

PAF600F280-*

EVALUATION DATA

型式データ

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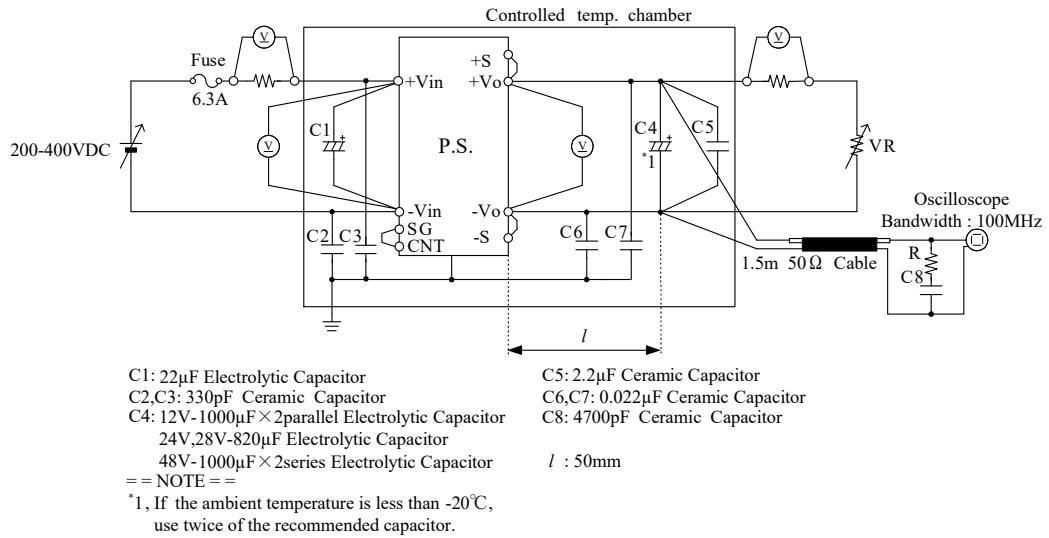
使用記号 Terminology used

	Definition		
V_{in}	入力電圧	Input Voltage
V_{out}	出力電圧	Output Voltage
V_{cnt}	CNT電圧	CNT Voltage
I_{in}	入力電流	Input Current
I_{out}	出力電流	Output Current
T_{bp}	ベースプレート温度	Baseplate Temperature
T_a	周囲温度	Ambient Temperature

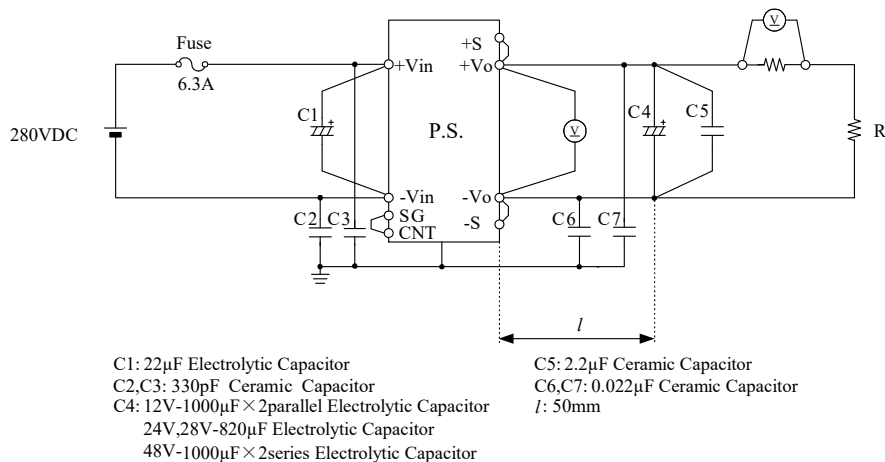
1. 測定方法 Evaluation Method

1.1 測定回路 Circuits used for determination

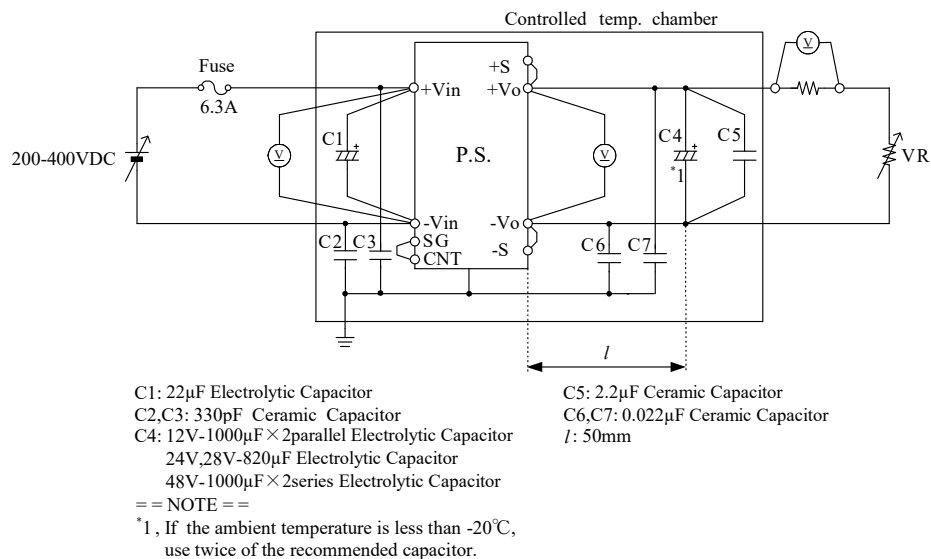
(1) 静特性 Steady state data



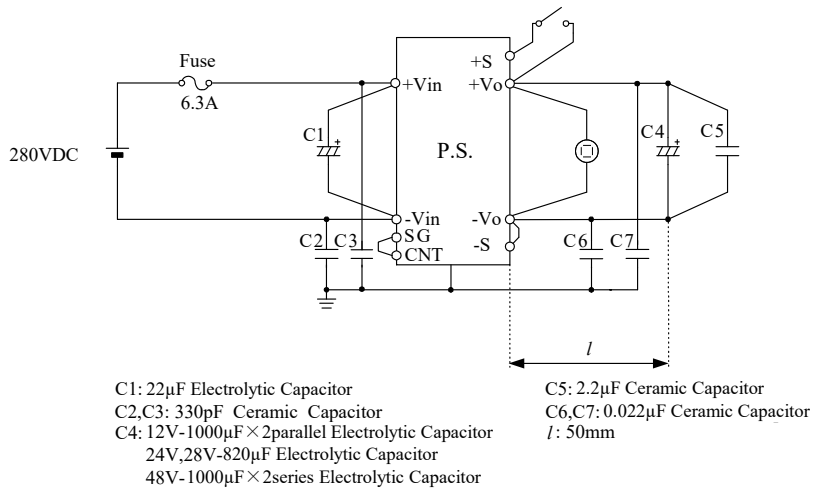
(2) 通電ドリフト特性 Warm up voltage drift characteristics



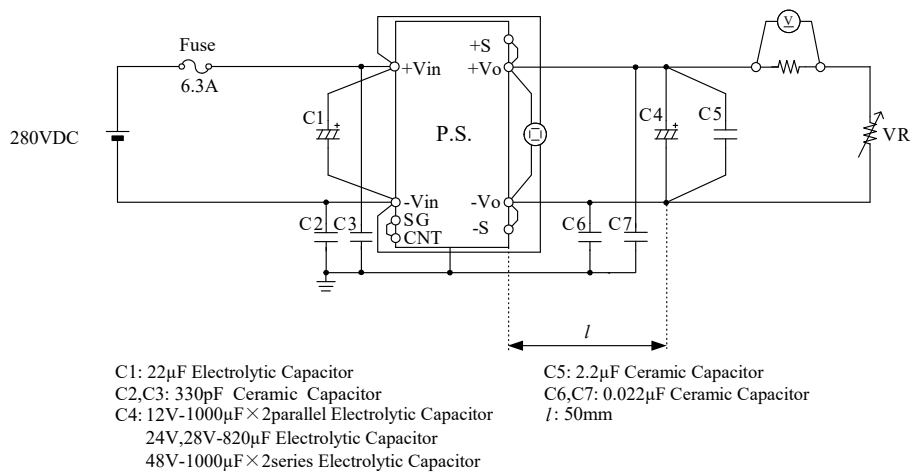
(3) 過電流保護特性 Over current protection (OCP) characteristics



(4) 過電圧保護特性 Over voltage protection (OVP) characteristics



(5) 出力立ち上がり特性 Output rise characteristics



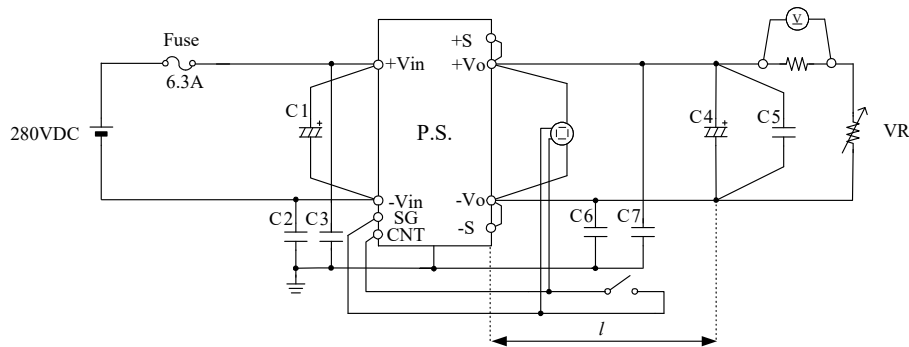
(6) 出力立ち下がり特性 Output fall characteristics

出力立ち上がり特性と同じ

Same as output rise characteristics

(7) 出力立ち上がり特性 (ON/OFF コントロール時)

Output rise characteristics with ON/OFF CONTROL



- C1: 22 μ F Electrolytic Capacitor
- C2,C3: 330pF Ceramic Capacitor
- C4: 12V-1000 μ F \times 2parallel Electrolytic Capacitor
24V,28V-820 μ F Electrolytic Capacitor
48V-1000 μ F \times 2series Electrolytic Capacitor
- C5: 2.2 μ F Ceramic Capacitor
- C6,C7: 0.022 μ F Ceramic Capacitor
- l: 50mm

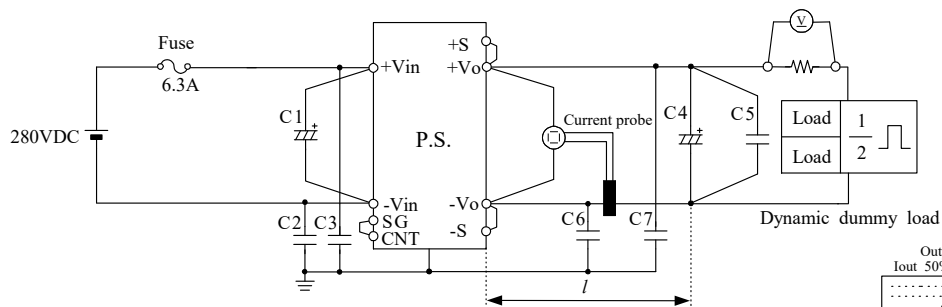
(8) 出力立ち下がり特性 (ON/OFF コントロール時)

Output fall characteristics with ON/OFF CONTROL

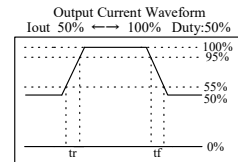
出力立ち上がり特性 (ON/OFF コントロール時)と同じ

Same as output rise characteristics with ON/OFF CONTROL

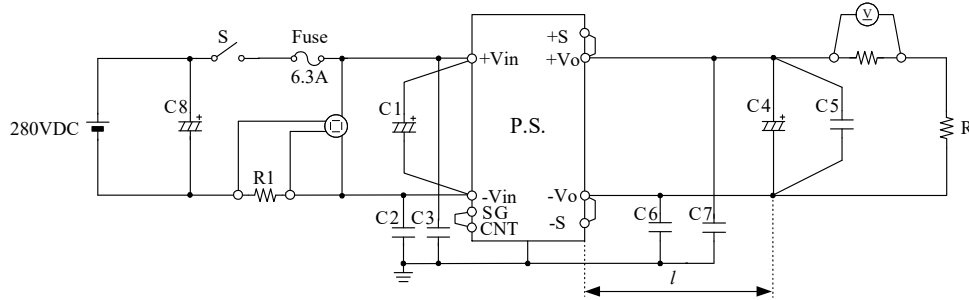
(9) 過渡応答(負荷急変)特性 Dynamic load response characteristics



- C1: 22 μ F Electrolytic Capacitor
- C2,C3: 330pF Ceramic Capacitor
- C4: 12V-1000 μ F \times 2parallel Electrolytic Capacitor
24V,28V-820 μ F Electrolytic Capacitor
48V-1000 μ F \times 2series Electrolytic Capacitor
- C5: 2.2 μ F Ceramic Capacitor
- C6,C7: 0.022 μ F Ceramic Capacitor
- l: 50mm



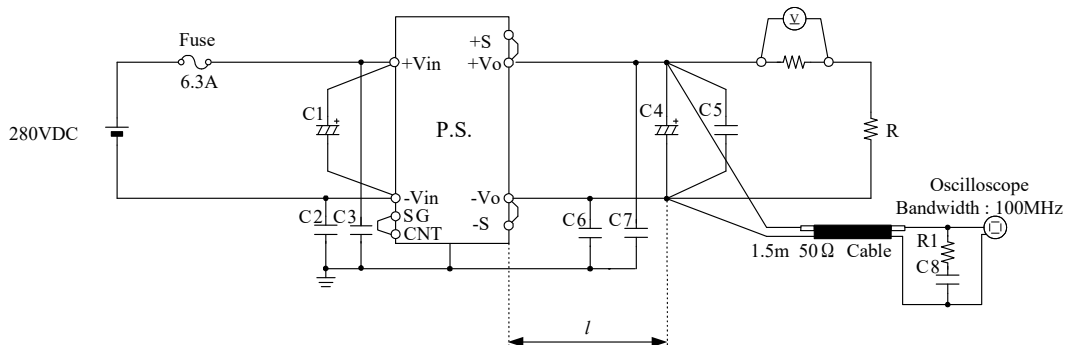
(10) 入力サージ電流(突入電流)特性 Inrush current characteristics



- | | |
|--|--|
| C1: 22 μ F Electrolytic Capacitor | C6,C7: 0.022 μ F Ceramic Capacitor |
| C2,C3: 330pF Ceramic Capacitor | C8: 450 μ F Electrolytic Capacitor |
| C4: 48V-1000 μ F \times 2series Electrolytic Capacitor | R1: 0.01 Ω |
| C5: 2.2 μ F Ceramic Capacitor | l: 50mm |

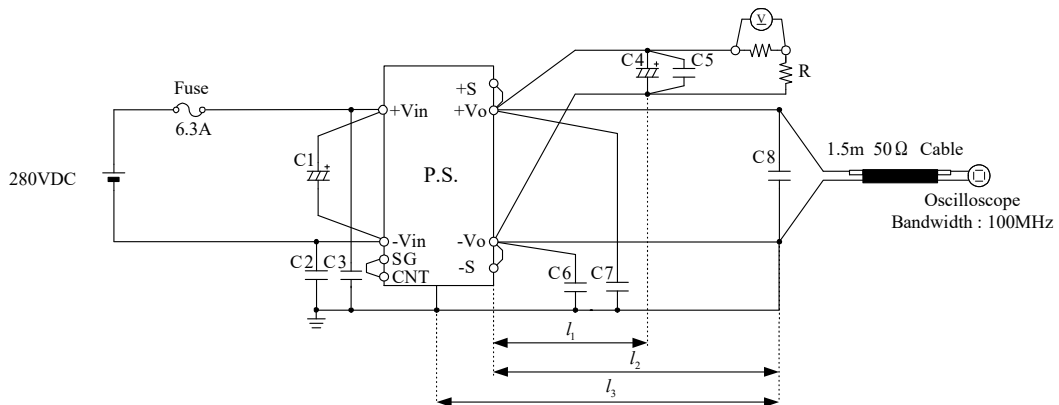
(11) 出力リップル、ノイズ波形 Output ripple and noise waveform

(a) Normal Mode



- | | |
|--|--|
| C1: 22 μ F Electrolytic Capacitor | C5: 2.2 μ F Ceramic Capacitor |
| C2,C3: 330pF Ceramic Capacitor | C6,C7: 0.022 μ F Ceramic Capacitor |
| C4: 12V-1000 μ F \times 2parallel Electrolytic Capacitor | C8: 4700pF Ceramic Capacitor |
| 24V,28V-820 μ F Electrolytic Capacitor | R1: 50 Ω |
| 48V-1000 μ F \times 2series Electrolytic Capacitor | l : 50mm |

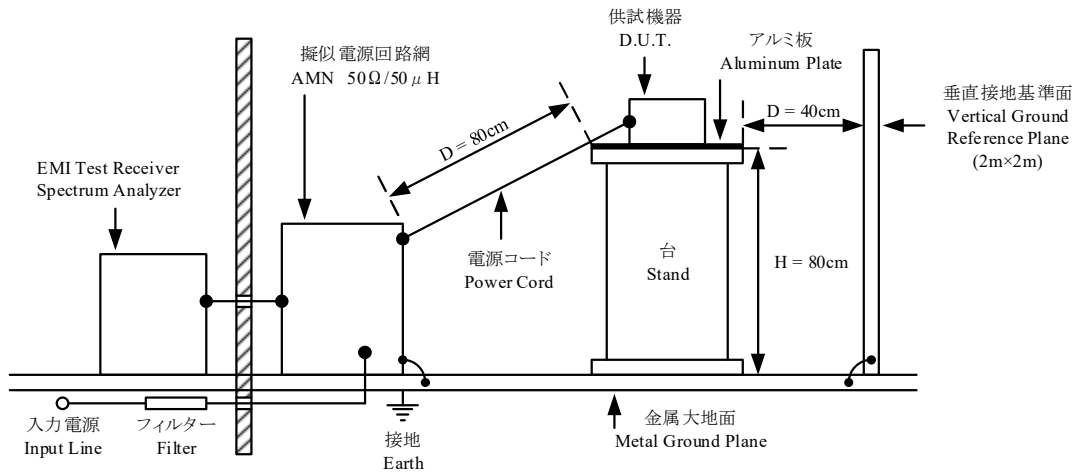
(b) Normal + Common Mode



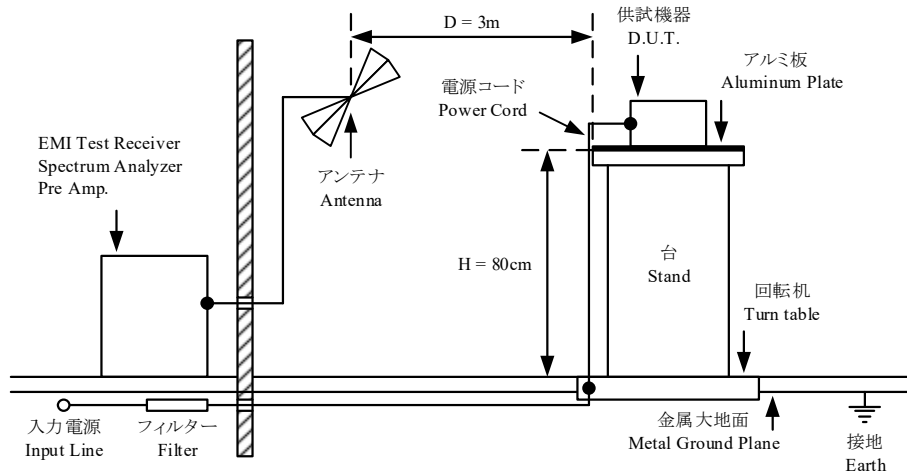
- | | |
|--|--|
| C1: 22 μ F Electrolytic Capacitor | C5: 2.2 μ F Ceramic Capacitor |
| C2,C3: 330pF Ceramic Capacitor | C6,C7: 0.022 μ F Ceramic Capacitor |
| C4: 12V-1000 μ F \times 2parallel Electrolytic Capacitor | C8: 0.1 μ F Ceramic Capacitor |
| 24V,28V-820 μ F Electrolytic Capacitor | l ₁ : 50mm |
| 48V-1000 μ F \times 2series Electrolytic Capacitor | l ₂ : 150mm |
| | l ₃ : 150mm |

(12) EMI 特性 Electro-Magnetic Interference characteristics

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

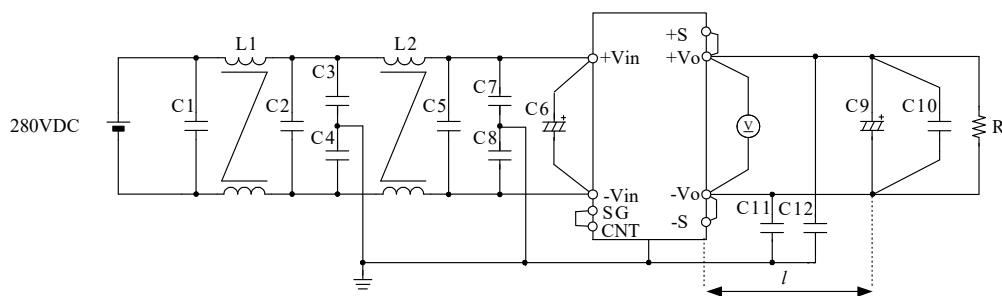


(b) 雑音電界強度(輻射ノイズ) Radiated Emission Noise



(1) VCCI class A 対応アプリケーションシステム

VCCI class A application system



C1,C2,C5: 0.68μF Film Capacitor
 C3,C4,C7,C8: 2200pF Ceramic Capacitor
 C6:22μF Electrolytic Capacitor
 C9:12V-1000μF×2parallel Electrolytic Capacitor
 24V,28V-820μF Electrolytic Capacitor
 48V-1000μF×2series Electrolytic Capacitor

C10: 2.2μF Ceramic Capacitor
 C11,C12: 0.022μF Ceramic Capacitor
 L1: 5mH
 L2: 3.8mH
 I: 50mm

