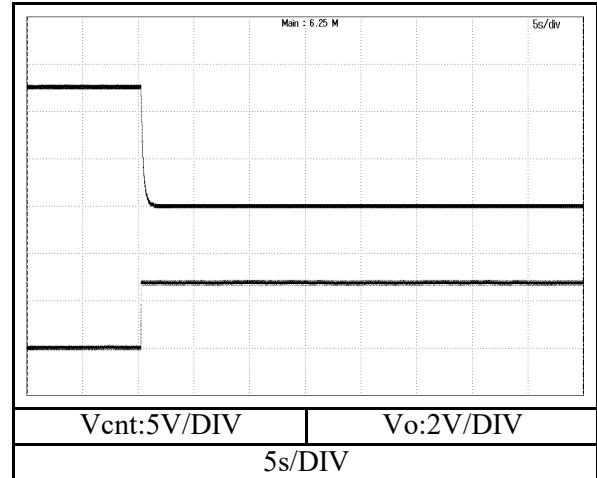
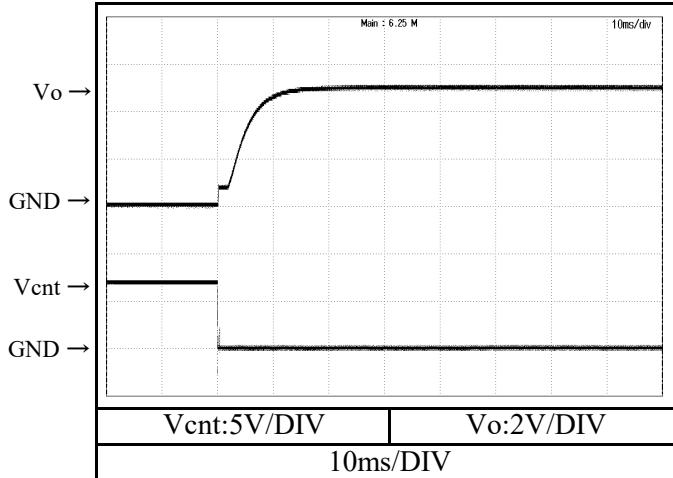
Conditions

Vin : 110 VDC

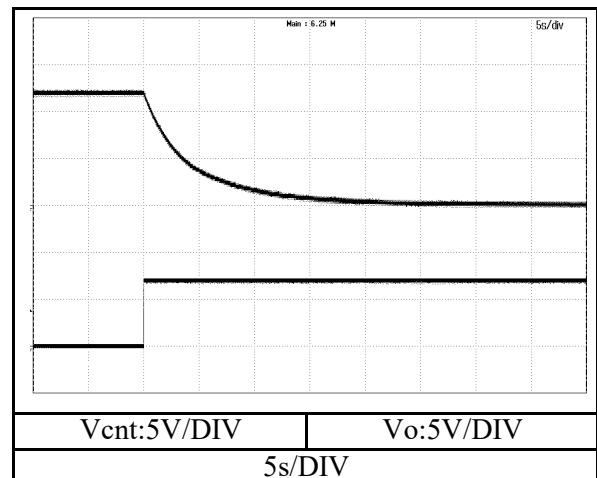
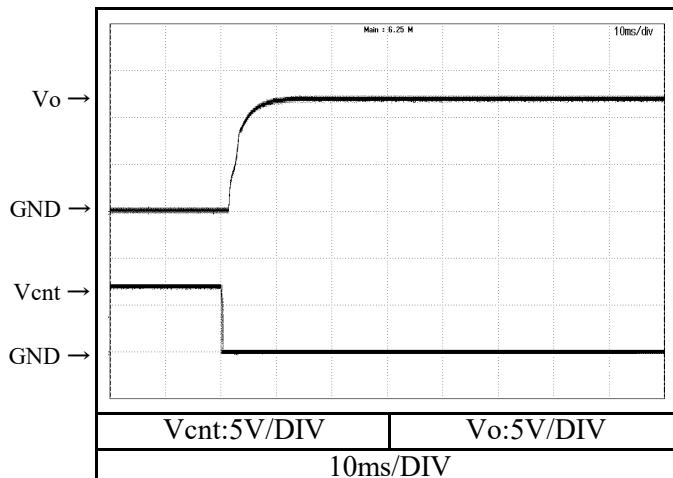
Io : 0 %

Tbp : 25°C

5V



12V



2.6 出力立ち上がり、立ち下がり特性 (ON/OFFコントロール時)

Output rise and fall characteristics with ON/OFF CONTROL

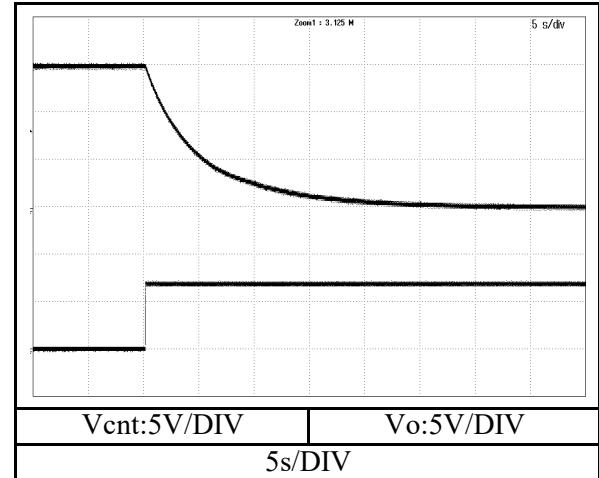
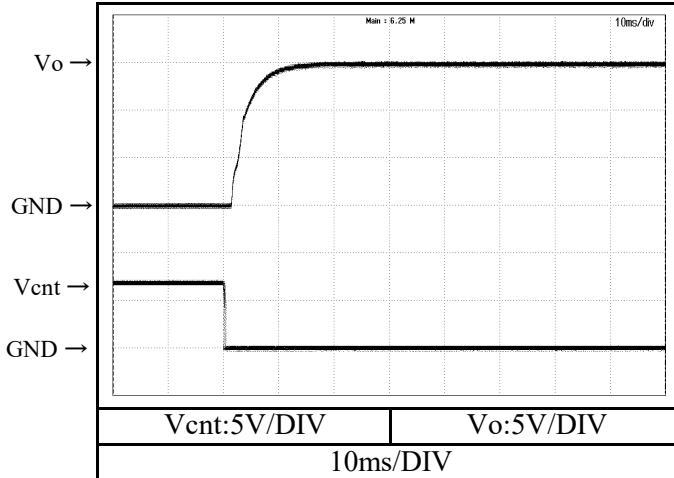
Conditions