1.2 使用測定機器 List of equipment used

	EQUIPMENT USED	MANUFACTURER	MODEL NO.
1	DIGITAL STORAGE OSCILLOSCOPE	YOKOGAWA ELECT.	DLM3054
2	DATA ACQUISITION / SWITCH UNIT	AGILENT	34970A
3	DIGITAL POWER METER	YOKOGAWA ELECT.	WT210
4	CURRENT PROBE	YOKOGAWA ELECT.	701929
5	CURRENT PROBE	YOKOGAWA ELECT.	701930
6	AC POWER SUPPLY	KIKUSUI	PCR2000MA
7	CVCF	NF	ES10000S
8	DYNAMIC DUMMY LOAD	KIKUSUI	PLZ1205W
9	CONTROLLED TEMP. CHAMBER	ESPEC	SU-662
10	SHUNT RESISTER	YOKOGAWA ELECT.	2215
11	EMI TEST RECEIVER SPECTRUM ANALYZER	ROHDE & SCHWARZ	ESR3
12	PRE AMP.	SONOMA	310N
13	ANTENNA	TESEQ	CBL 6111D
14	AMN	SCHWARZBECK	NNLK8121

2. 特性データ Characteristics

2.1 静特性 Steady state data

(1) 入力・負荷・温度変動

Regulation - line and load, temperature drift

12V

1. Regulation - line and load

Condition Tbp : 25°C

Iout \ Vin	200VDC	280VDC	400VDC	line regulation	
0%	12.006V	12.006V	12.006V	0mV	0.000%
50%	12.006V	12.007V	12.007V	1mV	0.008%
100%	12.007V	12.007V	12.007V	0mV	0.000%
load regulation	1mV	1mV	1mV		
	0.008%	0.008%	0.008%		

2. Temperature drift

Conditions Vin : 280VDC

Iout : 80%

Tbp	-40°C	25°C	100°C	temperature drift	
Vout	11.950V	12.007V	12.017V	67mV	0.558%

24V

1. Regulation - line and load

Condition Tbp : 25°C

Iout \ Vin	200VDC	280VDC	400VDC	line regulation	
0%	24.036V	24.036V	24.036V	0mV	0.000%
50%	24.039V	24.039V	24.038V	1mV	0.004%
100%	24.040V	24.040V	24.040V	0mV	0.000%
load regulation	4mV	4mV	4mV		
	0.017%	0.017%	0.017%		

2. Temperature drift

Conditions Vin : 280VDC

Iout : 80%

Tbp	-40°C	25°C	100°C	temperature drift	
Vout	23.881V	24.039V	24.070V	189mV	0.788%

(1) 入力・負荷・温度変動

Regulation - line and load, temperature drift

28V

1. Regulation - line and load

Condition Tbp : 25°C

Iout \ Vin	200VDC	280VDC	400VDC	line regulation	
0%	27.995V	28.005V	28.005V	10mV	0.036%
50%	28.001V	28.010V	28.007V	9mV	0.032%
100%	28.006V	28.014V	28.009V	8mV	0.029%
load regulation	11mV	9mV	4mV		
	0.039%	0.032%	0.014%		

2. Temperature drift

Conditions Vin : 280VDC

Iout : 80%

Tbp	-40°C	25°C	100°C	temperature drift	
Vout	27.827V	28.012V	28.056V	229mV	0.818%

48V

1. Regulation - line and load

Condition Tbp : 25°C

Iout \ Vin	200VDC	280VDC	400VDC	line regulation	
0%	48.018V	48.026V	48.027V	9mV	0.019%
50%	48.024V	48.032V	48.034V	10mV	0.021%
100%	48.027V	48.034V	48.038V	11mV	0.023%
load regulation	9mV	8mV	11mV		
	0.019%	0.017%	0.023%		

2. Temperature drift

Conditions Vin : 280VDC

Iout : 80%

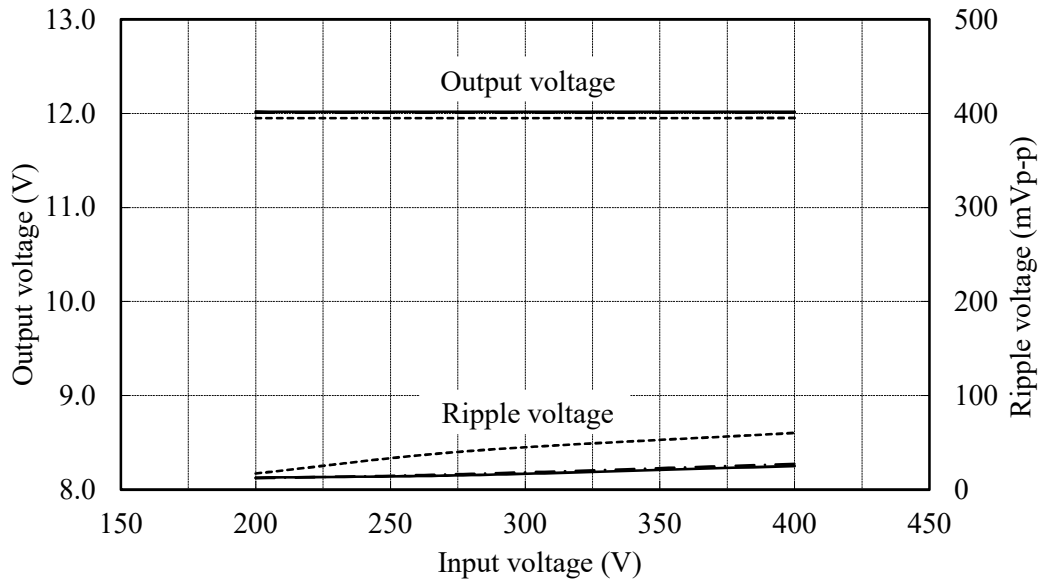
Tbp	-40°C	25°C	100°C	temperature drift	
Vout	47.764V	48.033V	48.117V	353mV	0.735%

2.1 (2) 出力電圧・リップル電圧対入力電圧

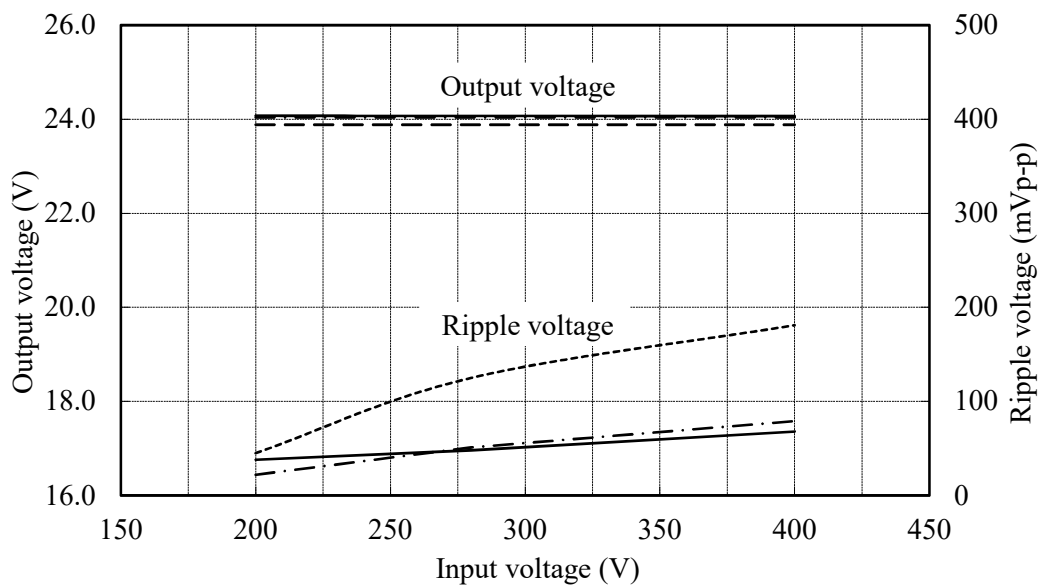
Output voltage and Ripple voltage v.s. Input voltage

Conditions Iout : 100 %
 Tbp : -40 °C -----
 : 25 °C - · - · - ·
 : 100 °C _____

12V



24V

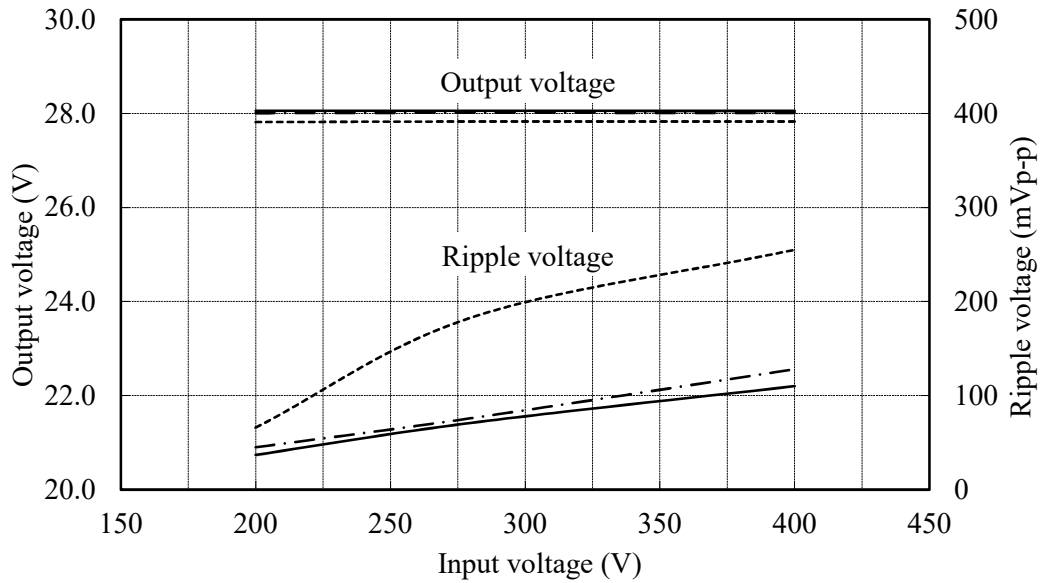


2.1 (2) 出力電圧・リップル電圧対入力電圧

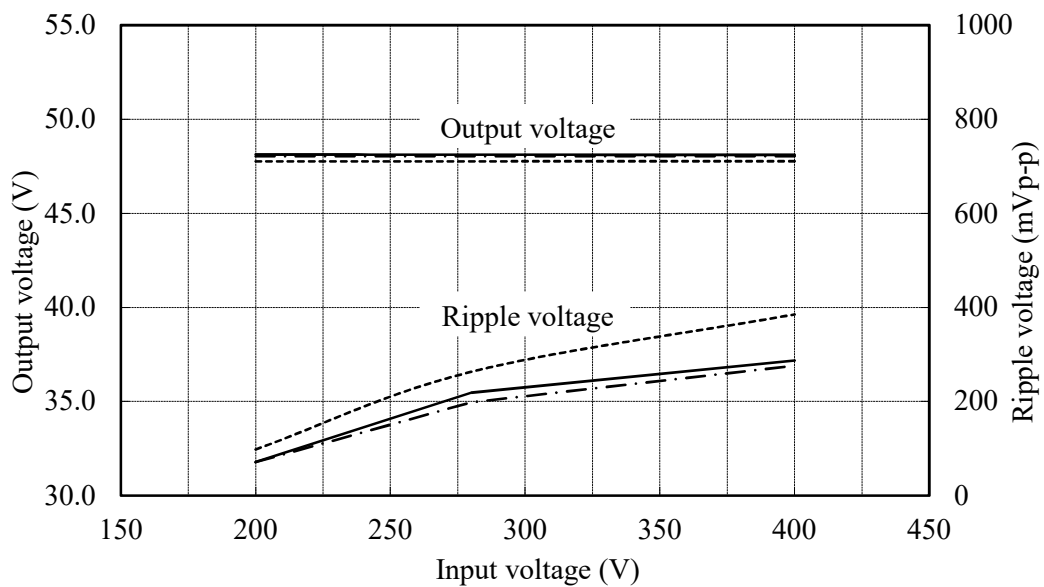
Output voltage and Ripple voltage v.s. Input voltage

Conditions Iout : 100 %
 Tbp : -40 °C -----
 : 25 °C -.-.-.-
 : 100 °C _____

28V



48V

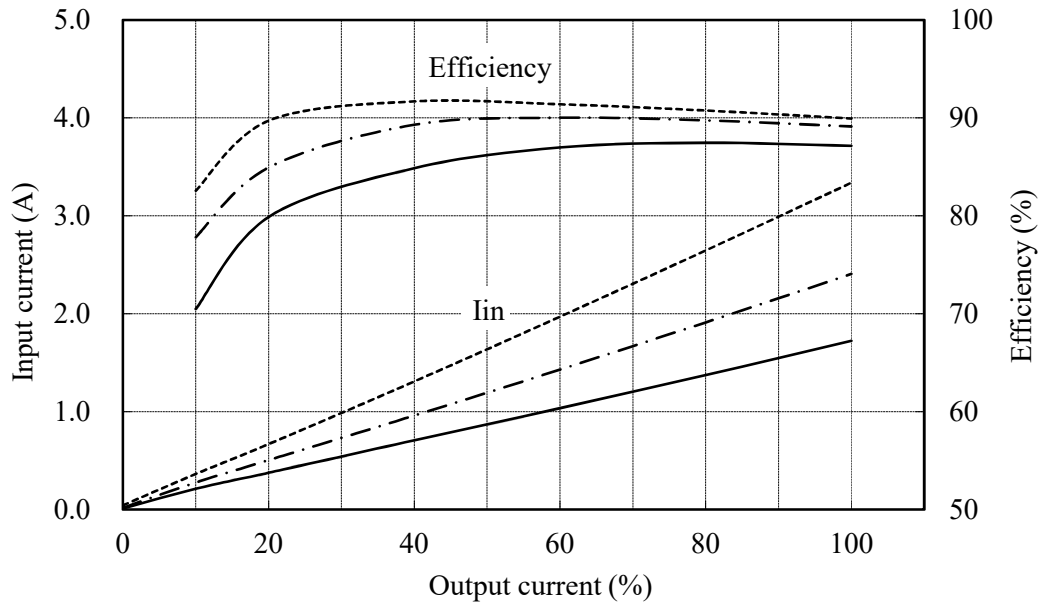


2.1 (3) 効率・入力電流対出力電流

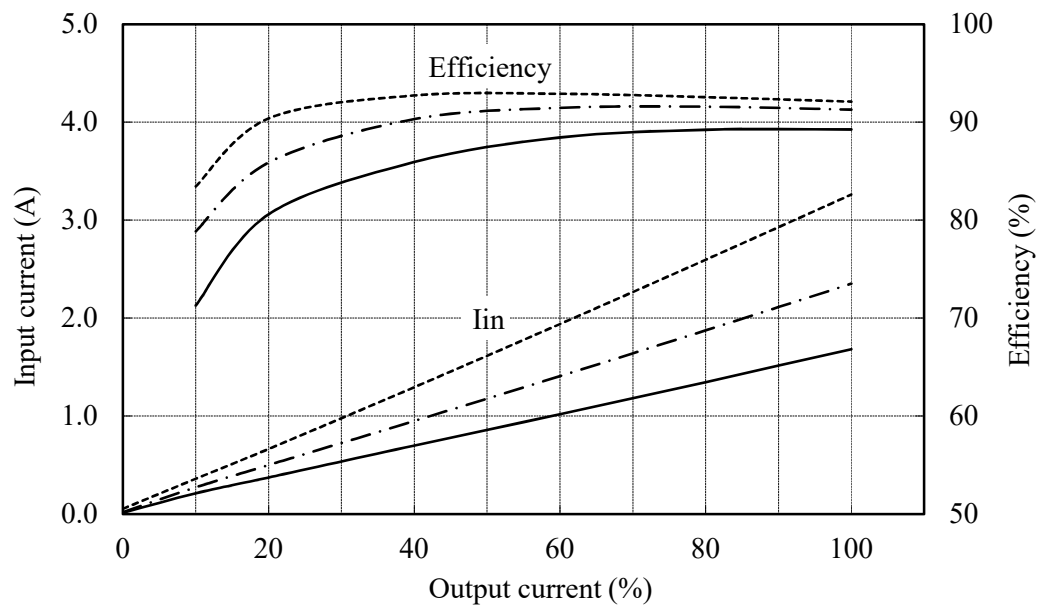
Efficiency and Input current v.s. Output current

Conditions V_{in} : 200 VDC -----
 : 280 VDC -.-.-.-
 : 400 VDC ————
 T_{bp} : 25 °C

12V



24V

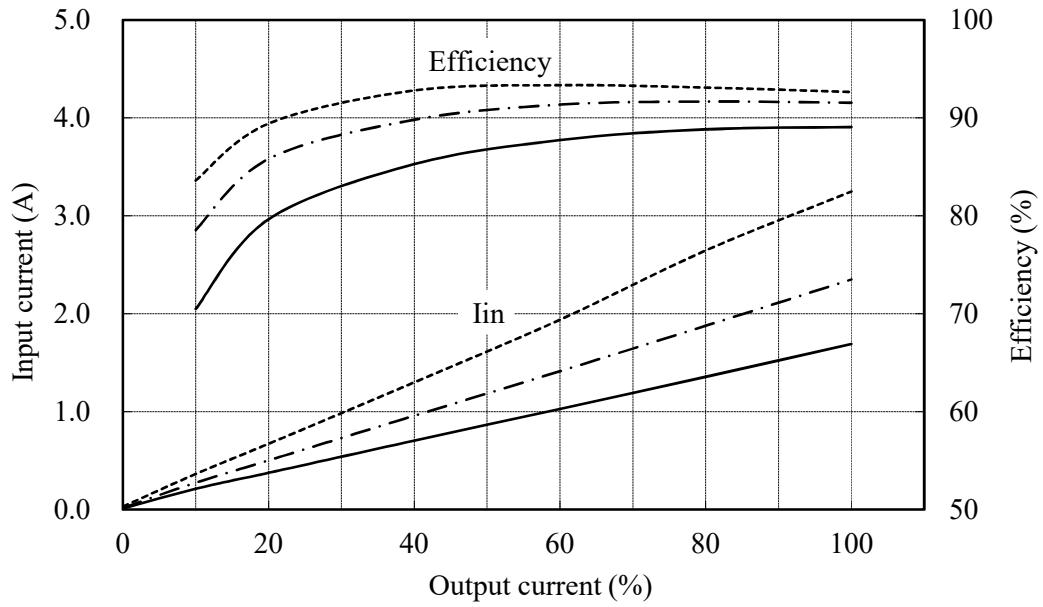


2.1 (3) 効率・入力電流対出力電流

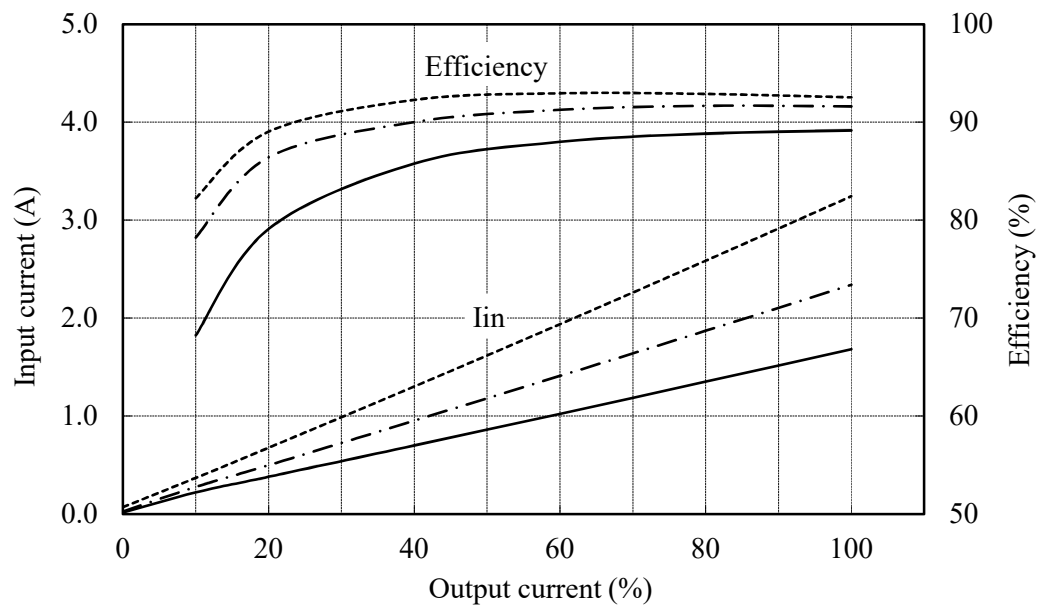
Efficiency and Input current v.s. Output current

Conditions V_{in} : 200 VDC -----
 : 280 VDC -.-.-.-
 : 400 VDC ————
 T_{bp} : 25 °C

28V



48V

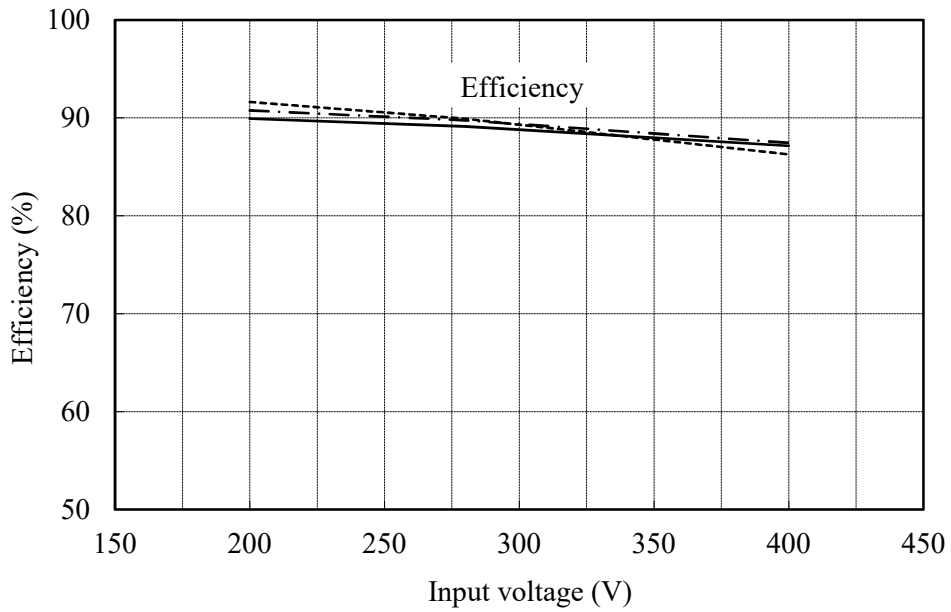


2.1 (4) 効率先入力電圧

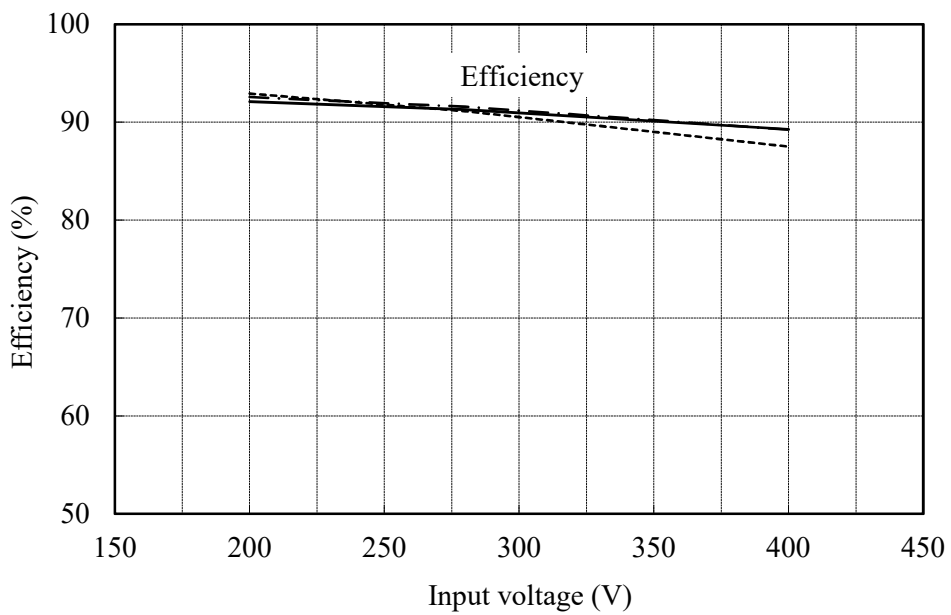
Efficiency v.s. Input voltage

Conditions Iout : 50 % -----
 : 80 % -.-.-.-
 : 100 % _____
Tbp : 25 °C

12V



24V

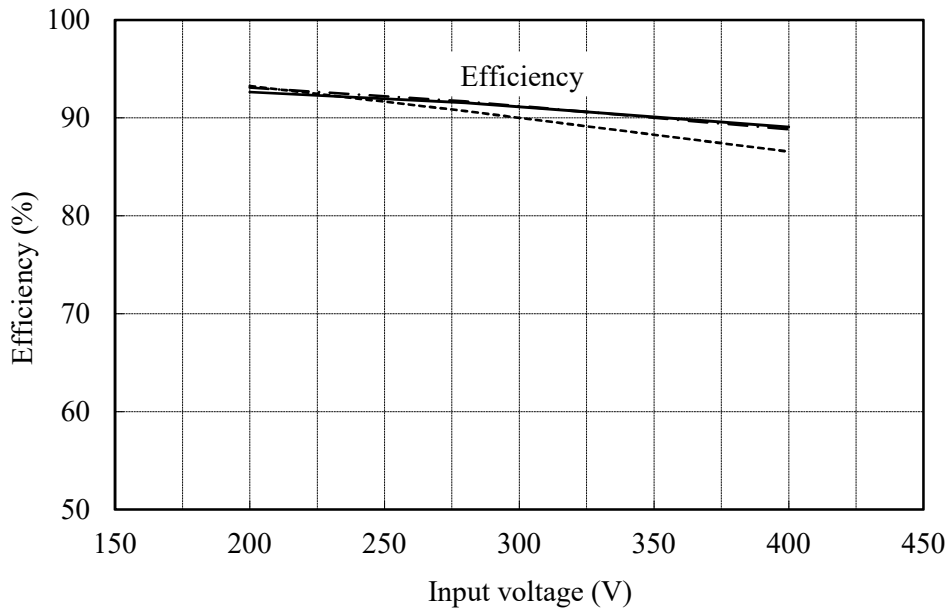


2.1 (4) 効対入力電圧

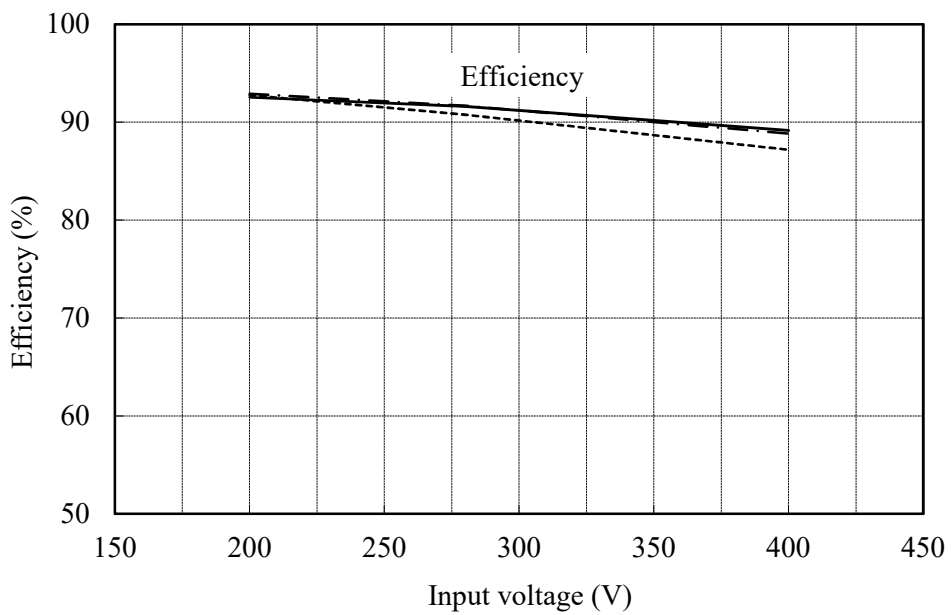
Efficiency v.s. Input voltage

Conditions Iout : 50 % -----
 : 80 % -.-.-.-
 : 100 % _____
Tbp : 25 °C

28V



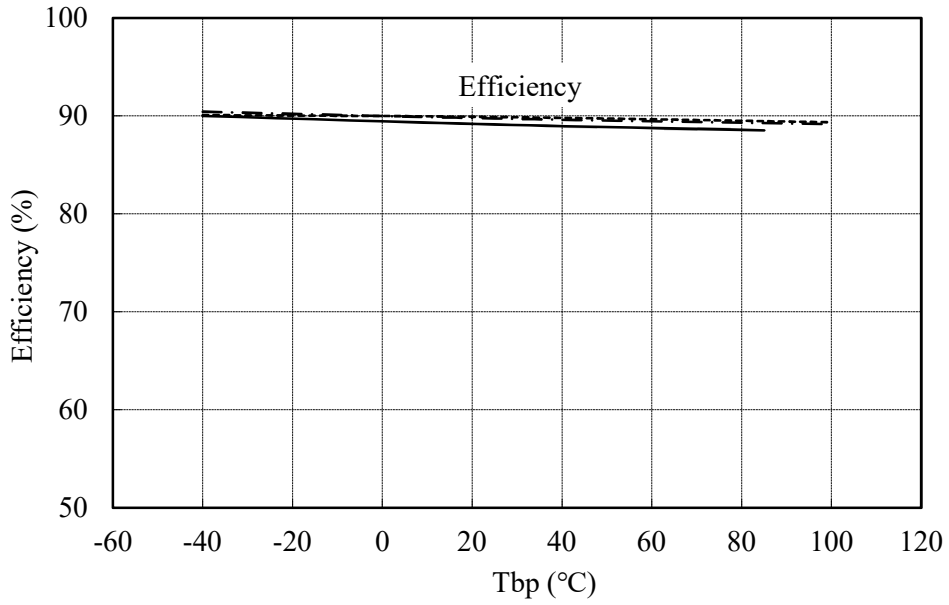
48V



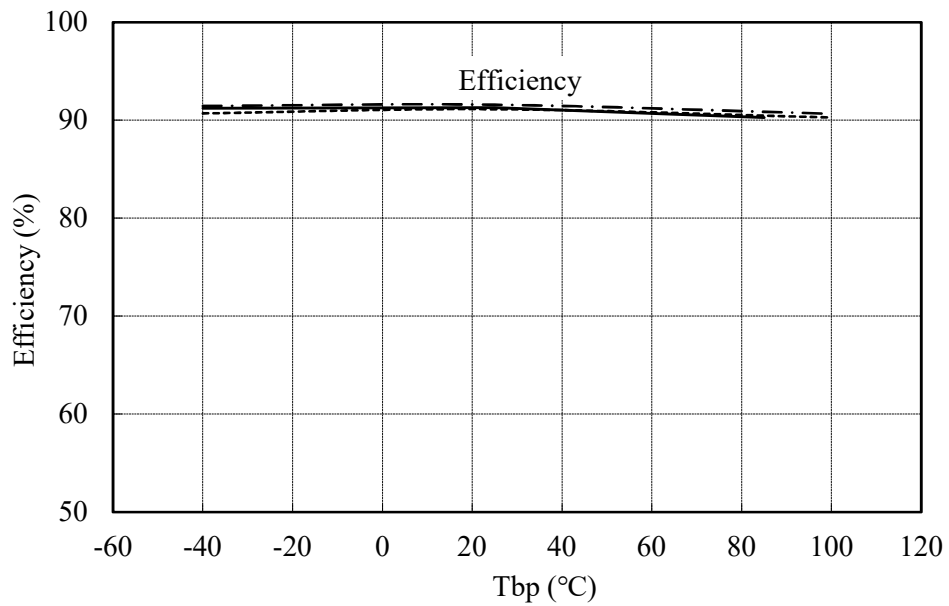
2.1 (5) 効率対ベースプレート温度
Efficiency v.s. Baseplate temperature

Conditions Vin : 280 VDC
Iout : 50 % -----
 : 80 % -.-.-.-.
 : 100 % _____

12V



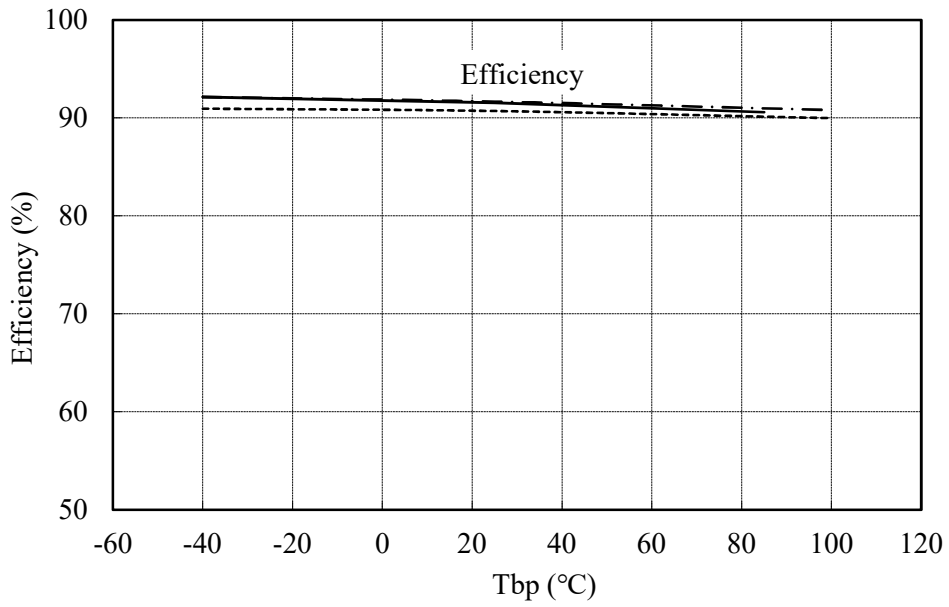
24V



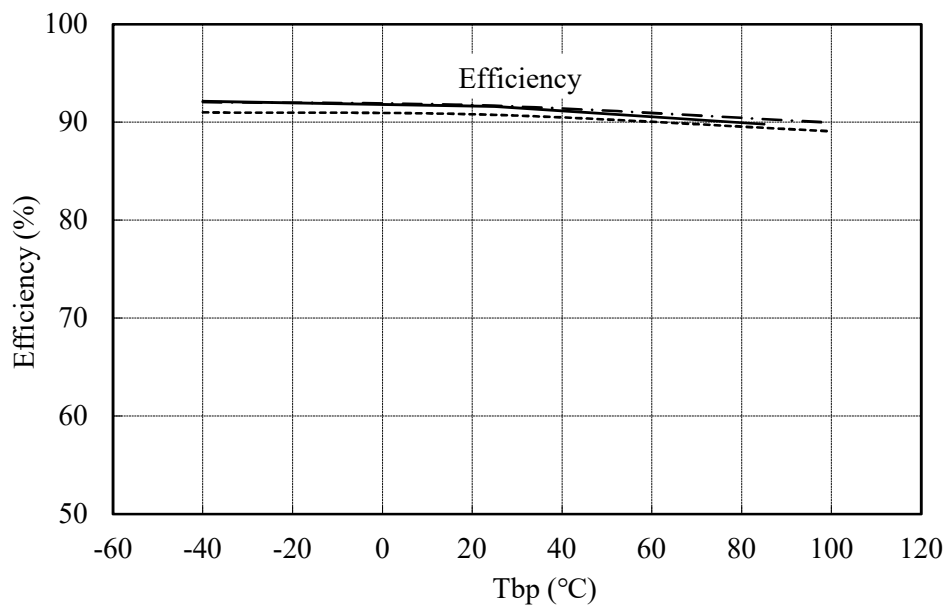
2.1 (5) 効率対ベースプレート温度
Efficiency v.s. Baseplate temperature