Vin : 110 VDC

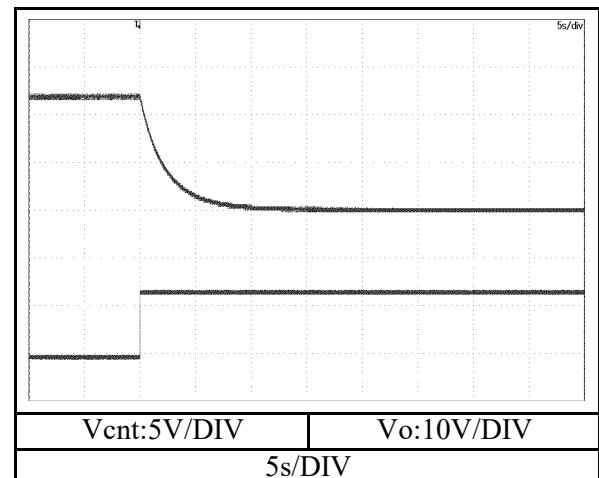
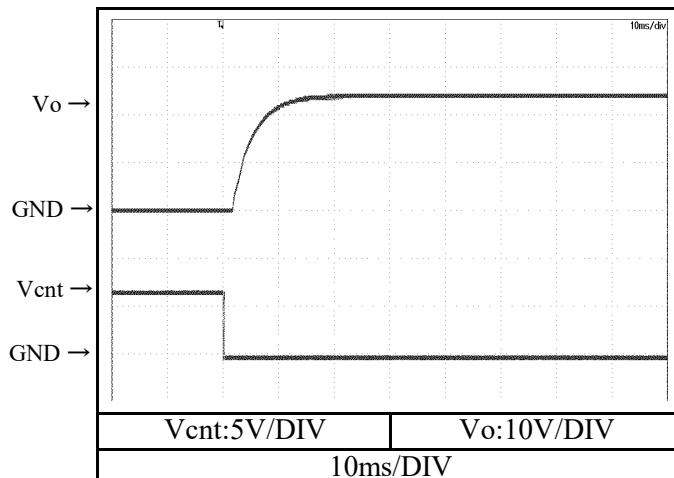
Io : 0 %

Tbp : 25°C

15V



24V



2.6 出力立ち上がり、立ち下がり特性 (ON/OFFコントロール時)

Output rise and fall characteristics with ON/OFF CONTROL

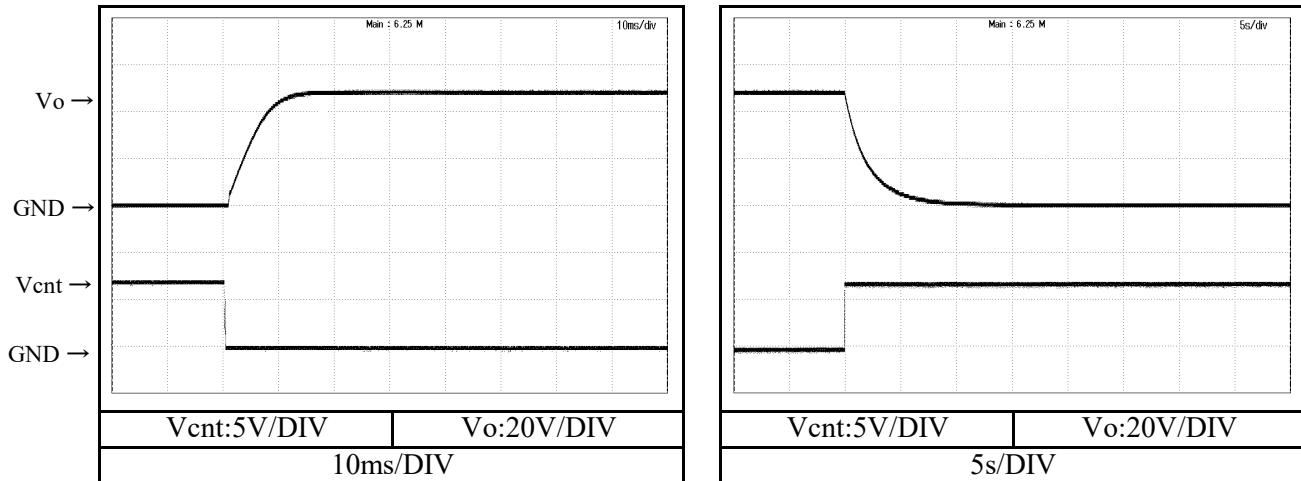
Conditions

Vin : 110 VDC

Io : 0 %

Tbp : 25°C

48V



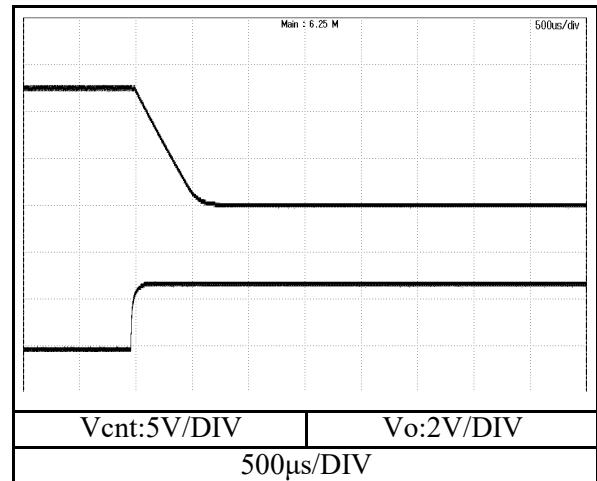
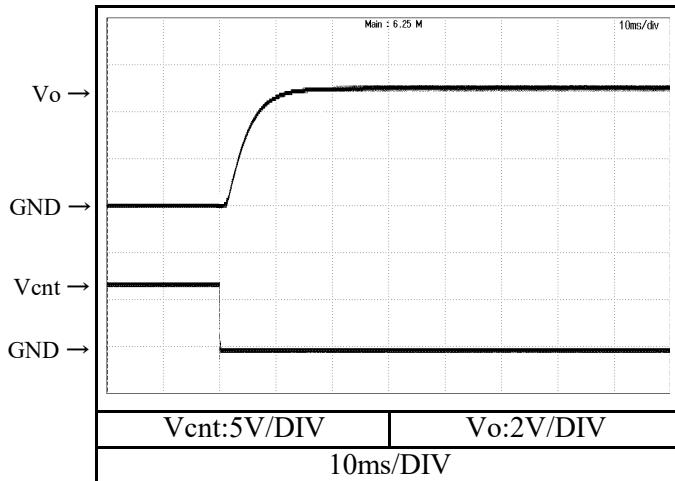
2.6 出力立ち上がり、立ち下がり特性 (ON/OFFコントロール時)