Conditions Vin : 280 VDC
 Iout : 50 % -----
 : 80 % -.-.-.-.
 : 100 % _____

28V



48V

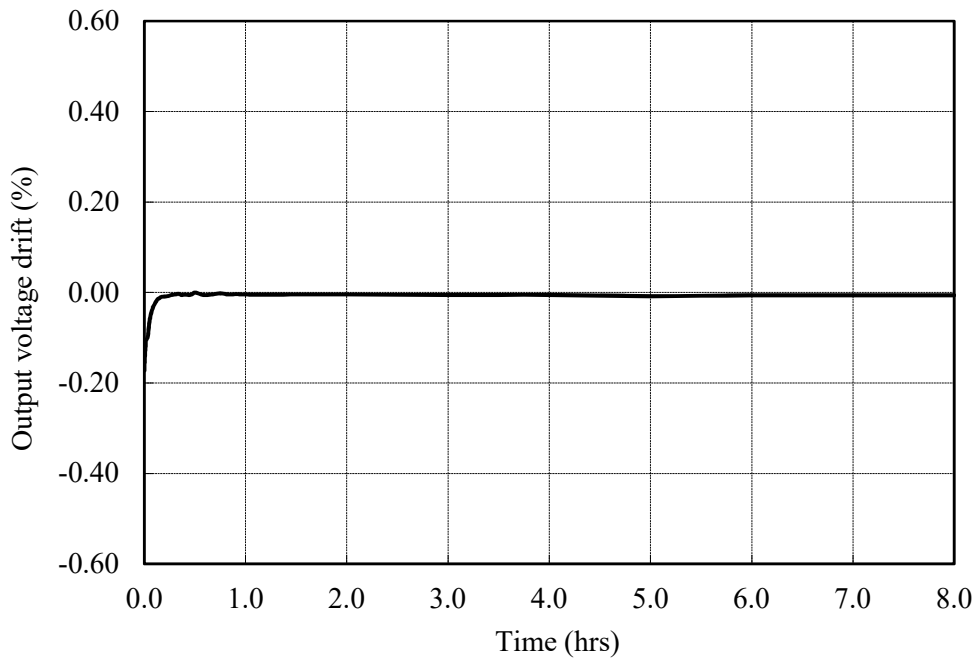


2.2 通電ドリフト特性

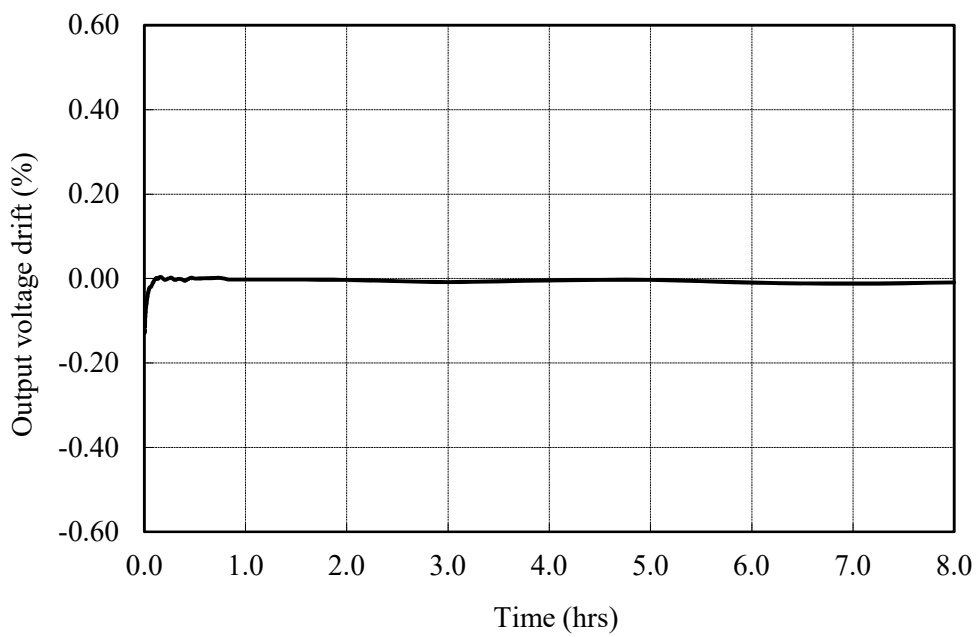
Warm up voltage drift characteristics

Conditions Vin : 280 VDC
Iout : 100 %
Ta : 25 °C

12V



24V



2.2 通電ドリフト特性

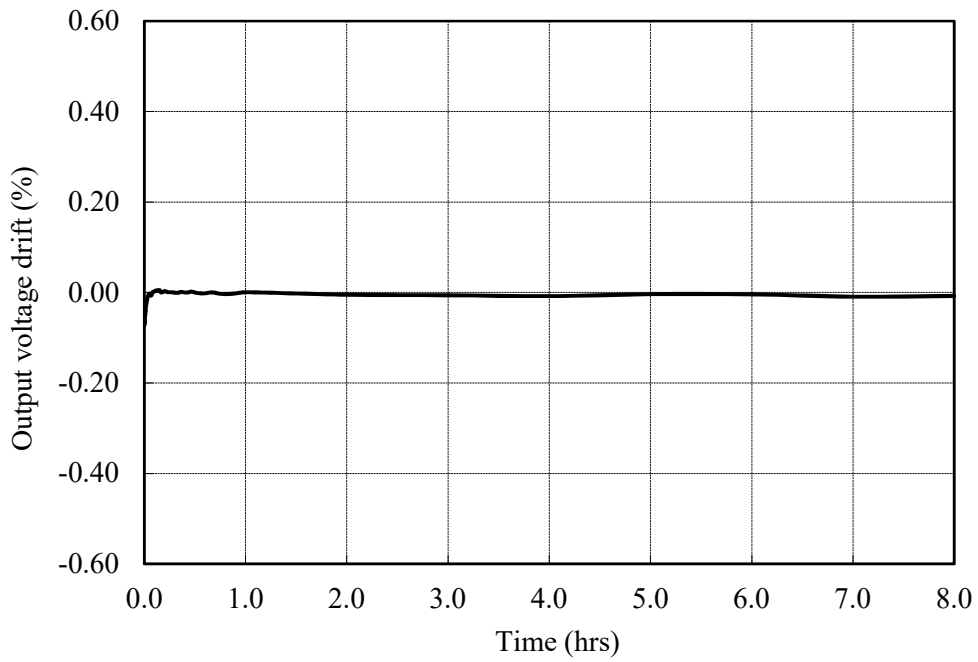
Warm up voltage drift characteristics

Conditions Vin : 280 VDC

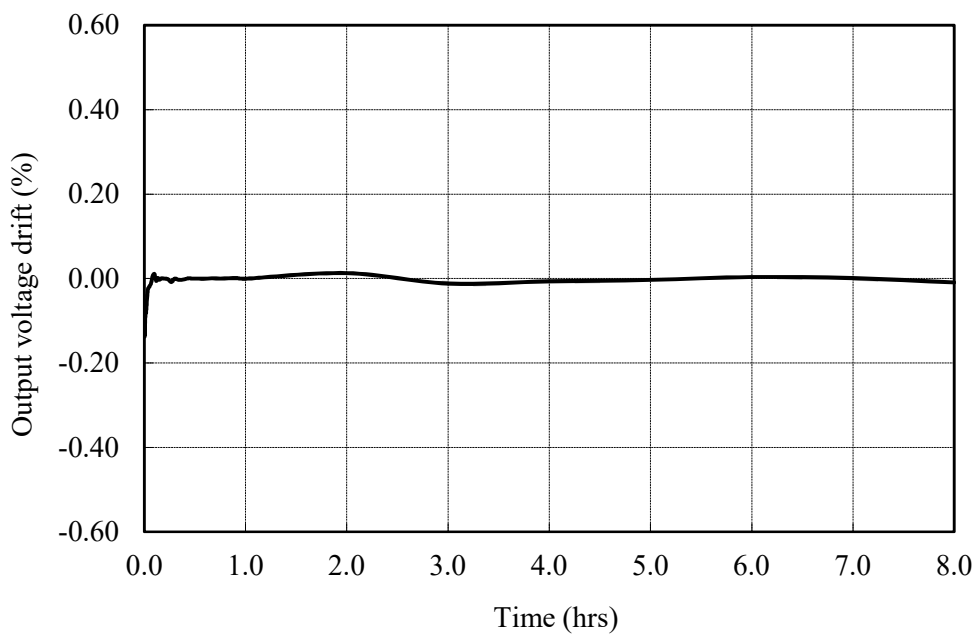
Iout : 100 %

Ta : 25 °C

28V



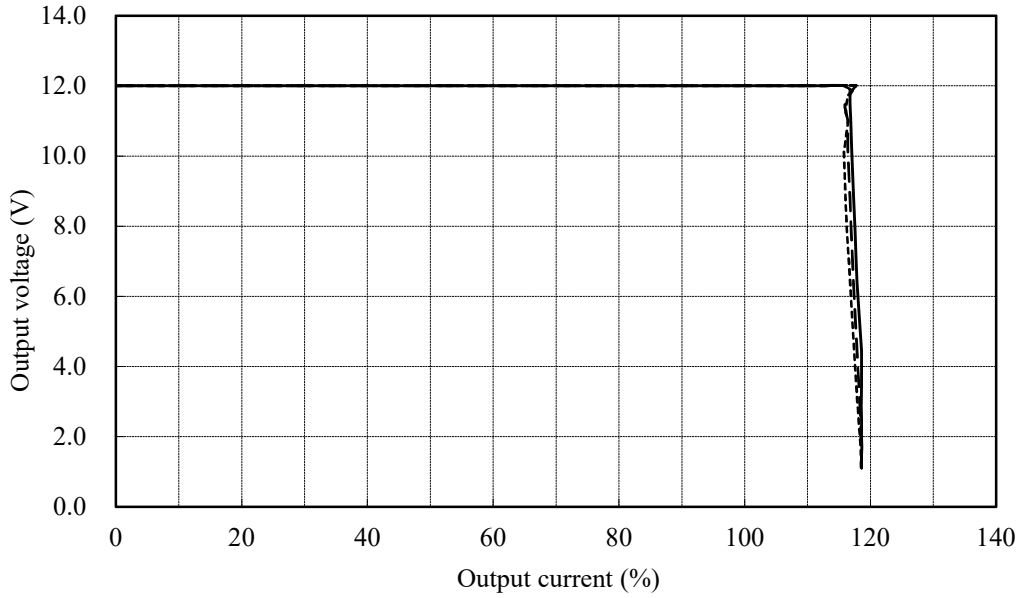
48V



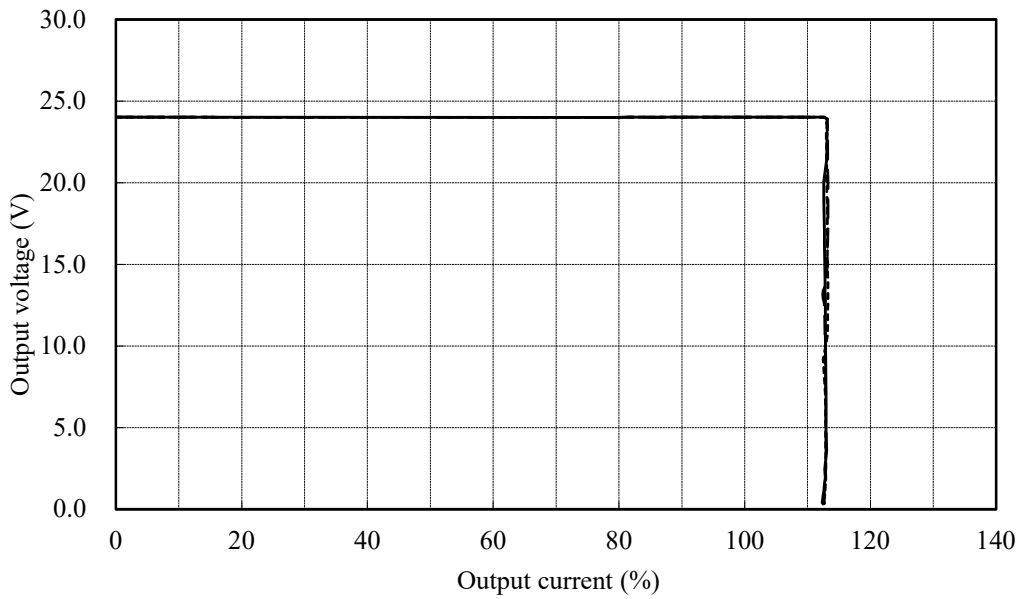
2.3 過電流保護特性
Over current protection (OCP) characteristics

Conditions Vin : 200 VDC -----
 : 280 VDC - - - - -
 : 400 VDC ————
 Tbp : 25 °C

12V



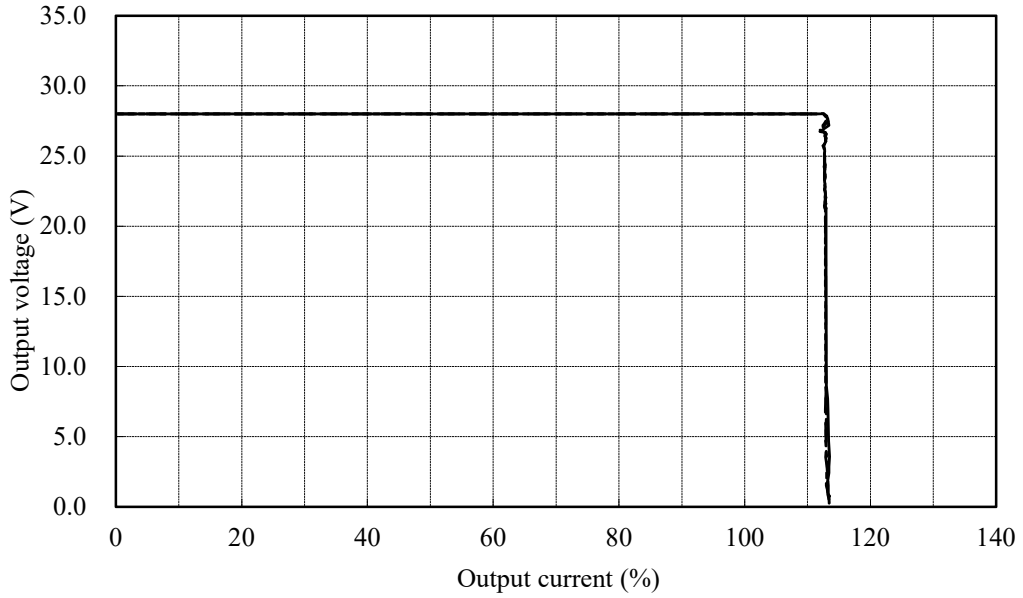
24V



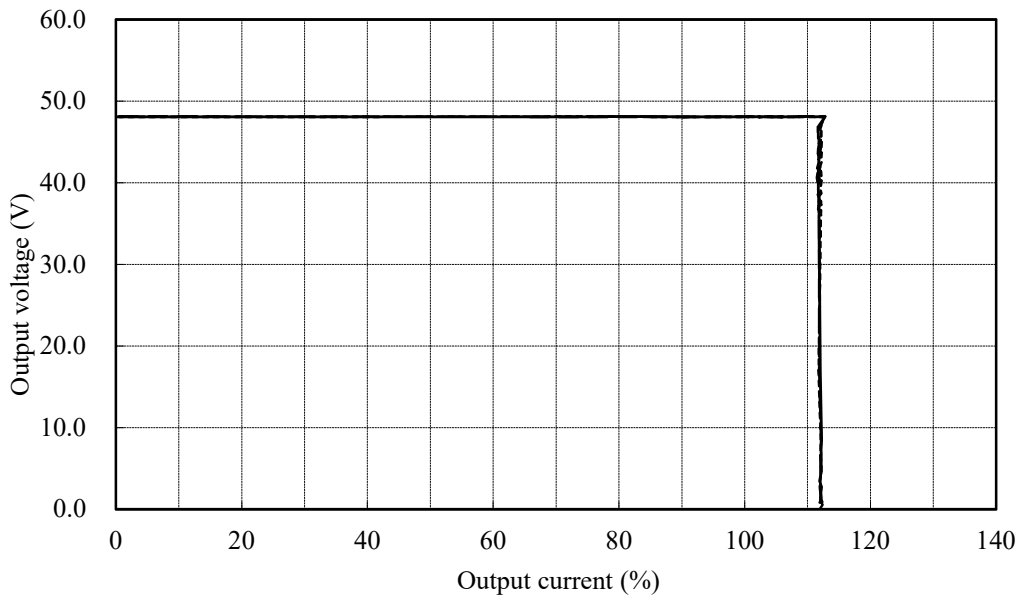
2.3 過電流保護特性
Over current protection (OCP) characteristics

Conditions Vin : 200 VDC -----
 : 280 VDC - - - - -
 : 400 VDC ————
Tbp : 25 °C

28V



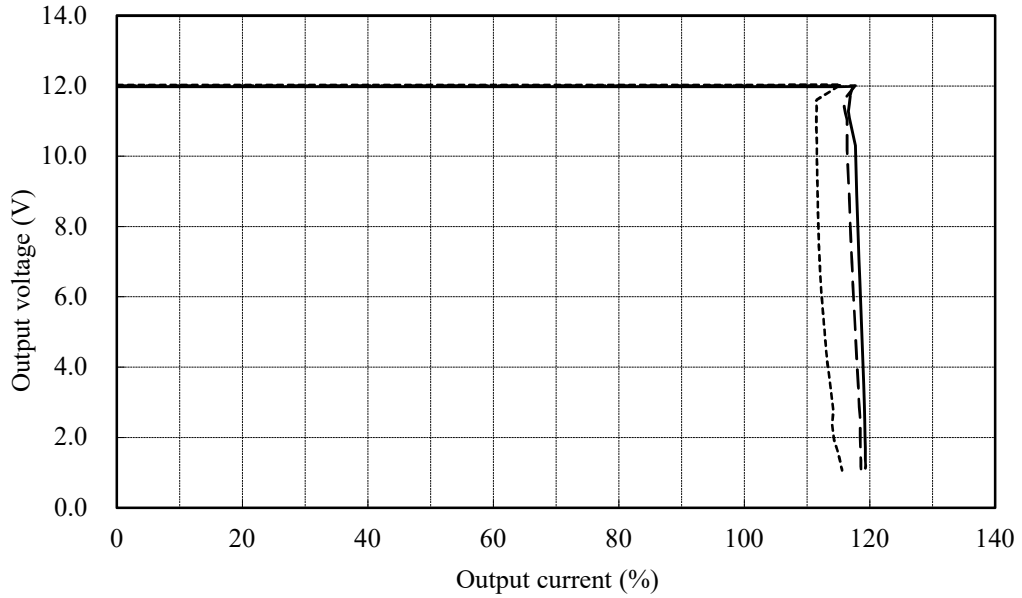
48V



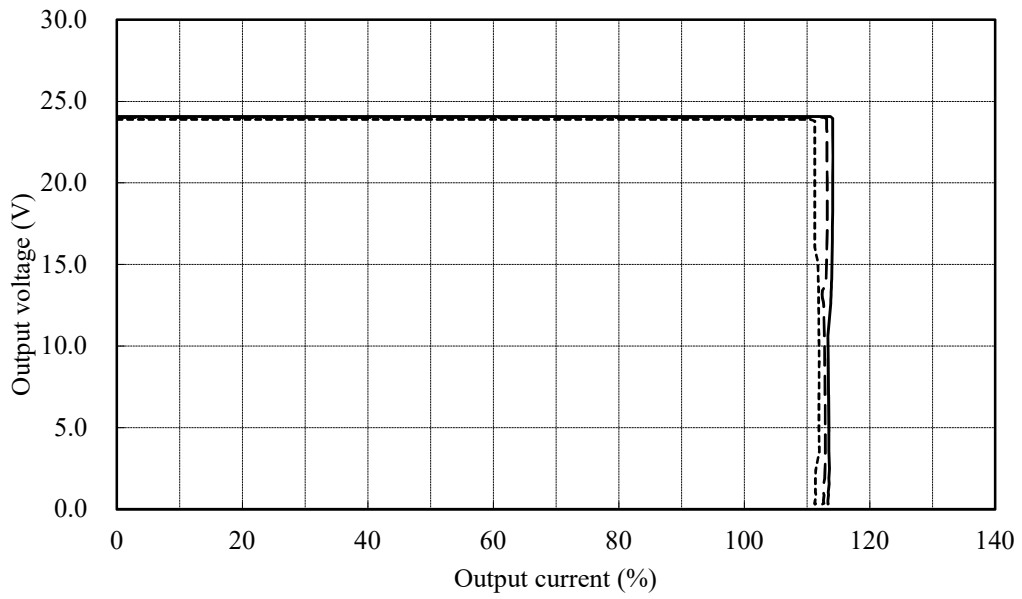
2.3 過電流保護特性
Over current protection (OCP) characteristics

Conditions Vin : 280 VDC
Tbp : -40 °C -----
 : 25 °C - - - - -
 : 100 °C —————

12V



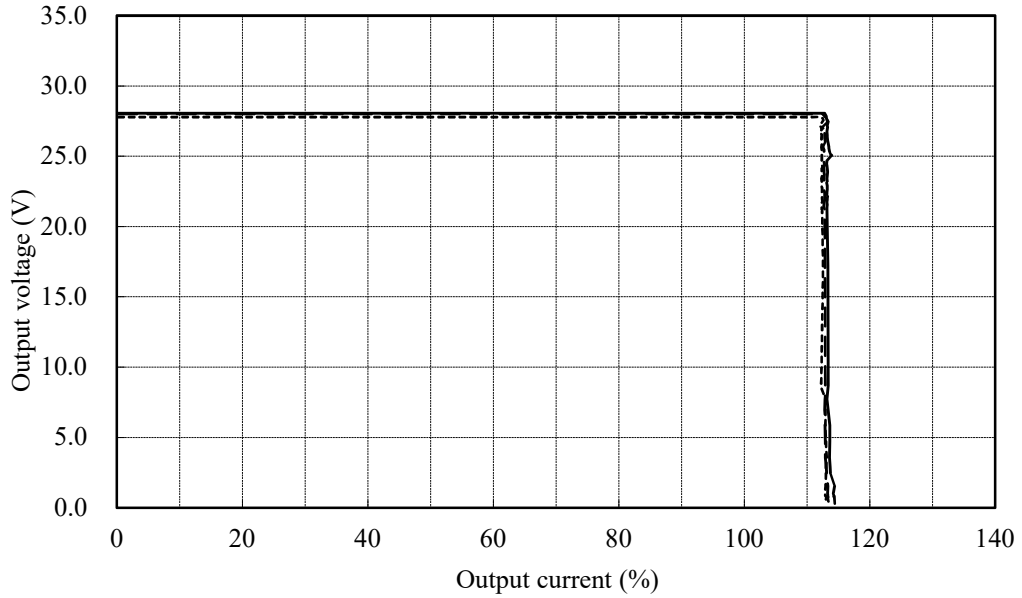
24V



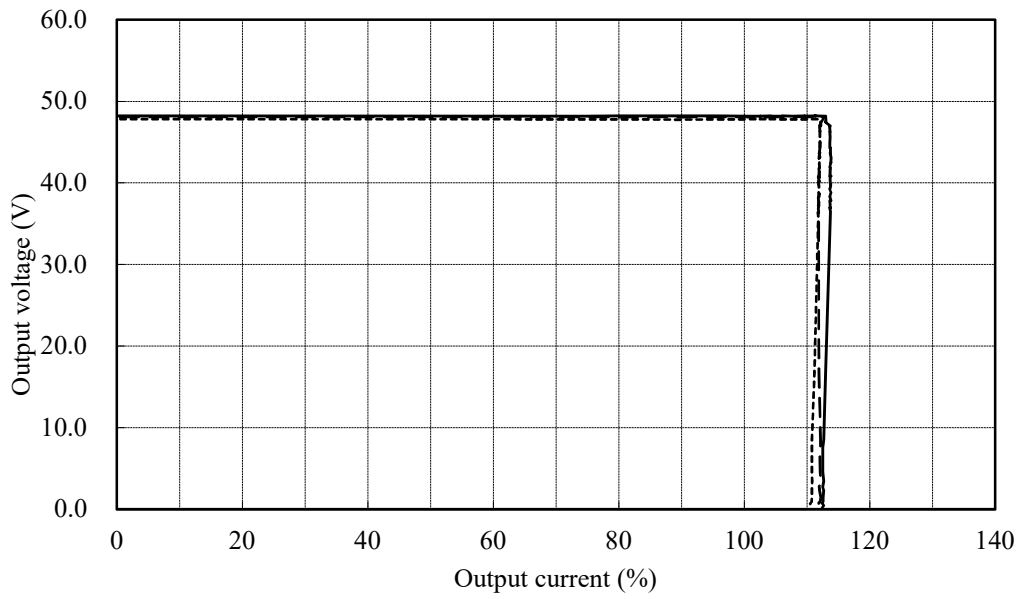
2.3 過電流保護特性
Over current protection (OCP) characteristics

Conditions Vin : 280 VDC
Tbp : -40 °C -----
: 25 °C - - - - -
: 100 °C _____

28V



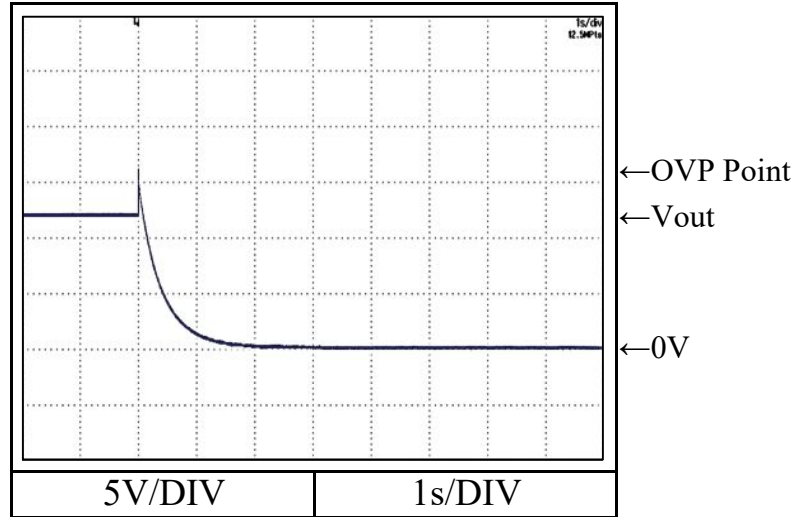
48V



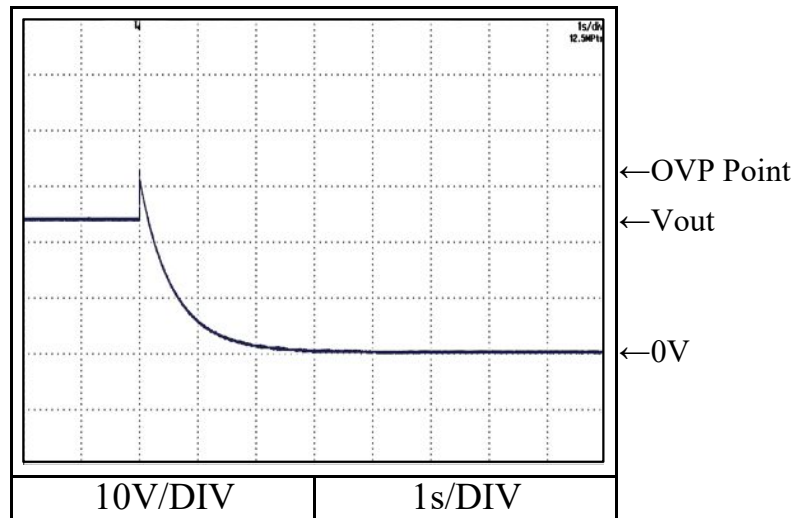
2.4 過電圧保護特性
Over voltage protection (OVP) characteristics

Conditions V_{in} : 280 VDC
 I_{out} : 0 %
 T_{bp} : 25 °C

12V



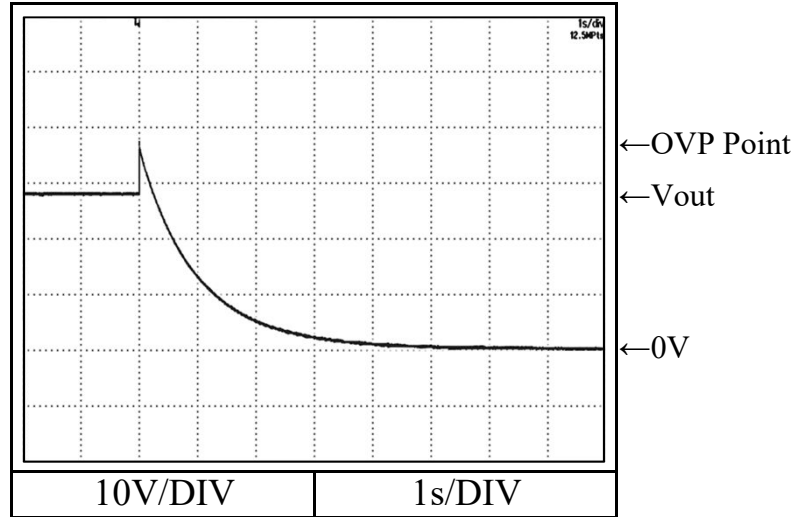
24V



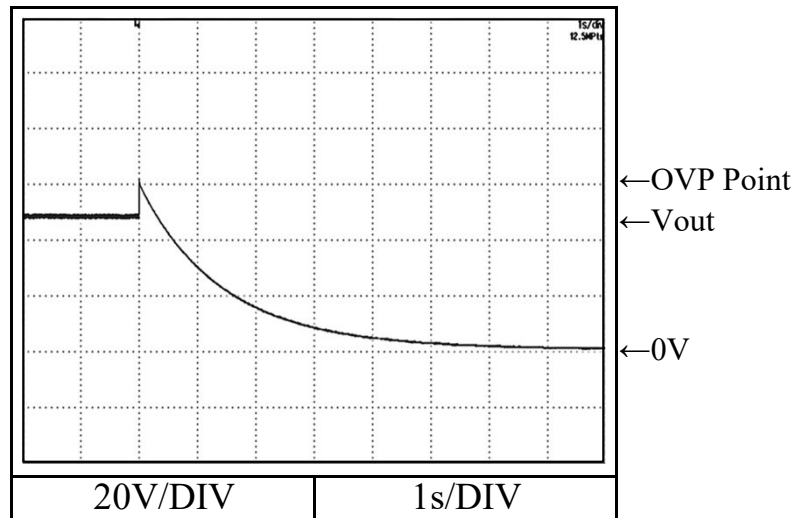
2.4 過電圧保護特性
Over voltage protection (OVP) characteristics