Output rise and fall characteristics with ON/OFF CONTROL

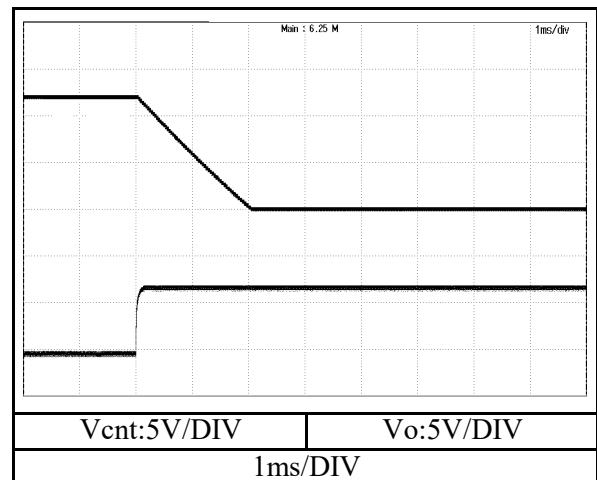
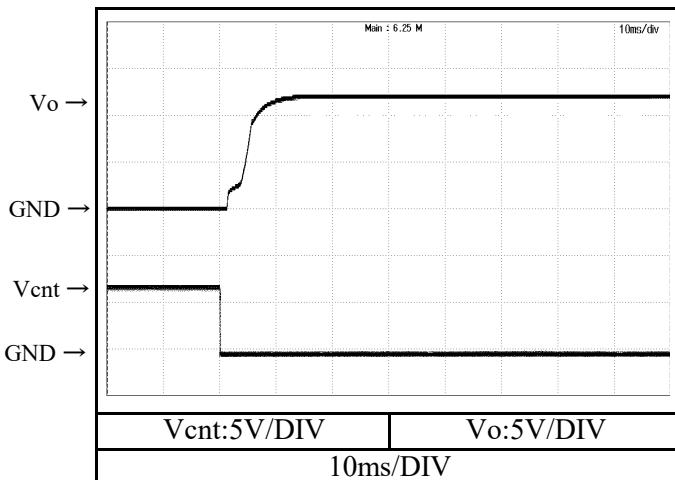
Conditions

Vin : 110 VDC
Io : 100 %
Tbp : 25°C

5V



12V



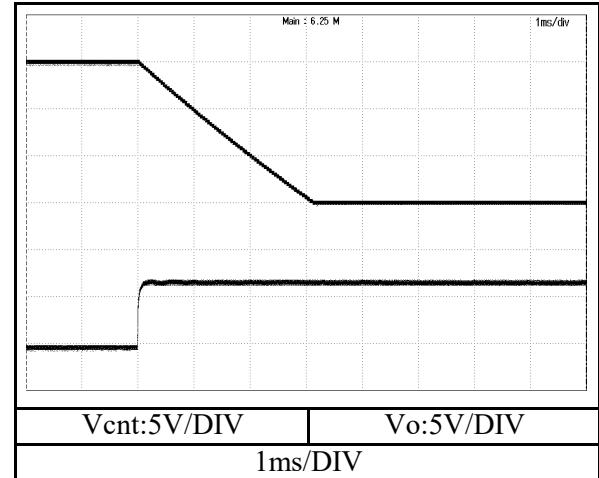
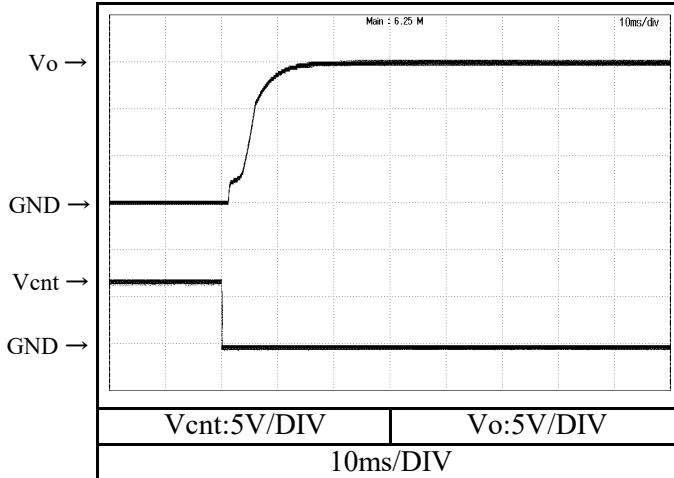
2.6 出力立ち上がり、立ち下がり特性 (ON/OFFコントロール時)

Output rise and fall characteristics with ON/OFF CONTROL

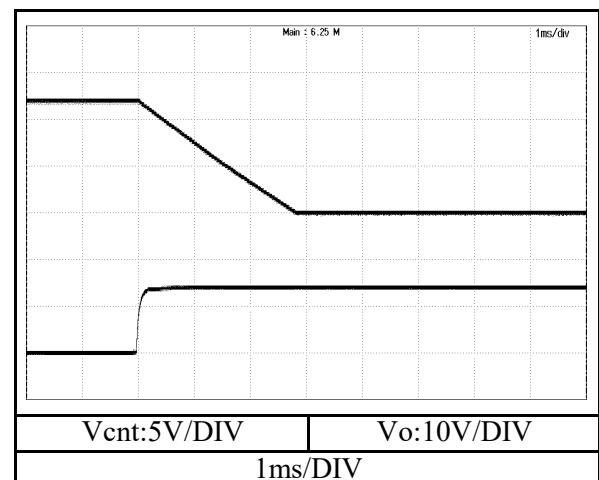
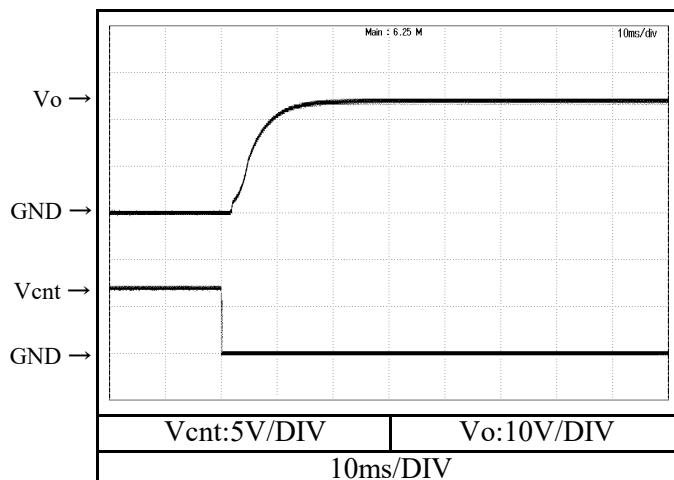
Conditions

Vin : 110 VDC
Io : 100 %
Tbp : 25°C

15V



24V



2.6 出力立ち上がり、立ち下がり特性 (ON/OFFコントロール時)

Output rise and fall characteristics with ON/OFF CONTROL

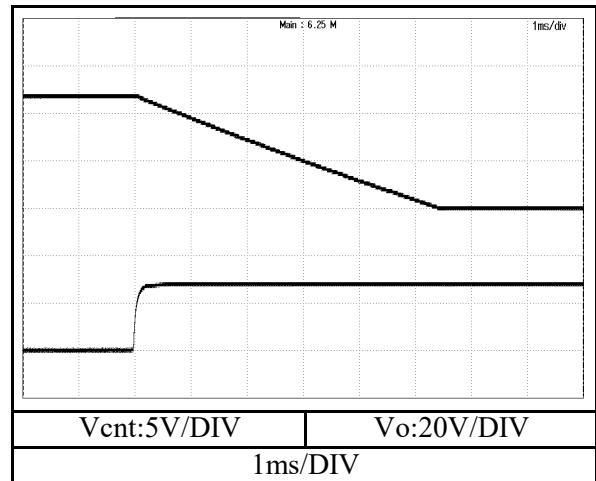
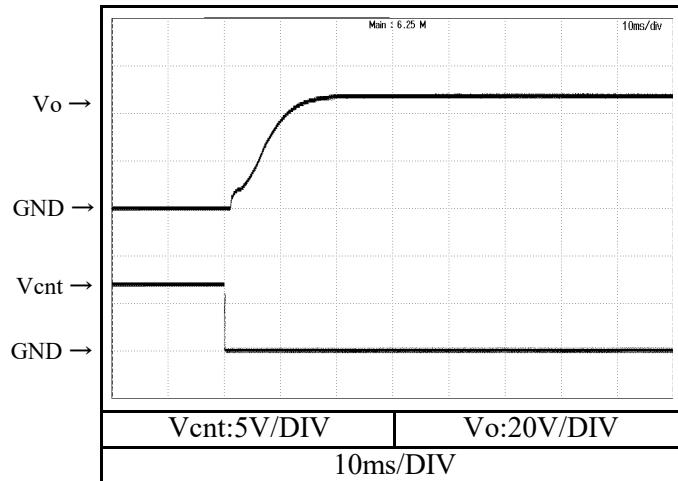
Conditions