Conditions V_{in} : 280 VDC
 I_{out} : 0 %
 T_{bp} : 25 °C

28V



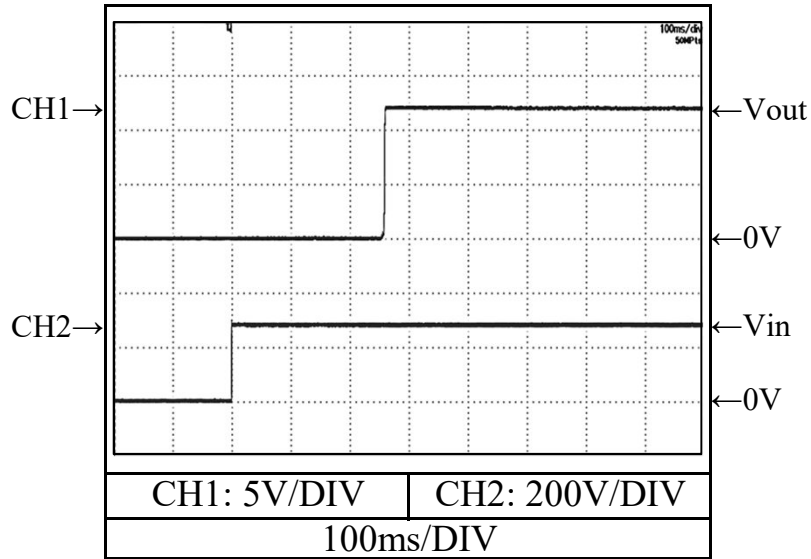
48V



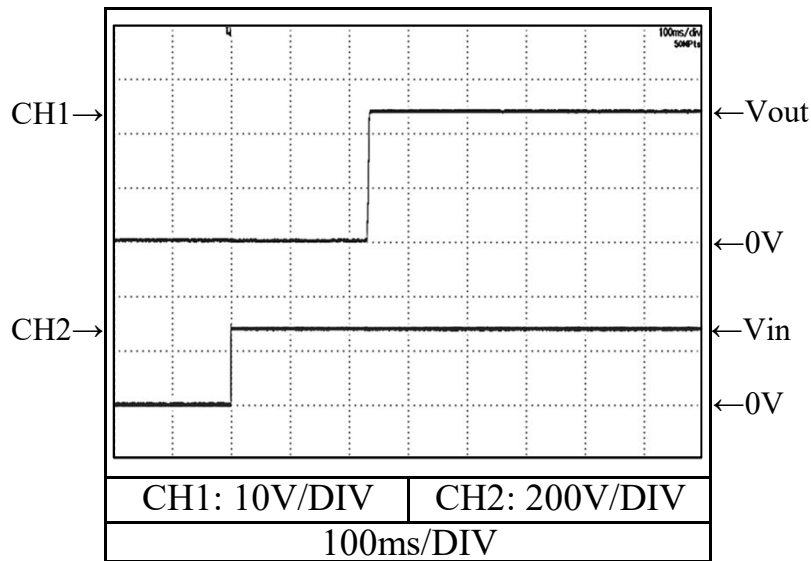
2.5 出力立ち上がり特性
Output rise characteristics

Conditions Vin : 280 VDC
Iout : 0 %
Tbp : 25 °C

12V



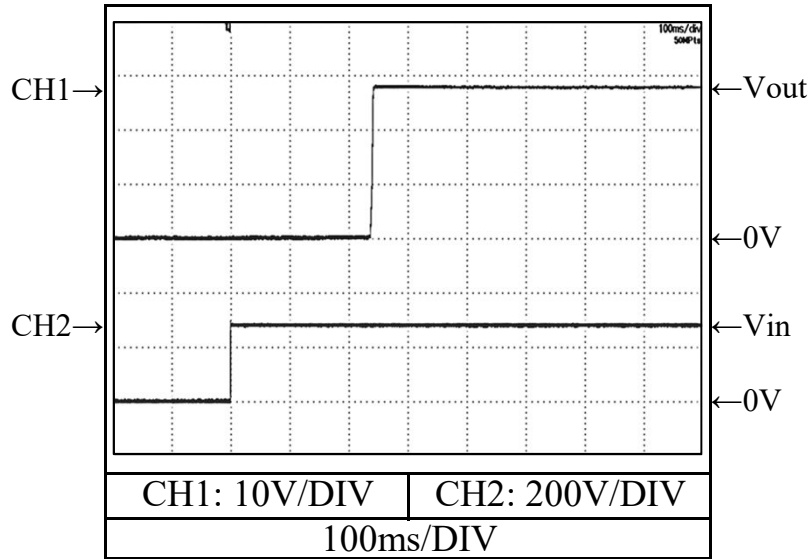
24V



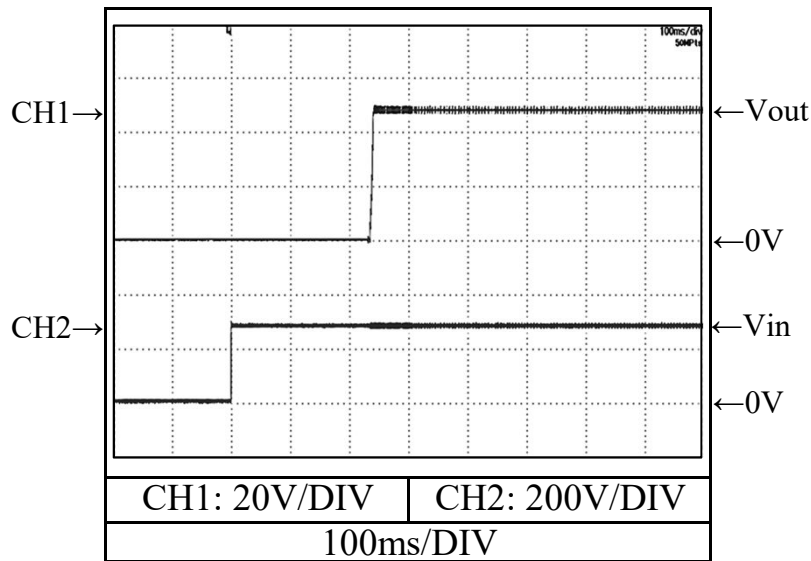
2.5 出力立ち上がり特性
Output rise characteristics

Conditions Vin : 280 VDC
Iout : 0 %
Tbp : 25 °C

28V



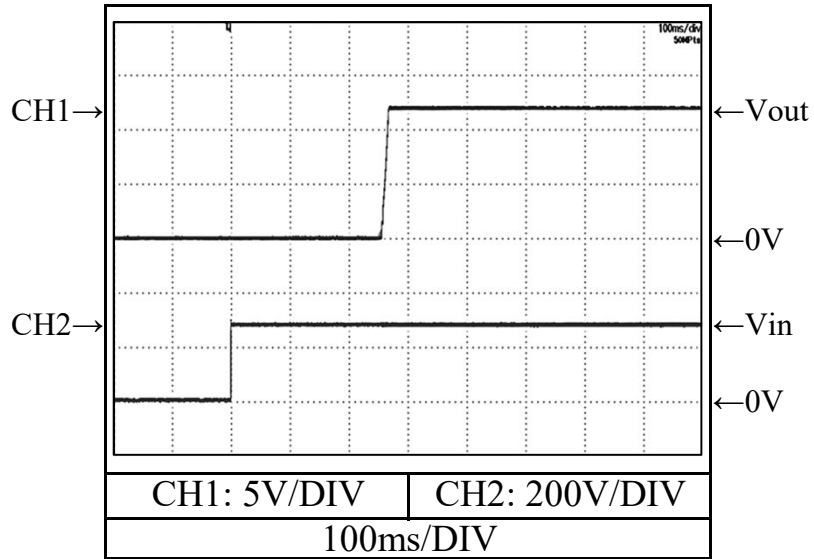
48V



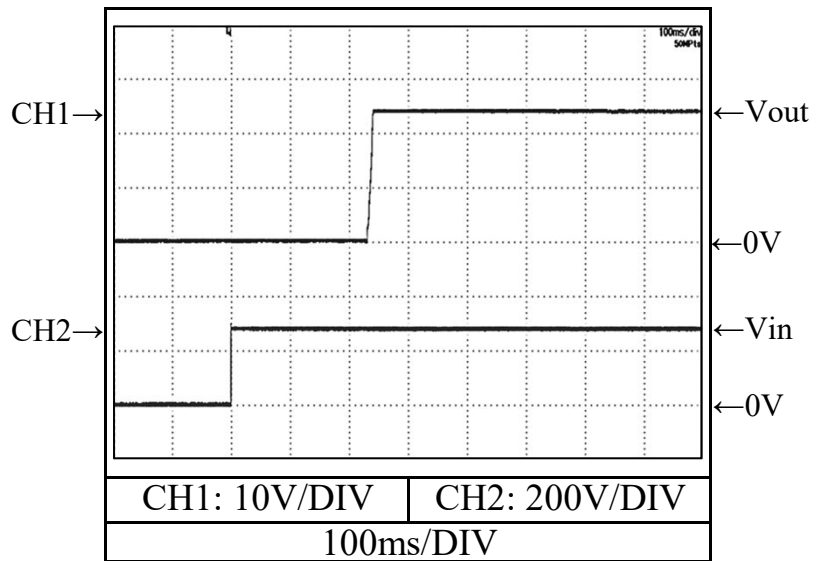
2.5 出力立ち上がり特性
Output rise characteristics

Conditions Vin : 280 VDC
Iout : 100 %
Tbp : 25 °C

12V



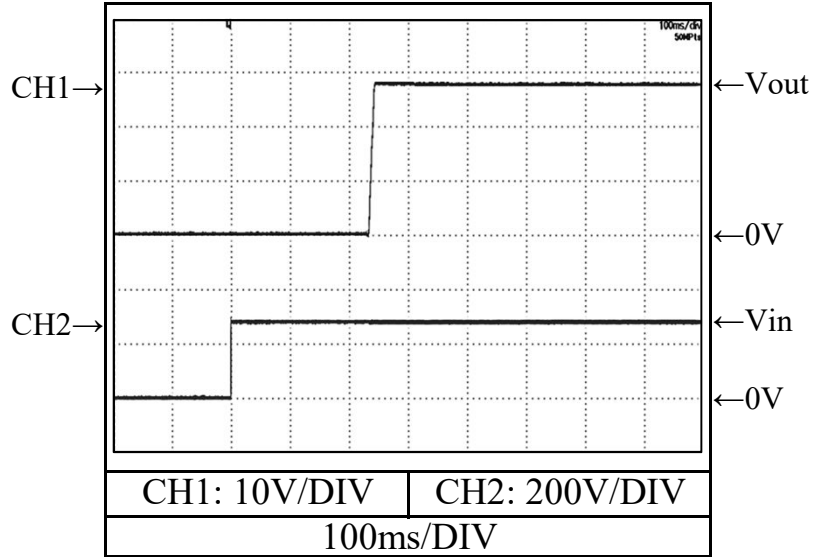
24V



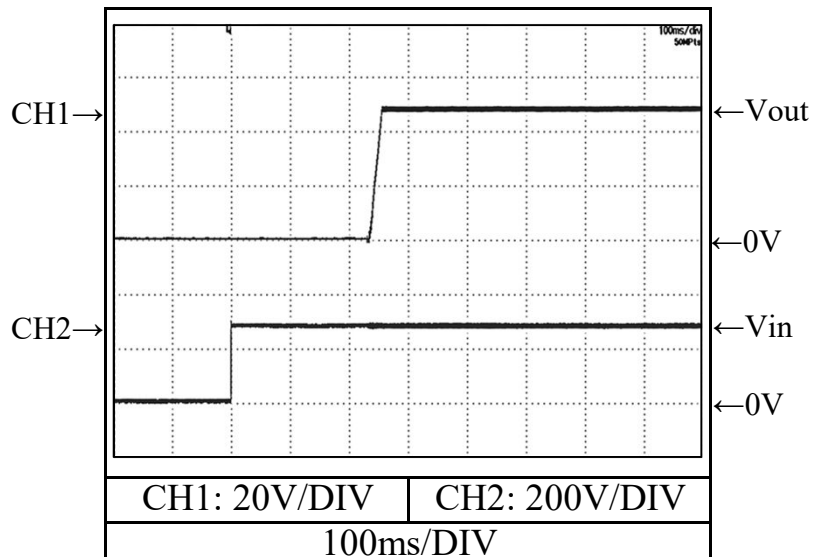
2.5 出力立ち上がり特性
Output rise characteristics

Conditions Vin : 280 VDC
Iout : 100 %
Tbp : 25 °C

28V



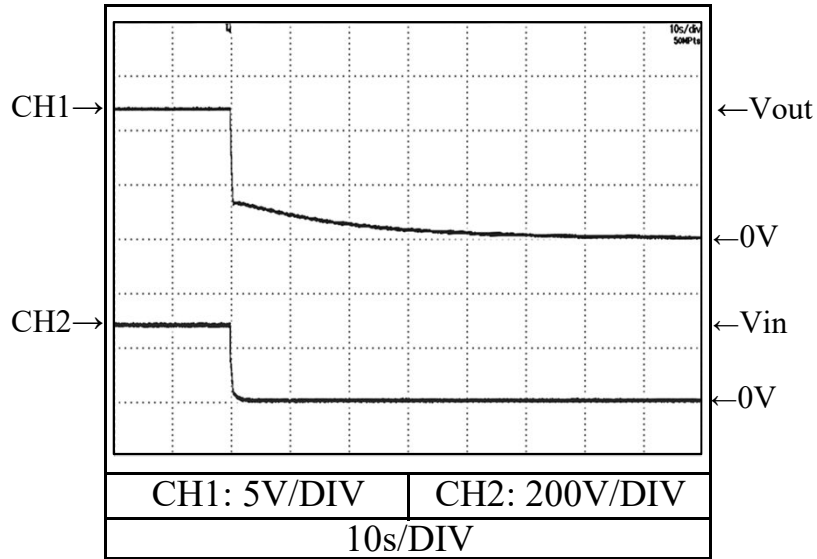
48V



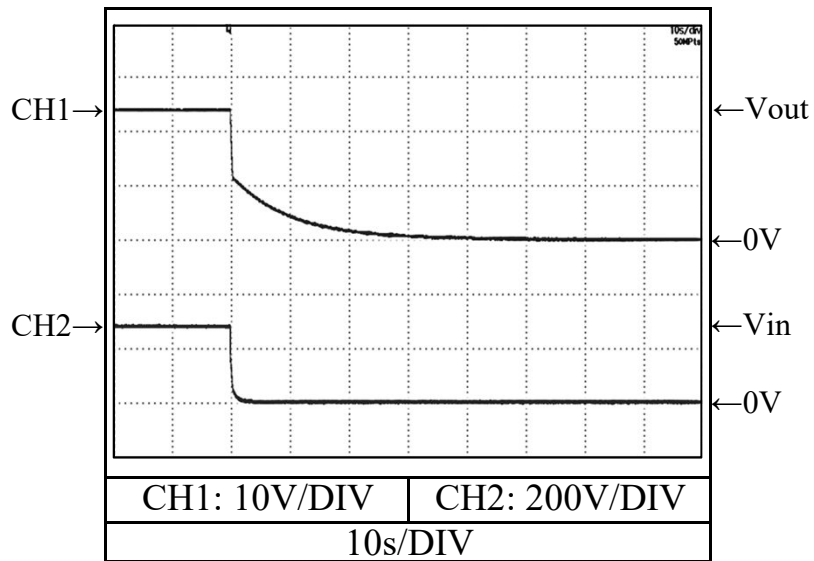
2.6 出力立ち下がり特性
Output fall characteristics

Conditions Vin : 280 VDC
Iout : 0 %
Tbp : 25 °C

12V



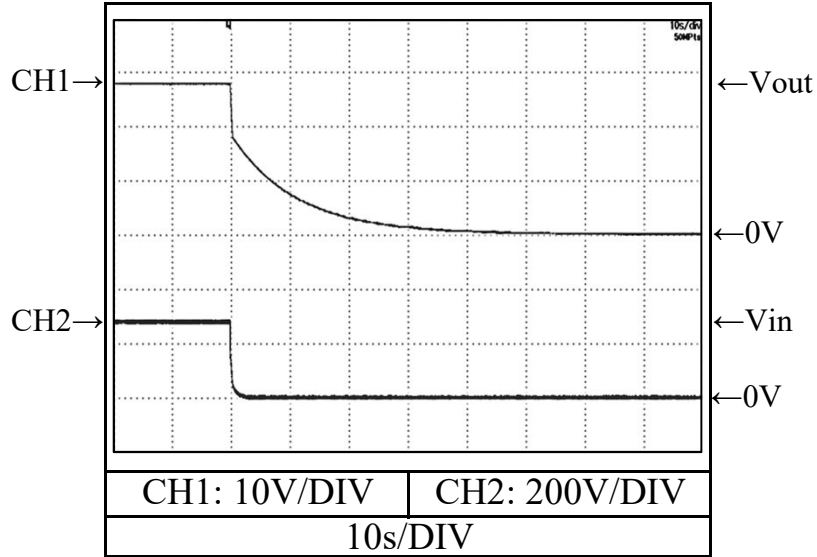
24V



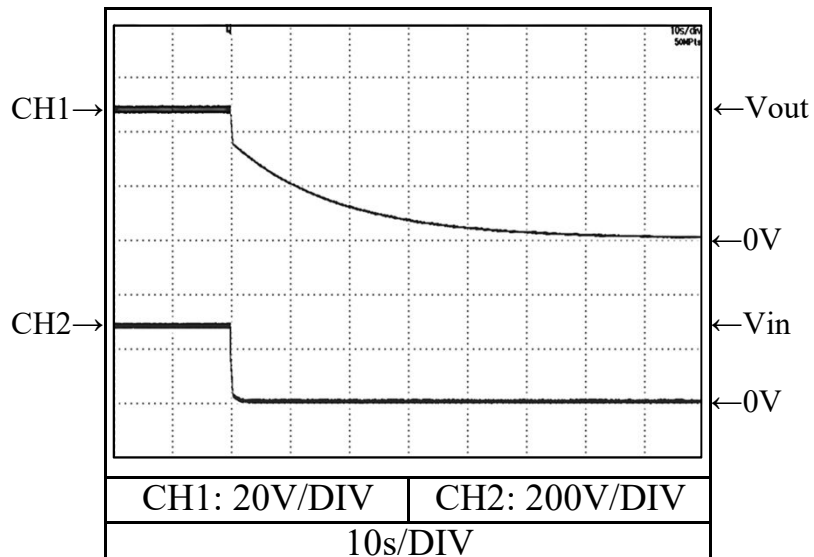
2.6 出力立ち下がり特性
Output fall characteristics

Conditions Vin : 280 VDC
Iout : 0 %
Tbp : 25 °C

28V



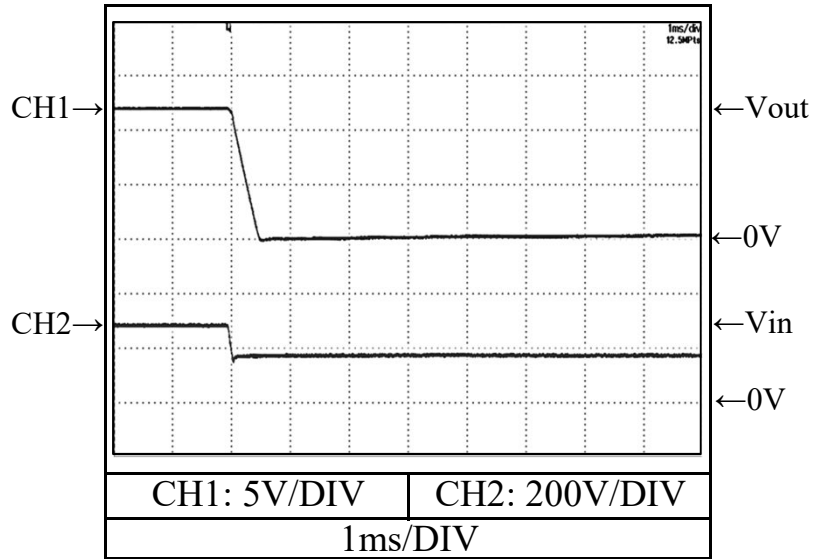
48V



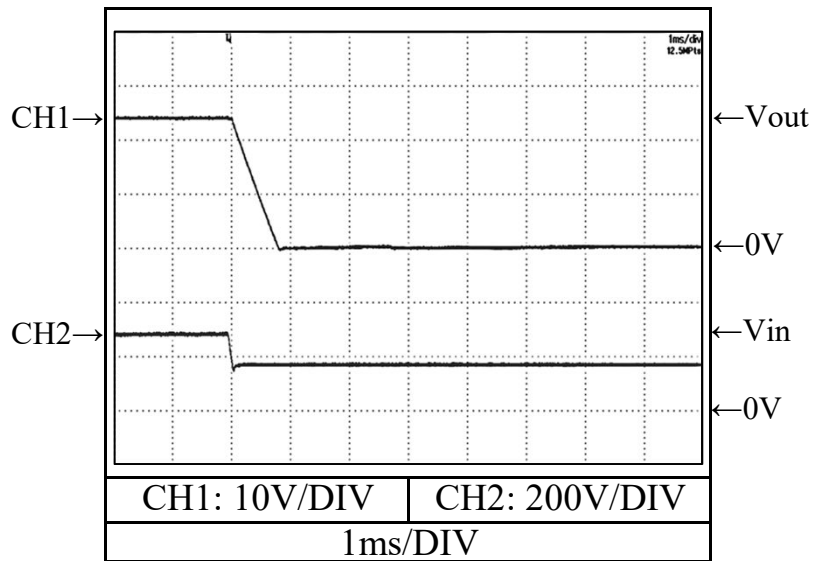
2.6 出力立ち下がり特性
Output fall characteristics