Vin : 110 VDC

Io : 100 %

Tbp : 25°C

48V



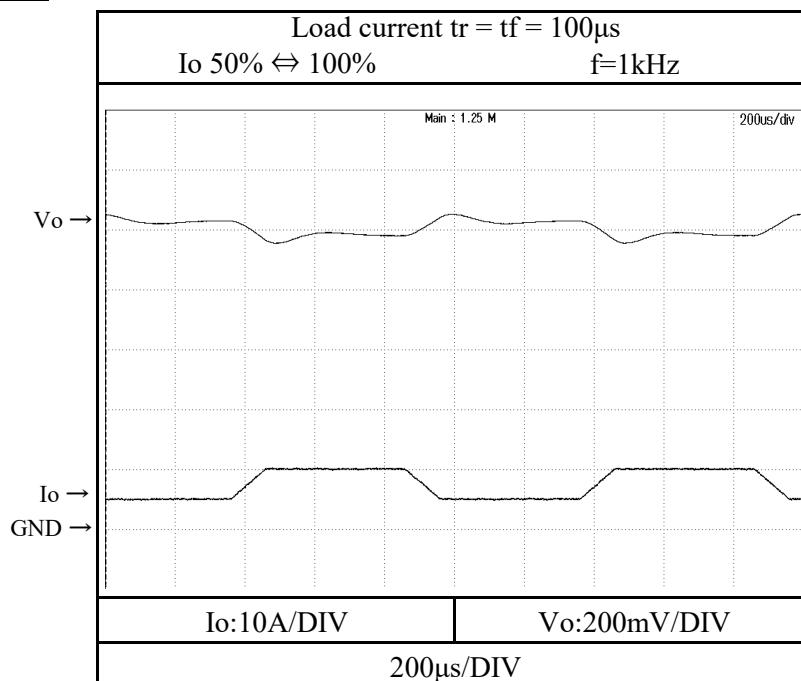
2.7 過渡応答（負荷急変）特性

Dynamic load response characteristics

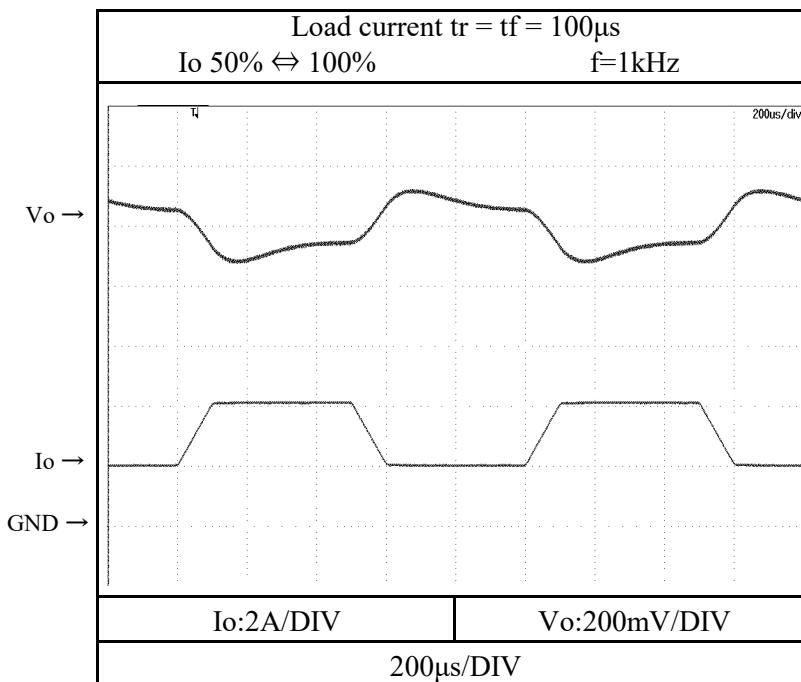
Conditions

Vin : 110VDC
Tbp : 25°C

5V



12V



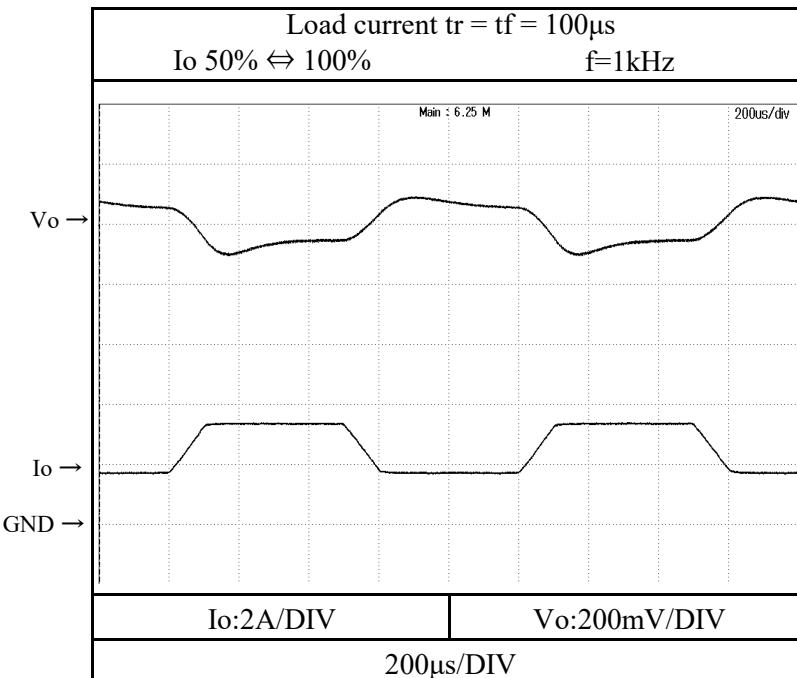
2.7 過渡応答（負荷急変）特性

Dynamic load response characteristics

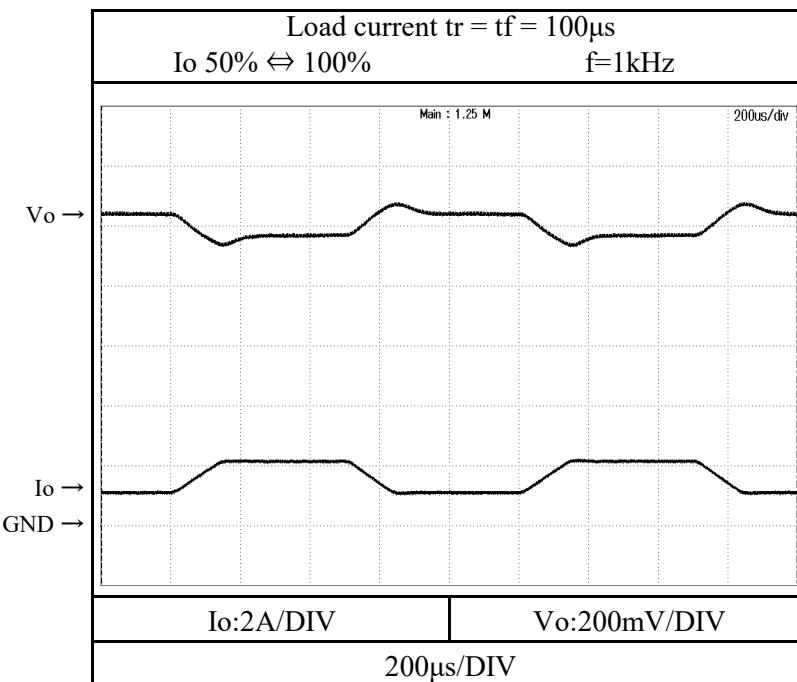
Conditions

Vin : 110VDC
Tbp : 25°C

15V



24V



2.7 過渡応答（負荷急変）特性