Conditions Vin : 280 VDC
Iout : 100 %
Tbp : 25 °C

12V



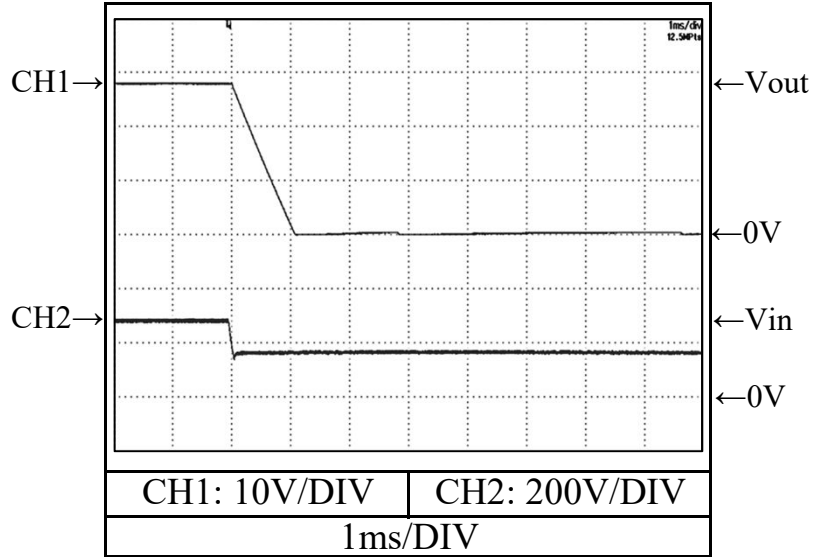
24V



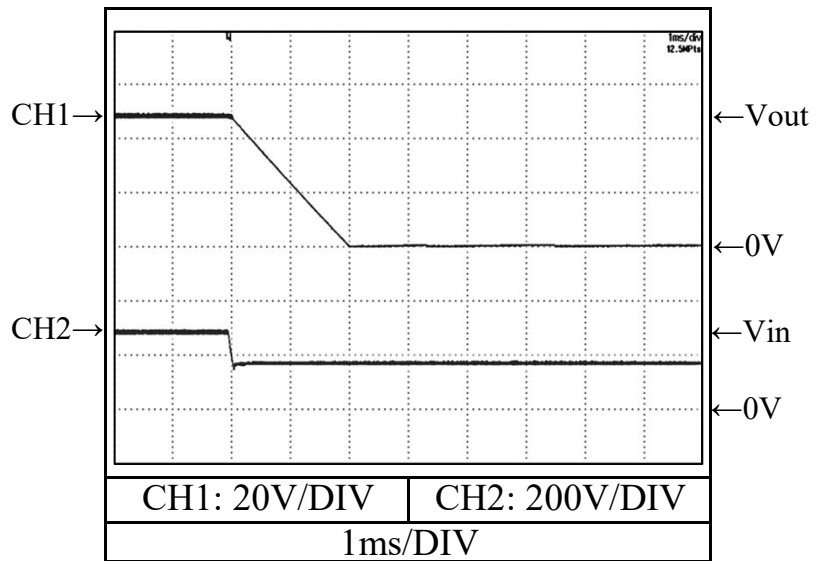
2.6 出力立ち下がり特性
Output fall characteristics

Conditions Vin : 280 VDC
Iout : 100 %
Tbp : 25 °C

28V



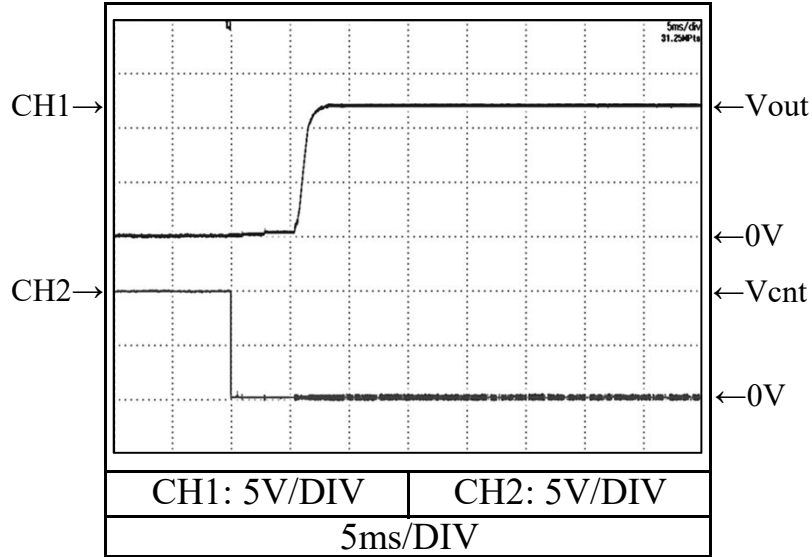
48V



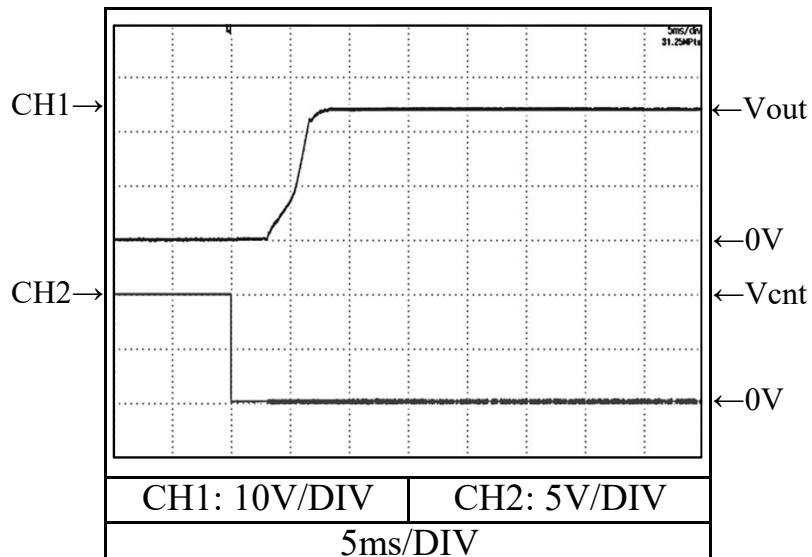
2.7 出力立ち上がり特性 (ON/OFFコントロール時)
 Output rise characteristics with ON/OFF CONTROL

Conditions Vin : 280 VDC
 Iout : 0 %
 Tbp : 25 °C

12V



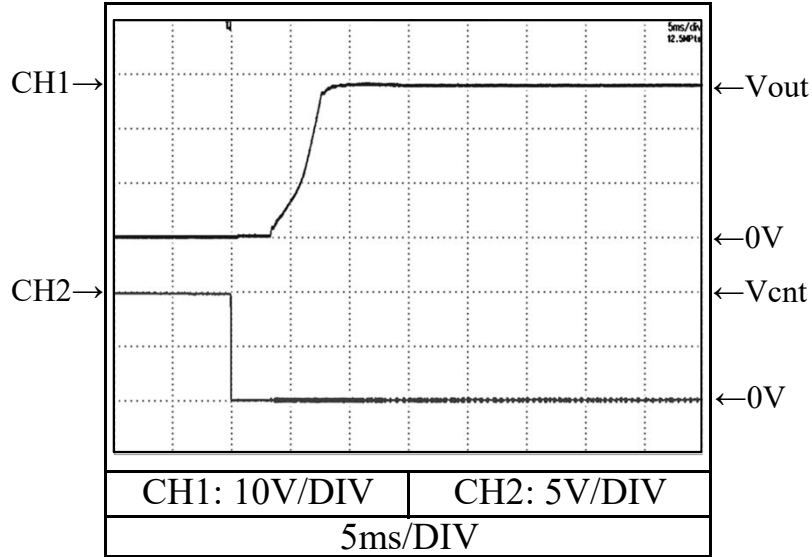
24V



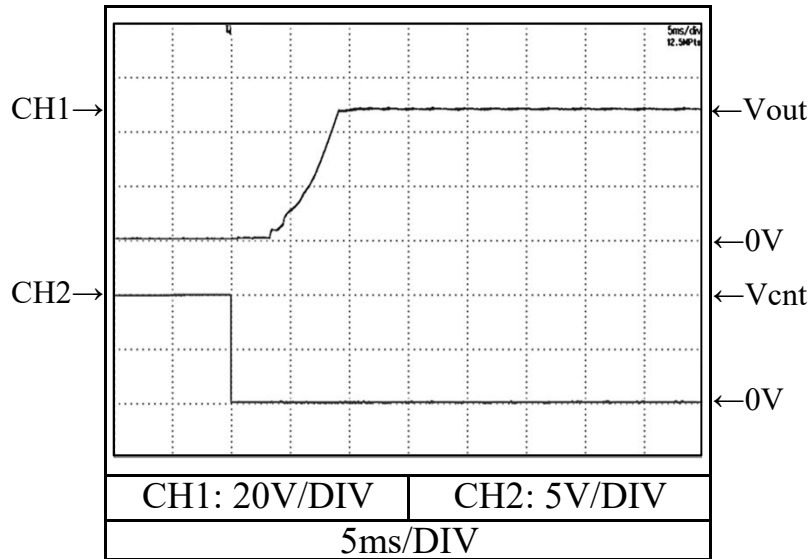
2.7 出力立ち上がり特性 (ON/OFFコントロール時)
 Output rise characteristics with ON/OFF CONTROL

Conditions Vin : 280 VDC
 Iout : 0 %
 Tbp : 25 °C

28V



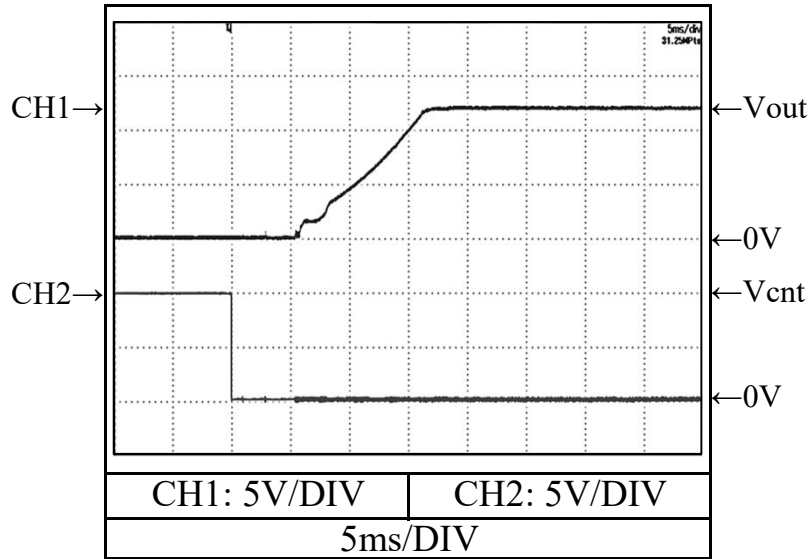
48V



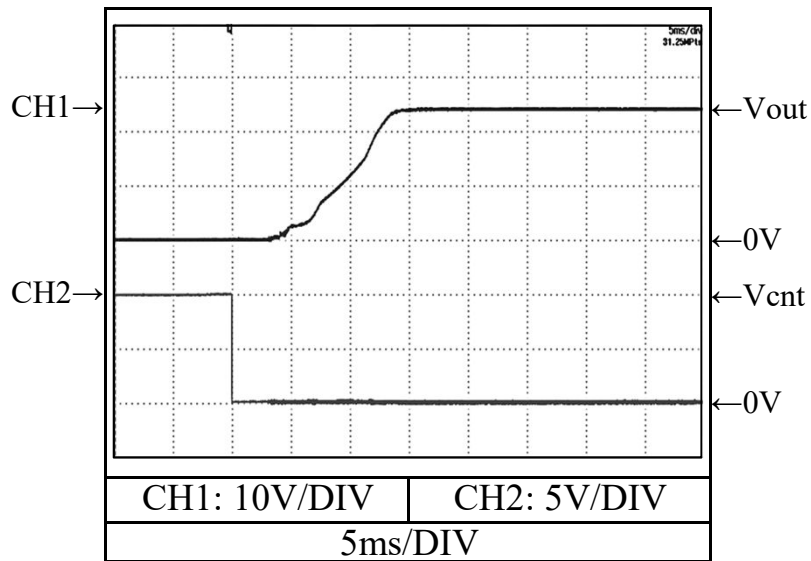
2.7 出力立ち上がり特性 (ON/OFFコントロール時)
 Output rise characteristics with ON/OFF CONTROL

Conditions V_{in} : 280 VDC
 I_{out} : 100 %
 T_{bp} : 25 °C

12V



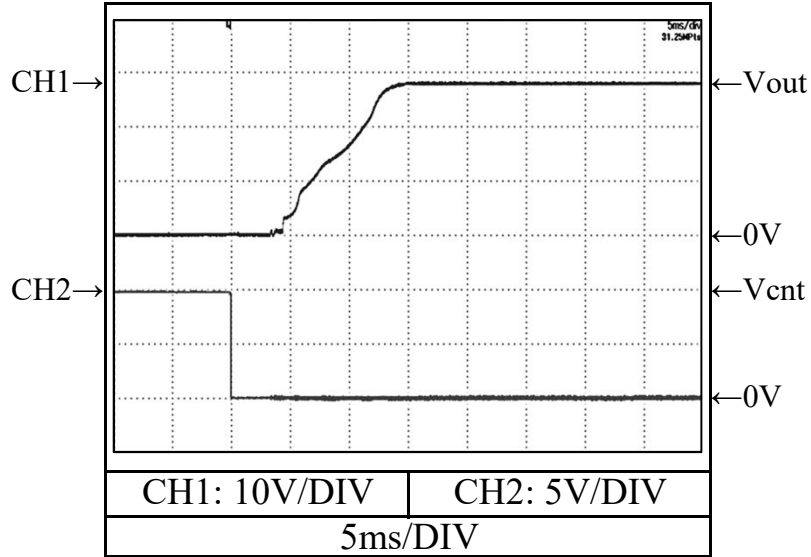
24V



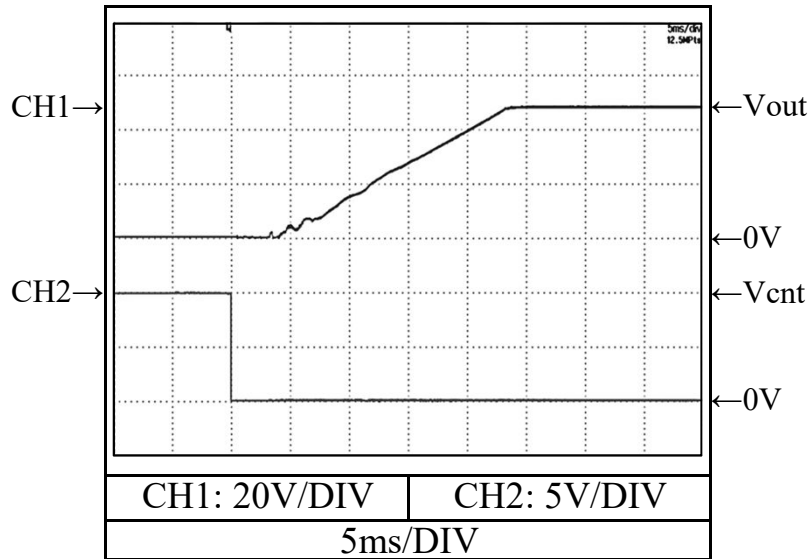
2.7 出力立ち上がり特性 (ON/OFFコントロール時)
Output rise characteristics with ON/OFF CONTROL

Conditions Vin : 280 VDC
Iout : 100 %
Tbp : 25 °C

28V



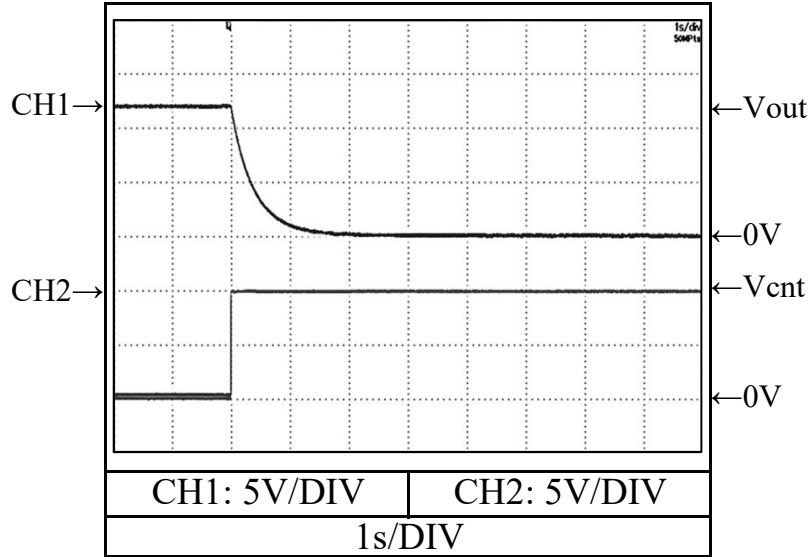
48V



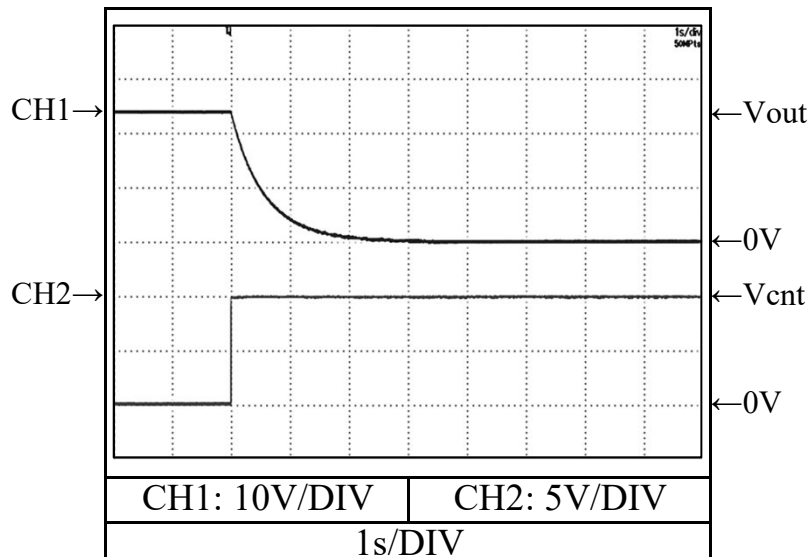
2.8 出力立ち下がり特性 (ON/OFFコントロール時)
 Output fall characteristics with ON/OFF CONTROL

Conditions V_{in} : 280 VDC
 I_{out} : 0 %
 T_{bp} : 25 °C

12V



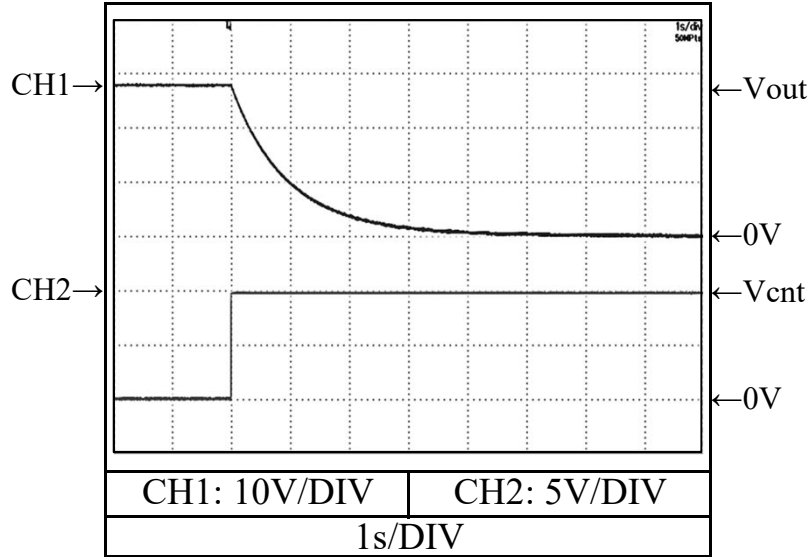
24V



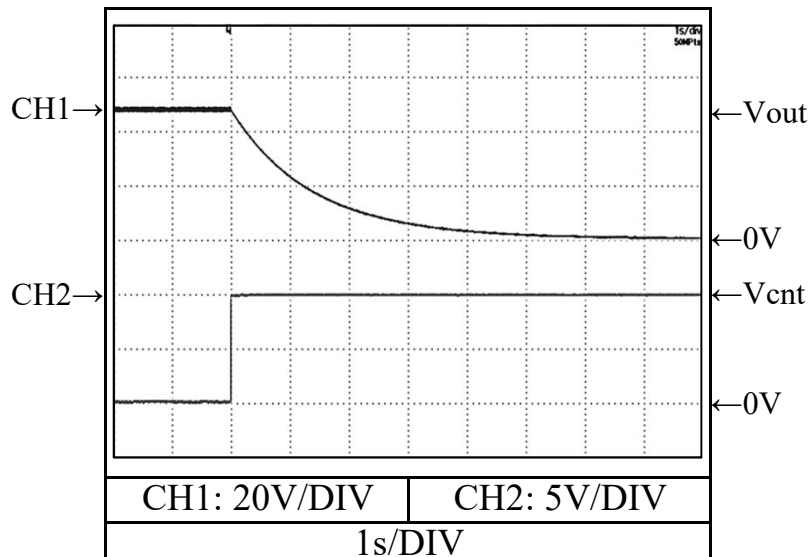
2.8 出力立ち下がり特性 (ON/OFFコントロール時)
 Output fall characteristics with ON/OFF CONTROL

Conditions V_{in} : 280 VDC
 I_{out} : 0 %
 T_{bp} : 25 °C

28V



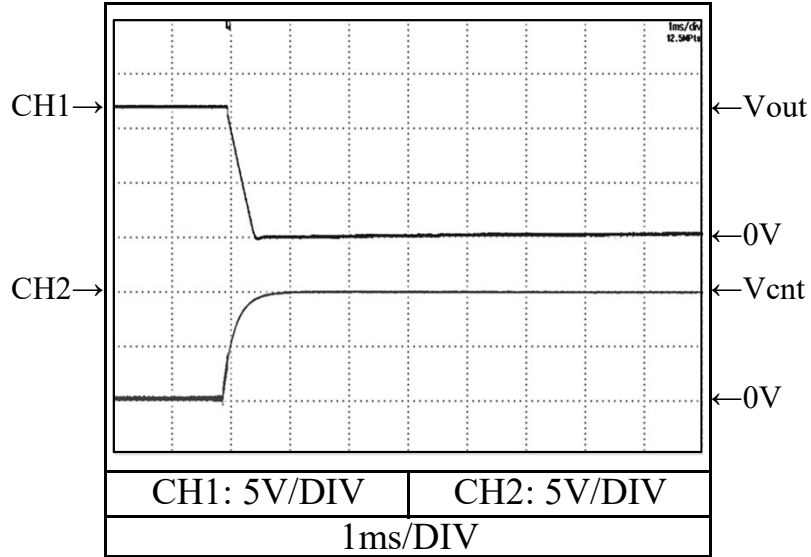
48V



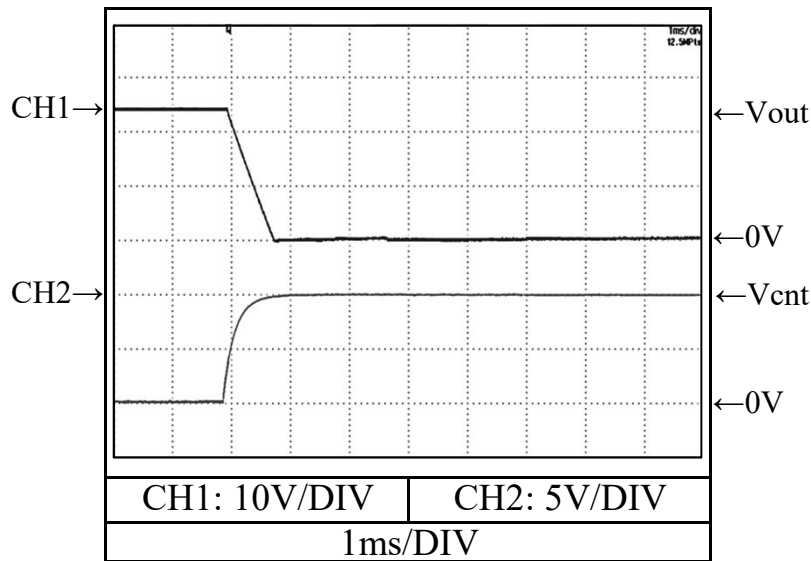
2.8 出力立ち下がり特性 (ON/OFFコントロール時)
 Output fall characteristics with ON/OFF CONTROL

Conditions Vin : 280 VDC
 Iout : 100 %
 Tbp : 25 °C

12V



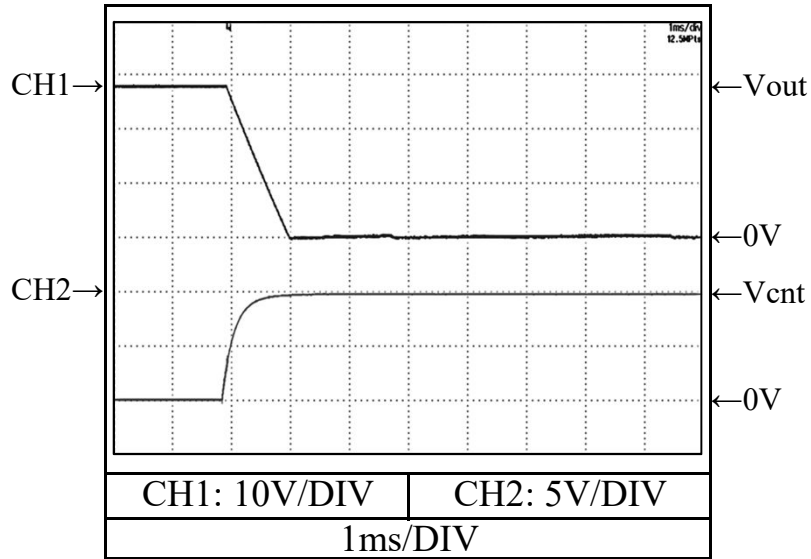
24V



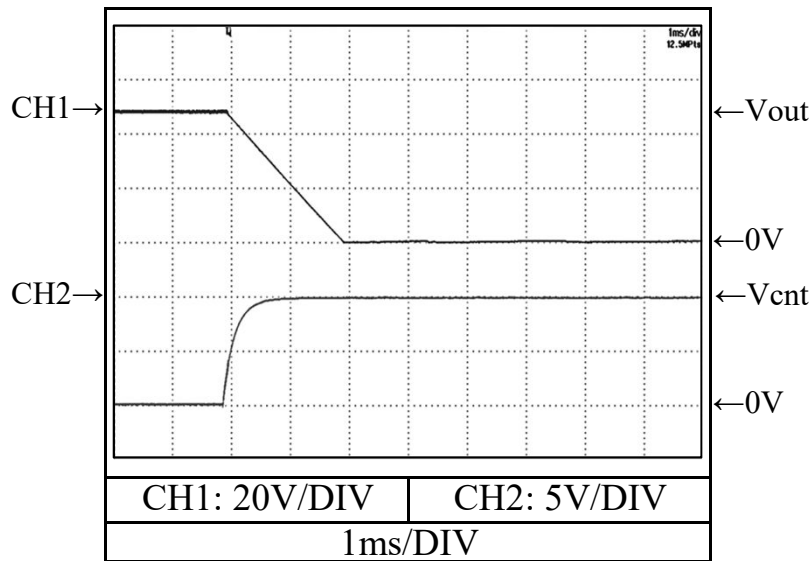
2.8 出力立ち下がり特性(ON/OFFコントロール時)
Output fall characteristics with ON/OFF CONTROL

Conditions Vin : 280 VDC
Iout : 100 %
Tbp : 25 °C

28V



48V

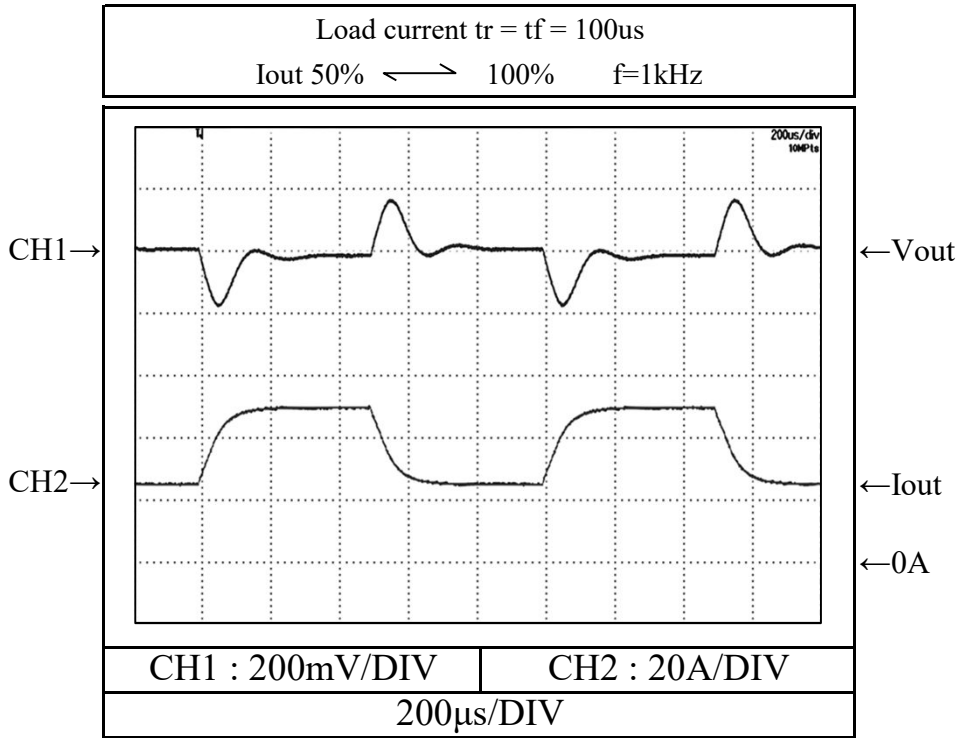


2.9 過渡応答(負荷急変)特性

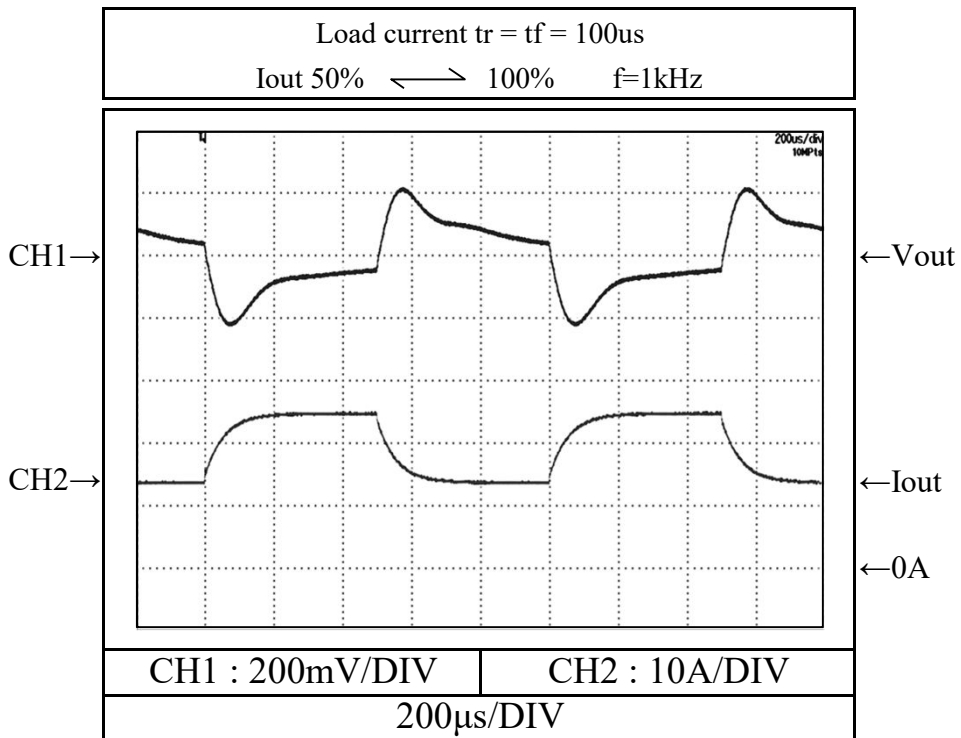
Dynamic load response characteristics

Conditions Vin : 280 VDC
Tbp : 25 °C

12V



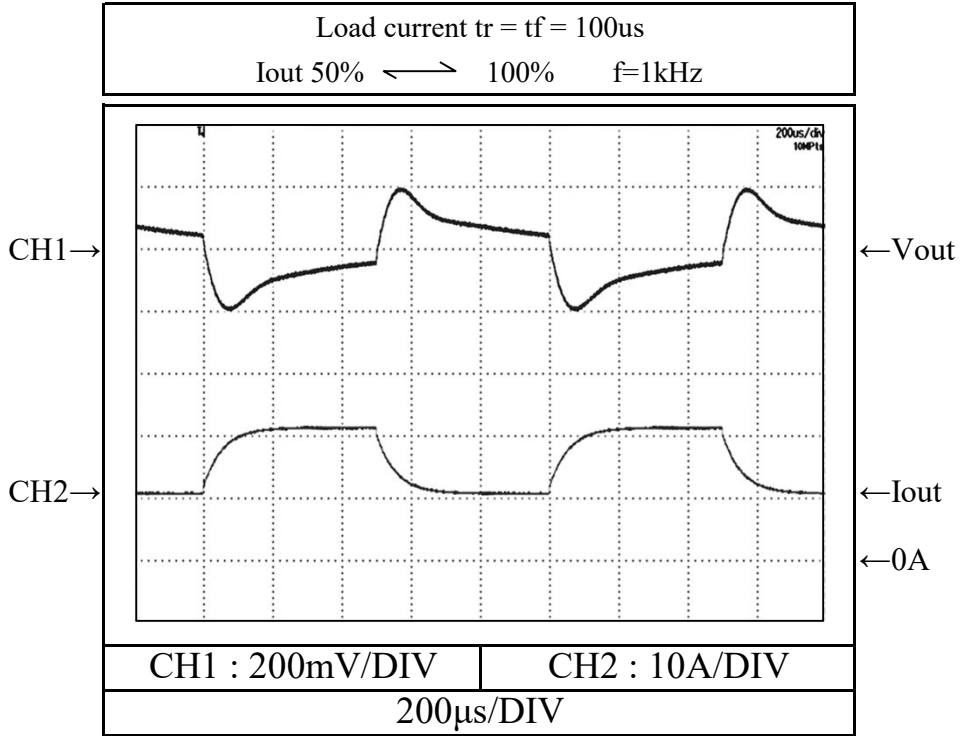
24V



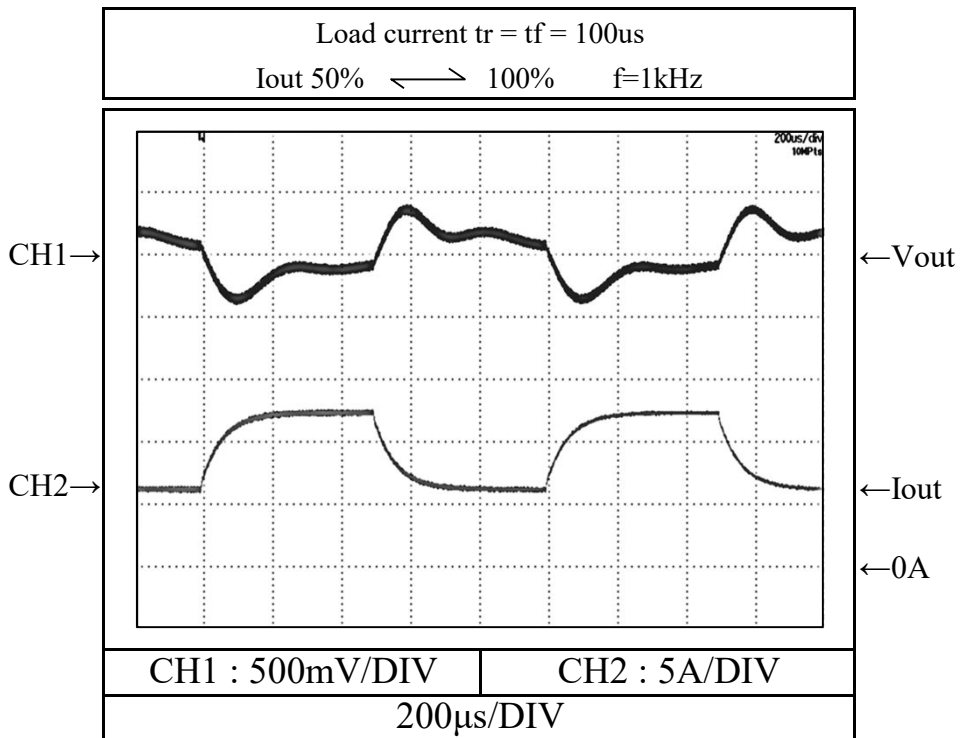
2.9 過渡応答(負荷急変)特性
Dynamic load response characteristics

Conditions Vin : 280 VDC
Tbp : 25 °C

28V



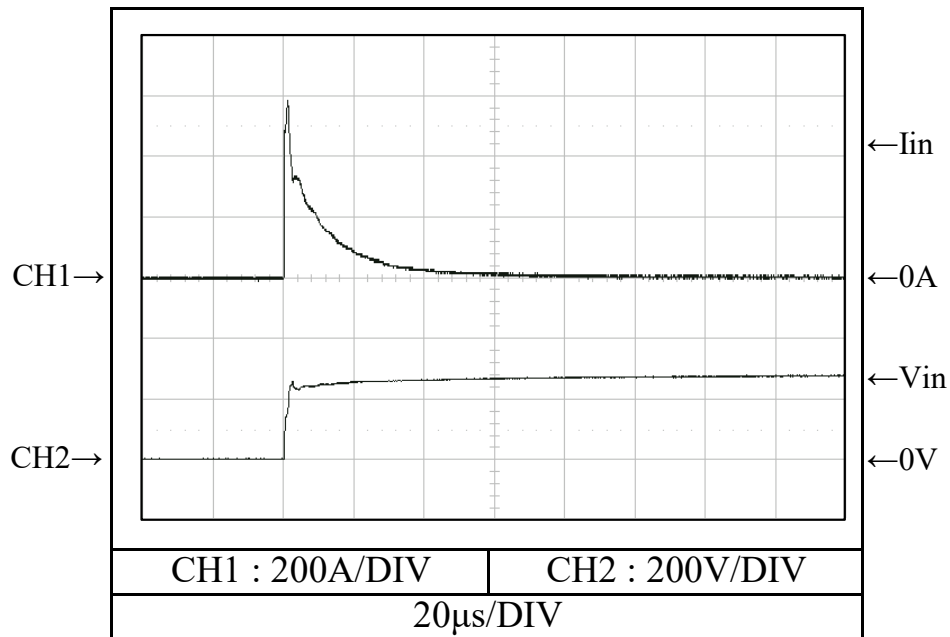
48V



2.10 入力サージ電流(突入電流)特性
Inrush current characteristics

Conditions Vin : 280 VDC
Iout : 100 %
Tbp : 25 °C

48V

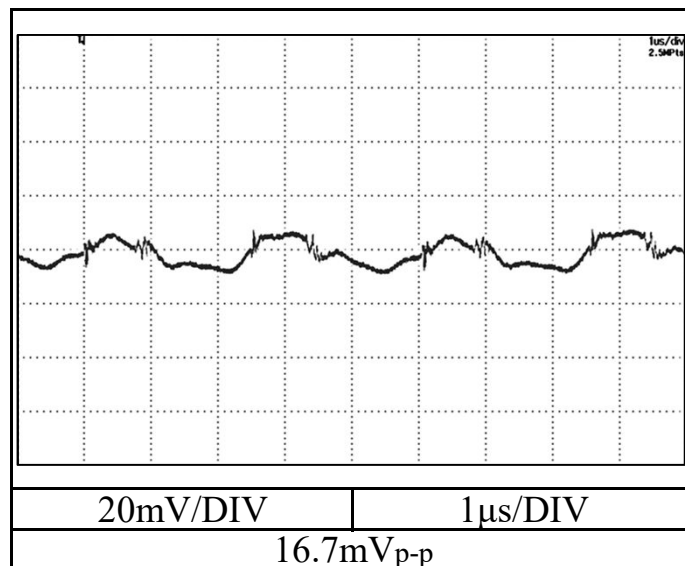


2.11 出力リップル、ノイズ波形
Output ripple and noise waveform

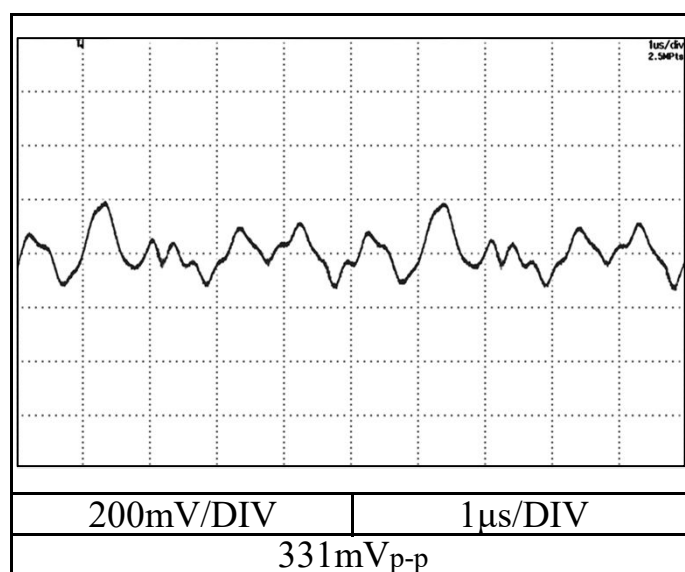
Conditions Vin : 280 VDC
Iout : 100 %
Tbp : 25 °C