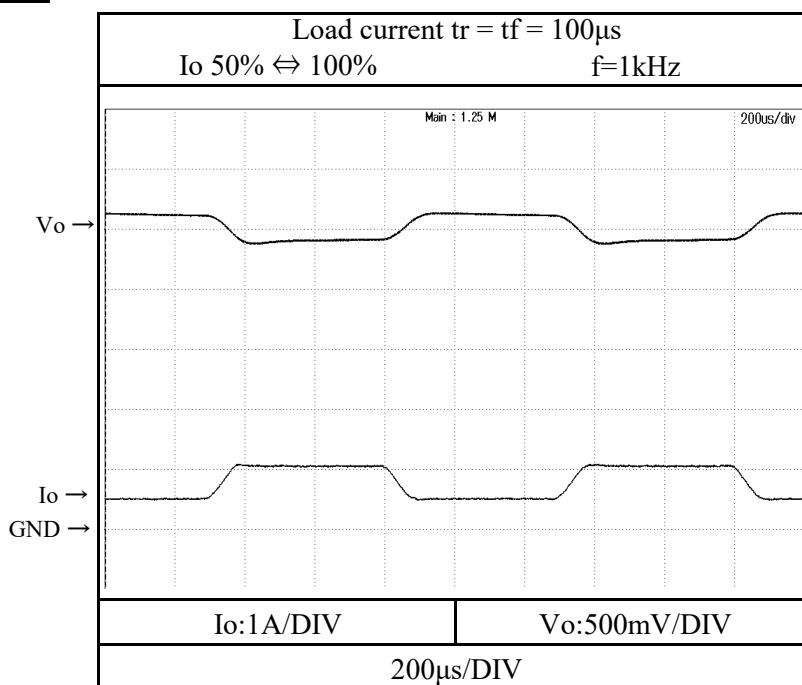
Dynamic load response characteristics

Conditions

Vin : 110VDC

Tbp : 25°C

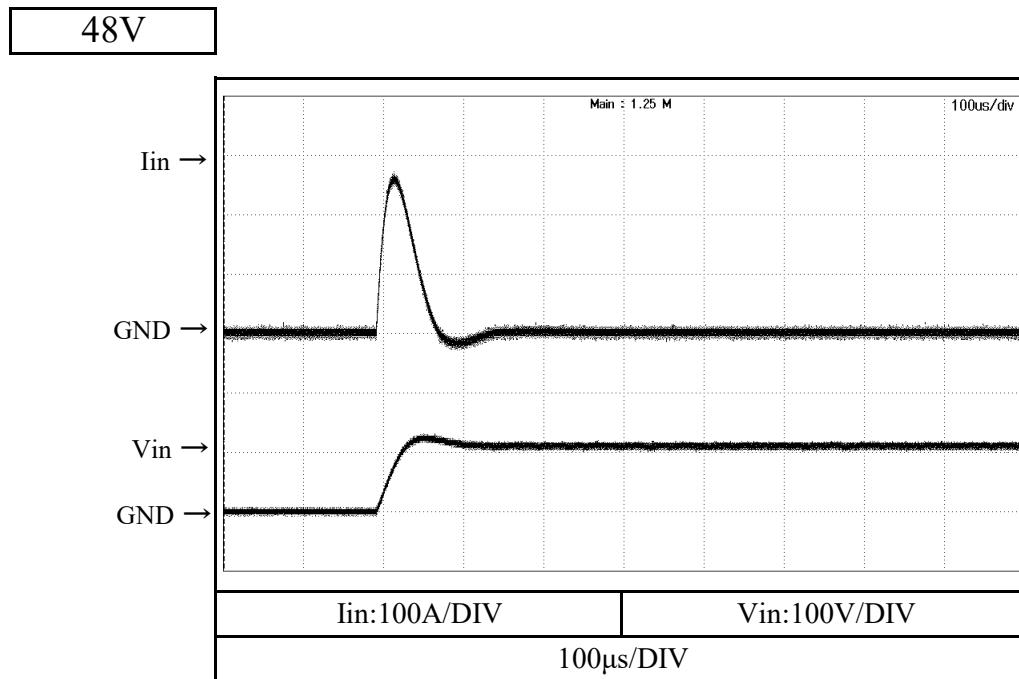
48V



2.8 入力サージ電流(突入電流)特性

Inrush current characteristics

Conditions
Vin : 110 VDC
Io : 100%
Tbp : 25°C



2.9 出力リップル・ノイズ波形

Output ripple and noise waveform

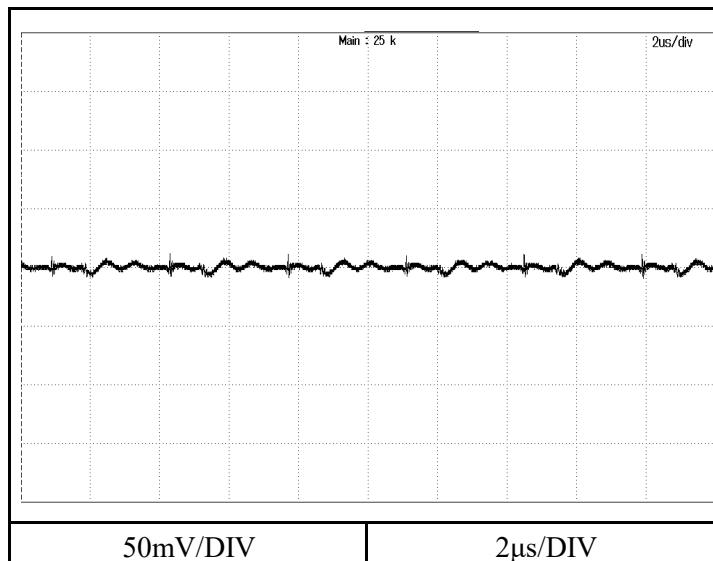
Conditions

Vin : 110VDC

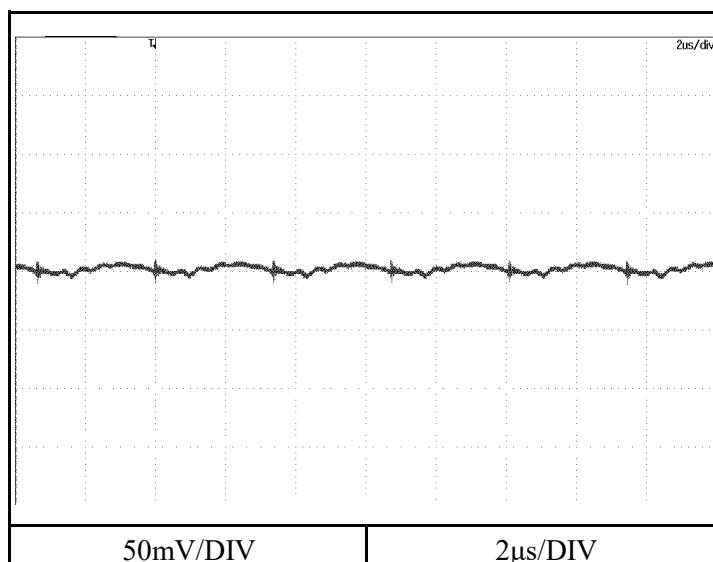
Io : 100%

Tbp : 25°C

5V



12V



2.9 出力リップル・ノイズ波形

Output ripple and noise waveform

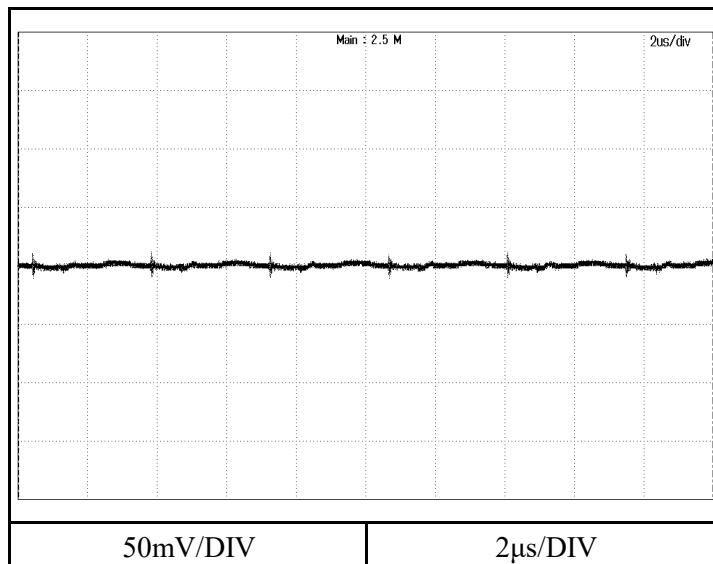
Conditions

Vin : 110VDC

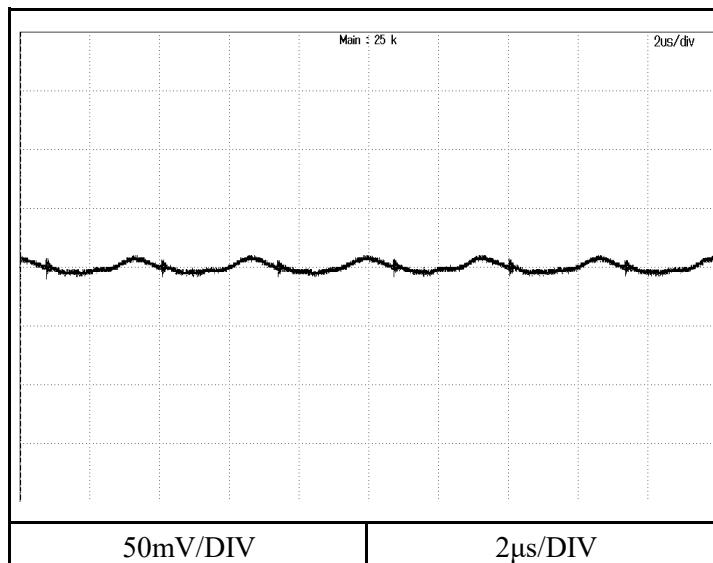
Io : 100%

Tbp : 25°C

15V



24V



2.9 出力リップル・ノイズ波形

Output ripple and noise waveform

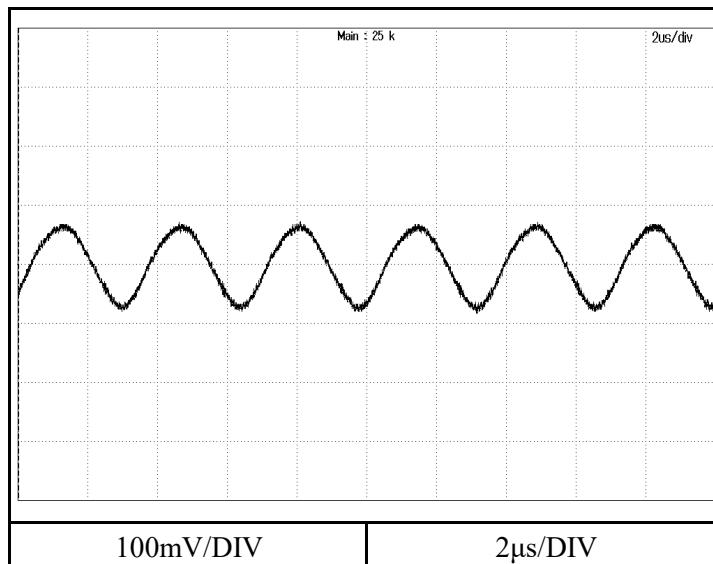
Conditions

Vin : 110VDC

Io : 100%

Tbp : 25°C

48V



2.10 EMI特性

Electro-Magnetic Interference characteristics

(a) 雑音端子電圧(帰還ノイズ)

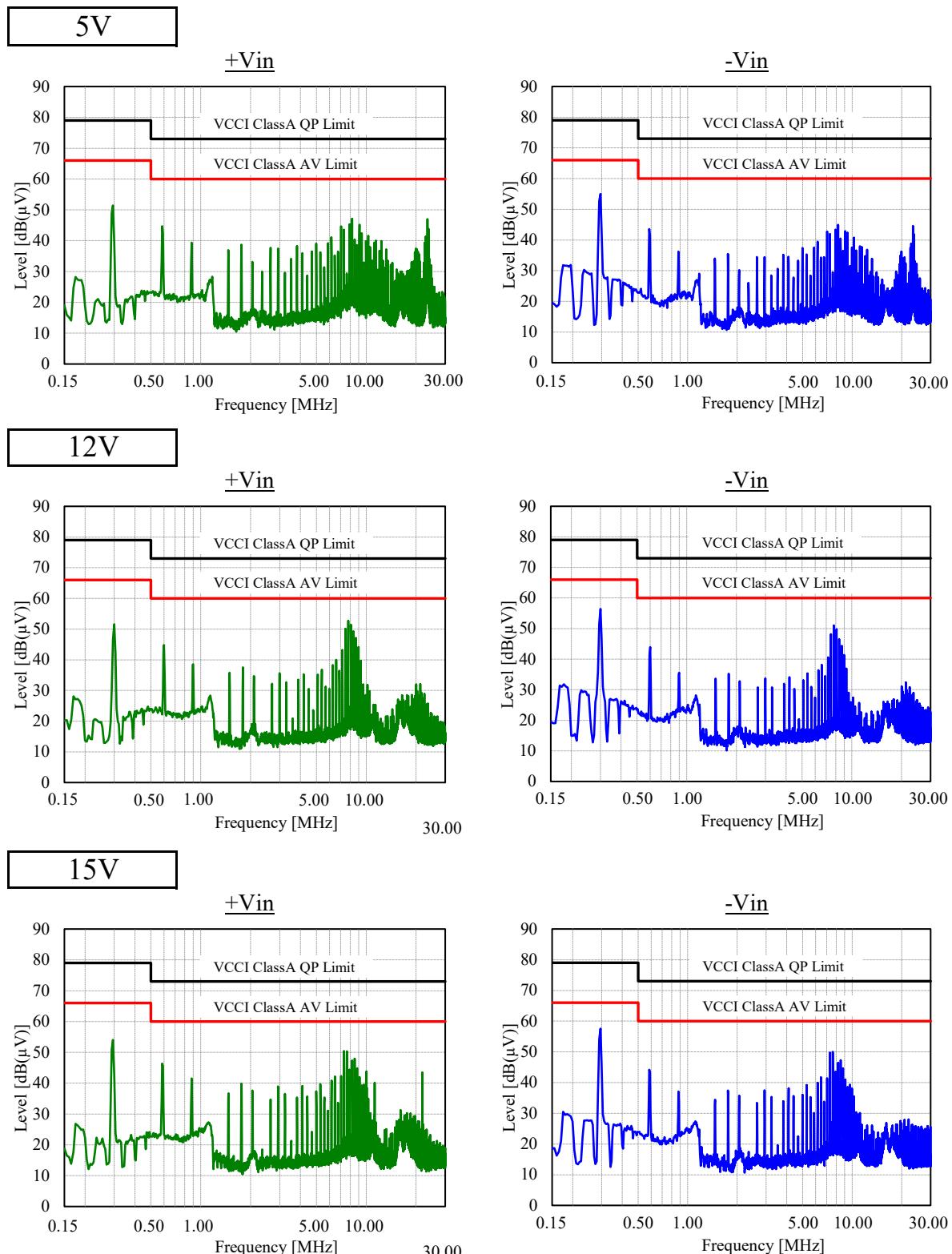
Conducted Emission Noise

Conditions

Vin : 110VDC

Io : 100%

Tbp : 25°C



2.10 EMI特性

Electro-Magnetic Interference characteristics

(a) 雑音端子電圧(帰還ノイズ)

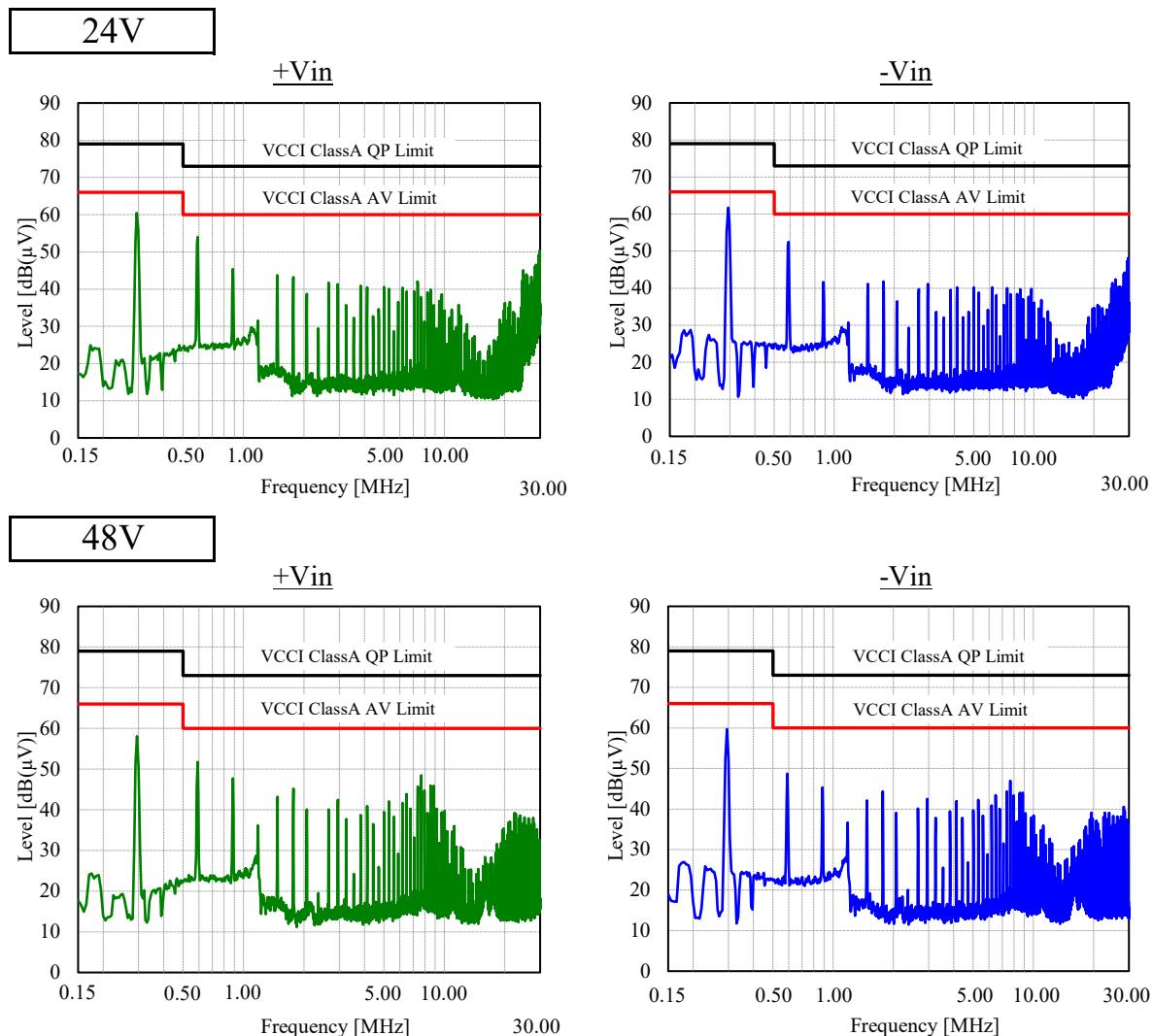
Conducted Emission Noise

Conditions

Vin : 110VDC

Io : 100%

Tbp : 25°C



2.10 EMI特性

Electro-Magnetic Interference characteristics

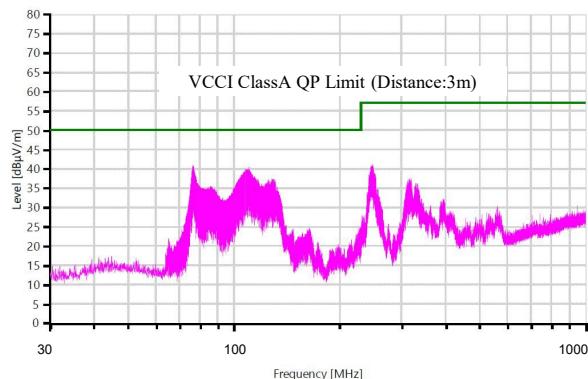
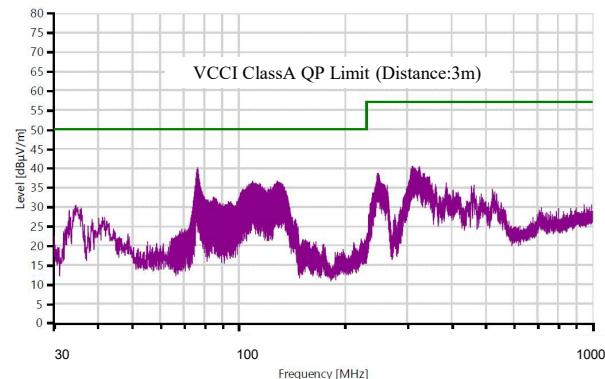
(b) 雜音電界強度(輻射ノイズ)

Radiated Emission Noise

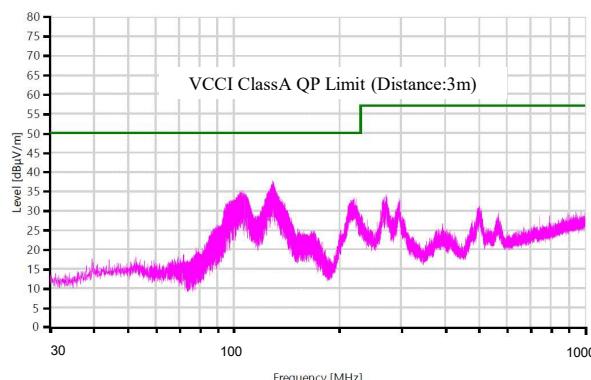
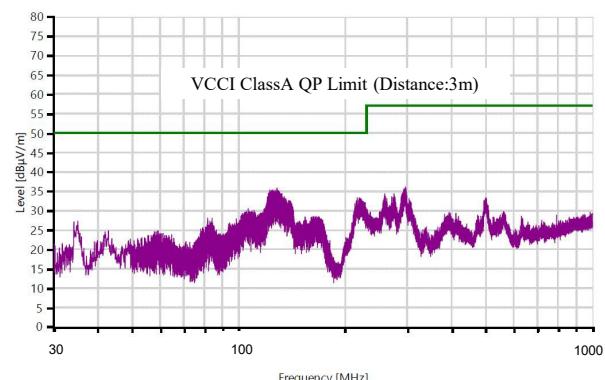
Conditions

Vin : 110VDC
Io : 100%
Tbp : 25°C

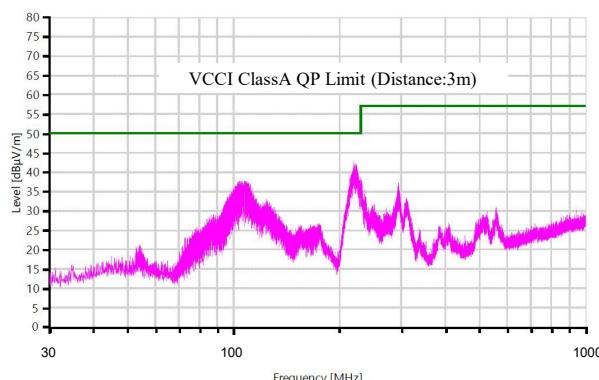
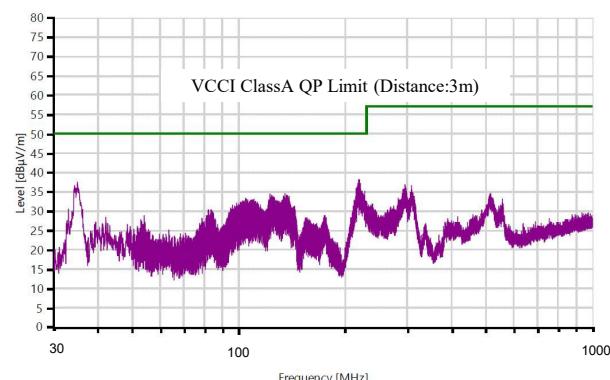
5V

HORIZONTALVERTICAL

12V

HORIZONTALVERTICAL

15V

HORIZONTALVERTICAL

2.10 EMI特性

Electro-Magnetic Interference characteristics

(b) 雜音電界強度(輻射ノイズ)

Radiated Emission Noise

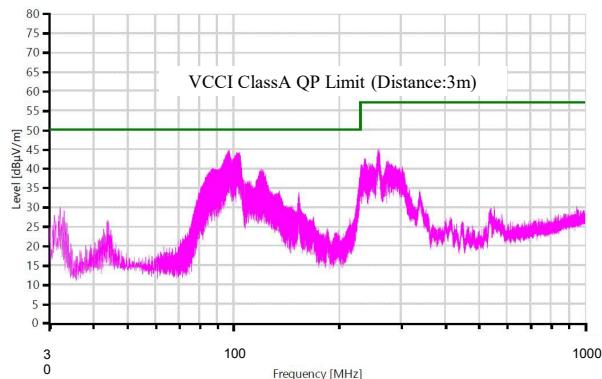
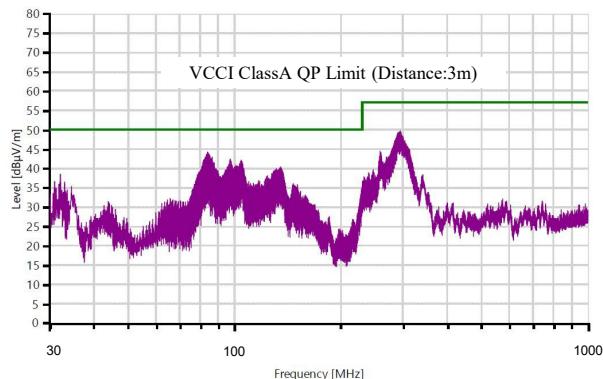
Conditions

Vin : 110VDC

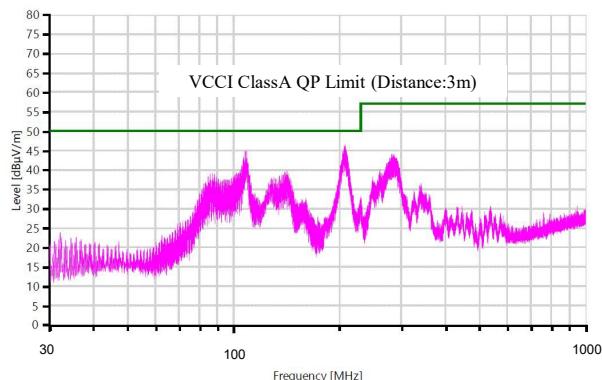
Io : 100%

Tbp : 25°C

24V

HORIZONTALVERTICAL

48V

HORIZONTALVERTICAL