12V

Normal mode



Normal + common mode

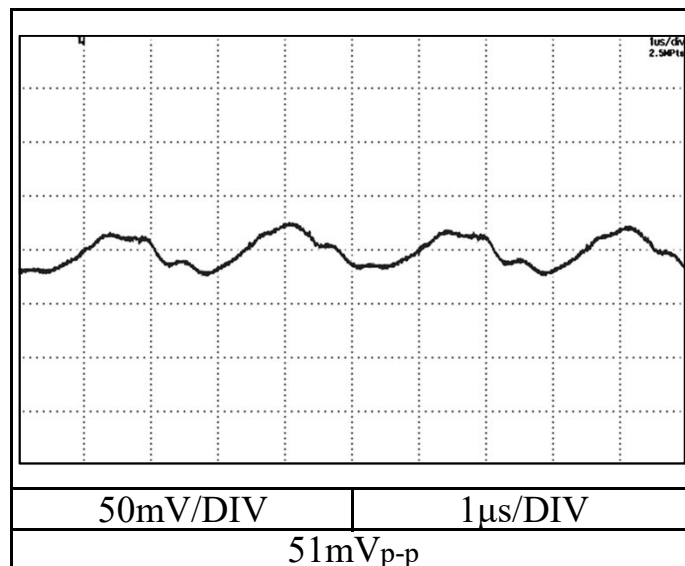


2.11 出力リップル、ノイズ波形
Output ripple and noise waveform

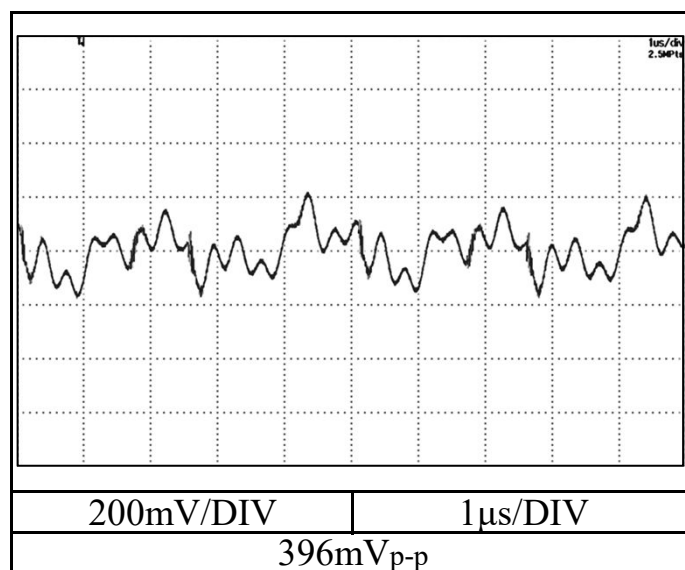
Conditions Vin : 280 VDC
Iout : 100 %
Tbp : 25 °C

24V

Normal mode



Normal + common mode

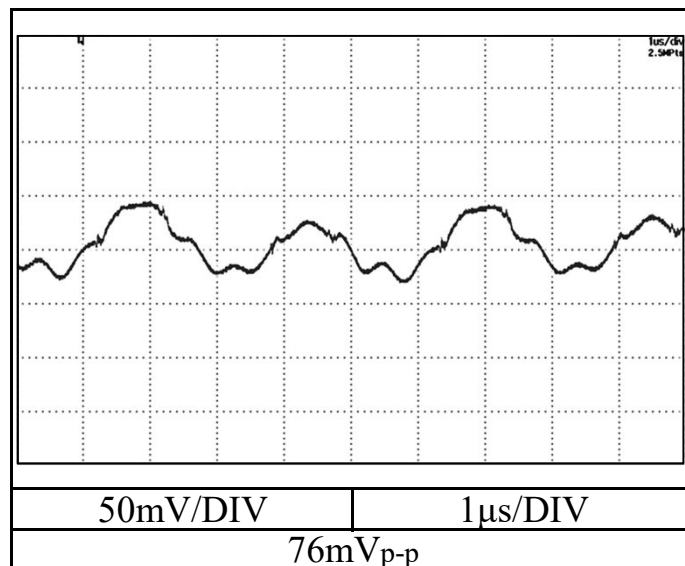


2.11 出力リップル、ノイズ波形
Output ripple and noise waveform

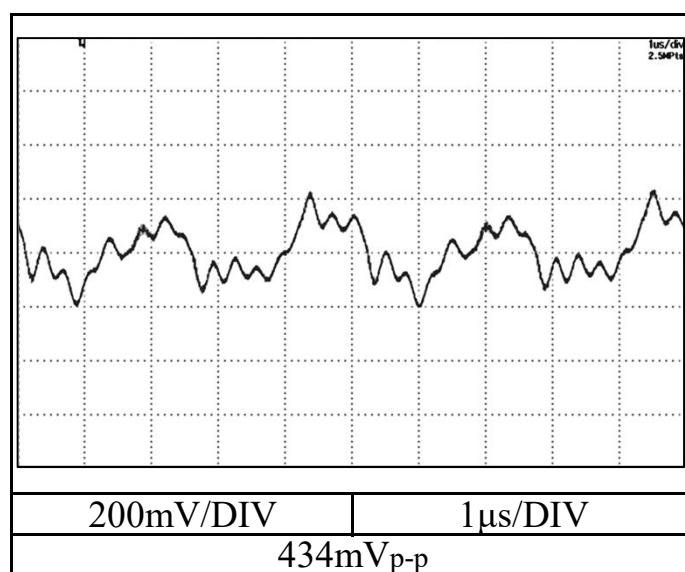
Conditions Vin : 280 VDC
Iout : 100 %
Tbp : 25 °C

28V

Normal mode



Normal + common mode

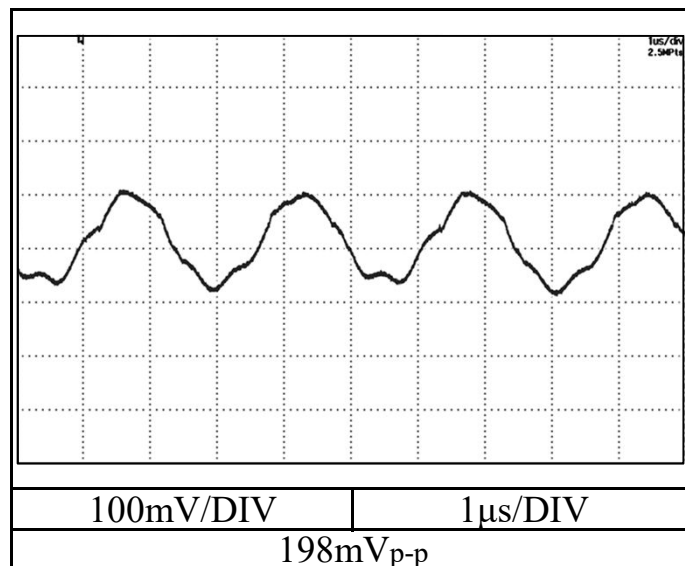


2.11 出力リップル、ノイズ波形
Output ripple and noise waveform

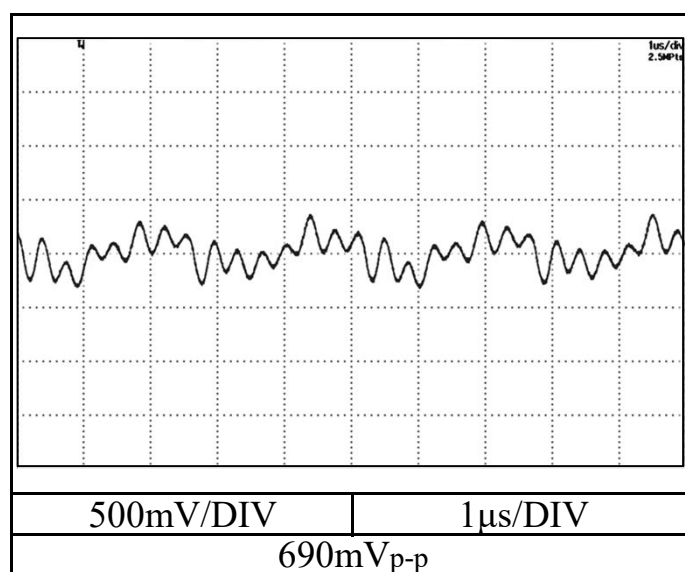
Conditions Vin : 280 VDC
Iout : 100 %
Tbp : 25 °C

48V

Normal mode



Normal + common mode



2.12 EMI特性

Electro-Magnetic Interference characteristics

(a) 雑音端子電圧(帰還ノイズ)

Conducted Emission

(1) VCCI class A 対応アプリケーションシステム

VCCI class A application system

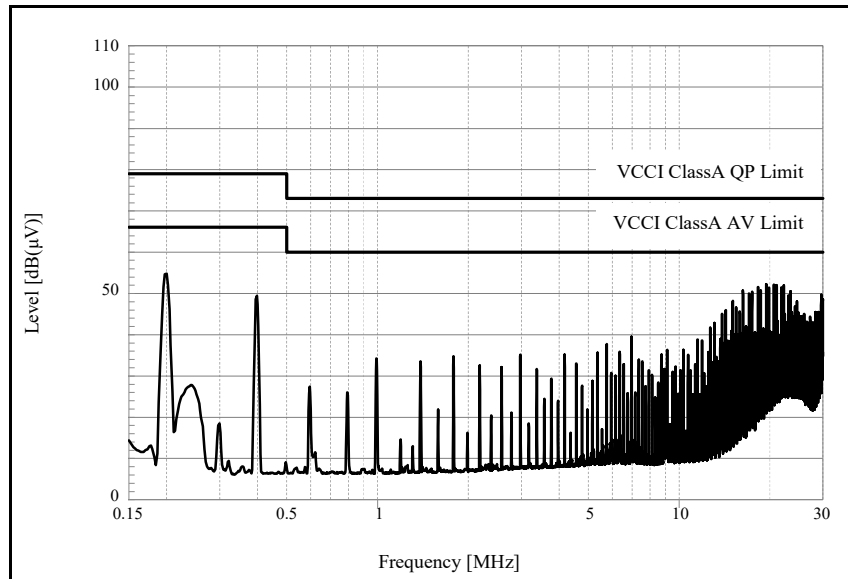
Conditions Vin : 280 VDC

Iout : 100 %

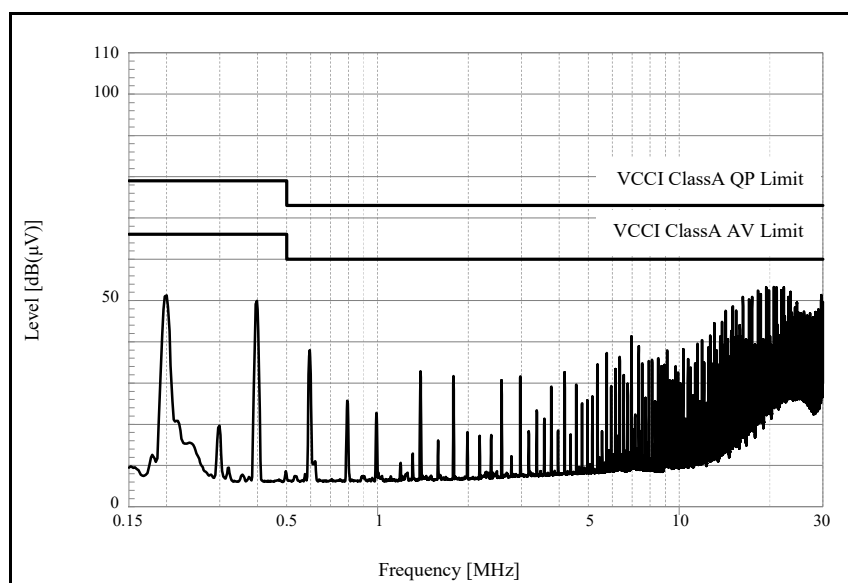
Tbp : 25 °C

12V

+Vin :



-Vin :



2.12 EMI特性

Electro-Magnetic Interference characteristics

(a) 雑音端子電圧(帰還ノイズ)

Conducted Emission

(1) VCCI class A 対応アプリケーションシステム

VCCI class A application system

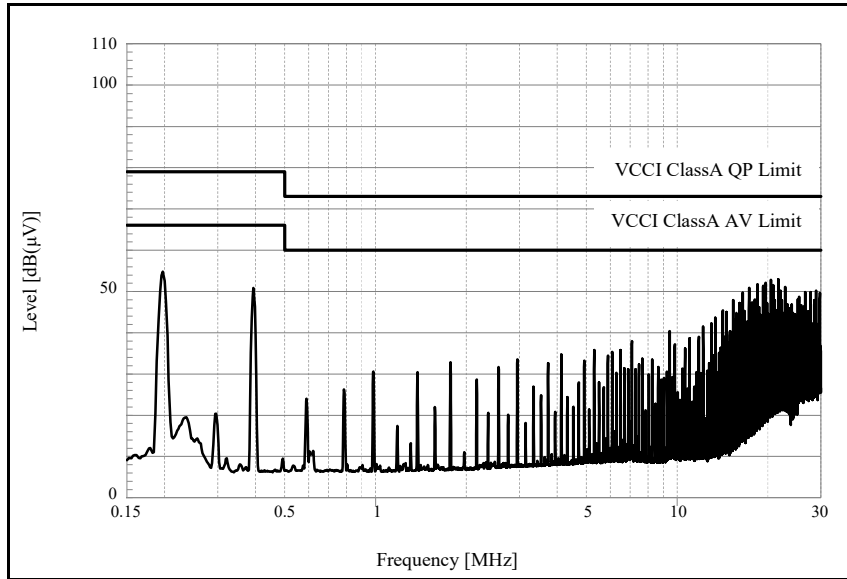
Conditions Vin : 280 VDC

Iout : 100 %

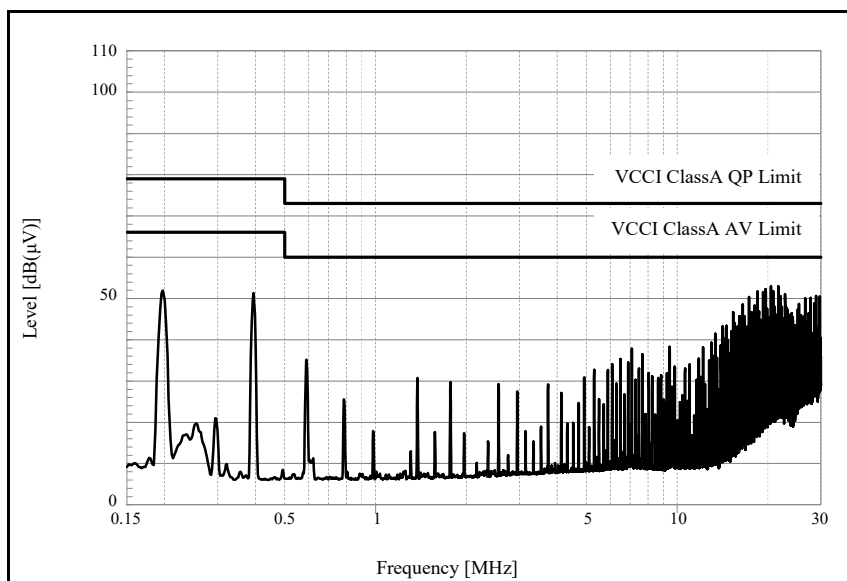
Tbp : 25 °C

24V

+Vin :



-Vin :



2.12 EMI特性

Electro-Magnetic Interference characteristics

(a) 雑音端子電圧(帰還ノイズ)

Conducted Emission

(1) VCCI class A 対応アプリケーションシステム

VCCI class A application system

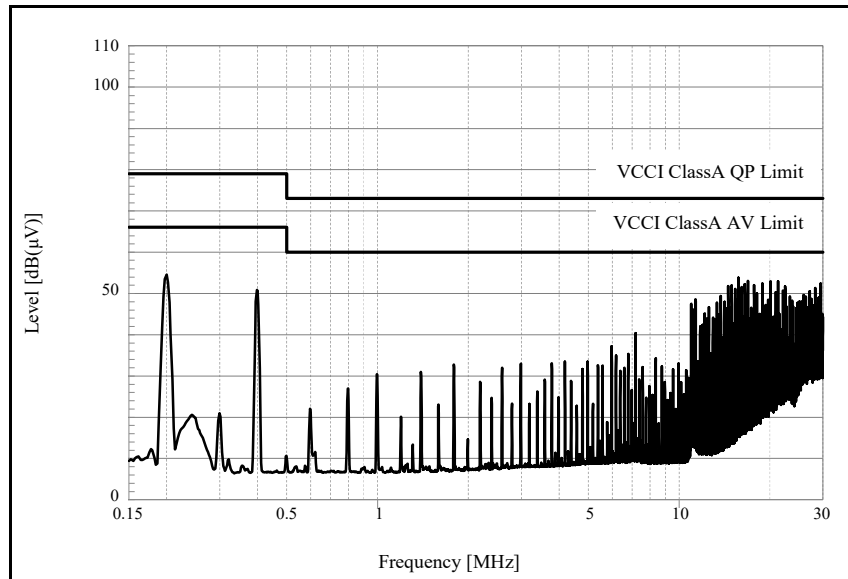
Conditions V_{in} : 280 VDC

I_{out} : 100 %

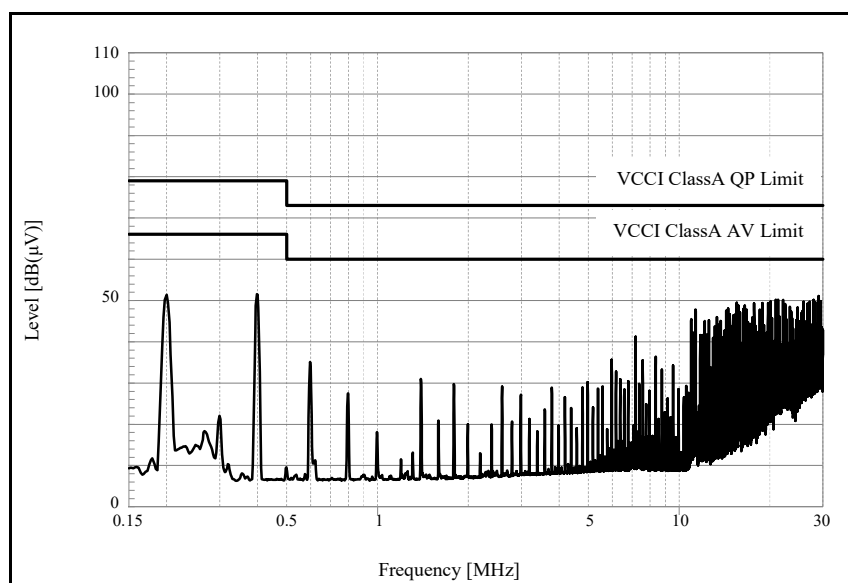
T_{bp} : 25 °C

28V

+ V_{in} :



- V_{in} :



2.12 EMI特性

Electro-Magnetic Interference characteristics

(a) 雑音端子電圧(帰還ノイズ)

Conducted Emission

(1) VCCI class A 対応アプリケーションシステム

VCCI class A application system

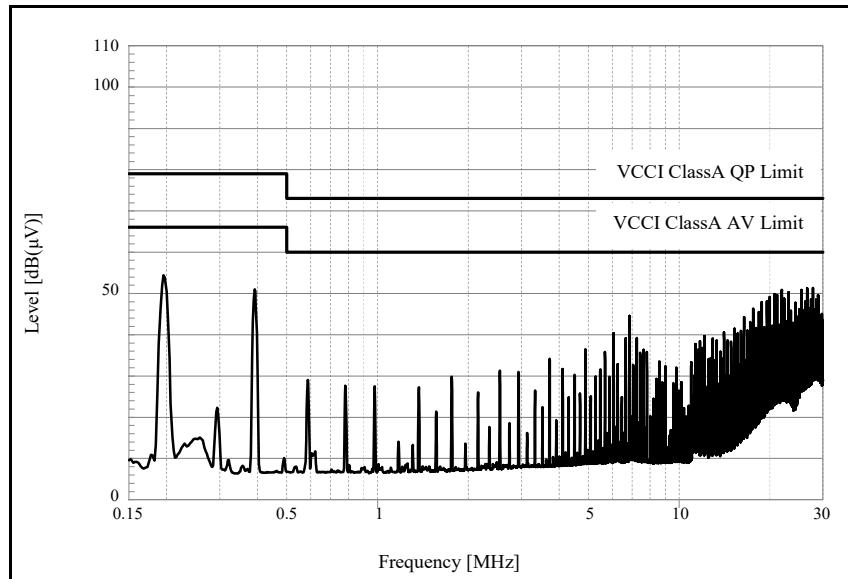
Conditions V_{in} : 280 VDC

I_{out} : 100 %

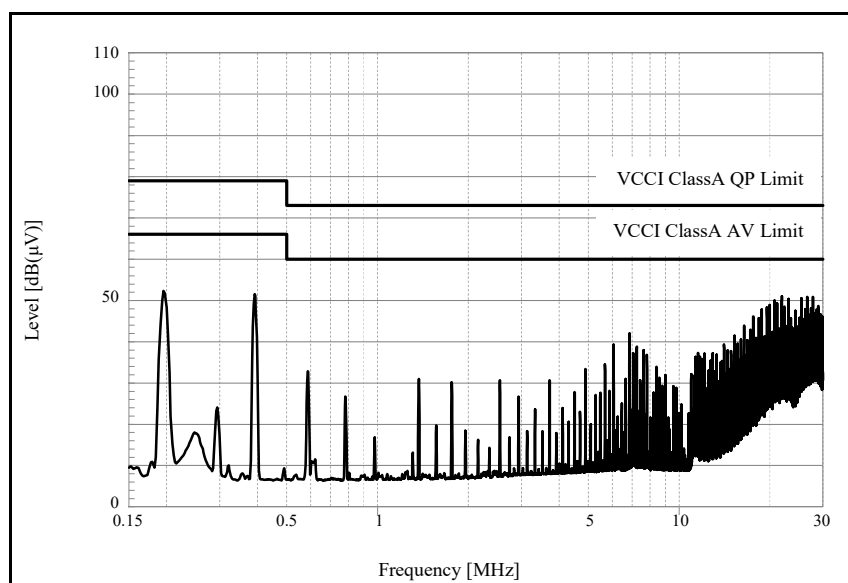
T_{bp} : 25 °C

48V

+ V_{in} :



- V_{in} :



2.12 EMI特性

Electro-Magnetic Interference characteristics

(b) 雑音電界強度 (輻射ノイズ)

Radiated Emission

(1) VCCI class A 対応アプリケーションシステム

VCCI class A application system

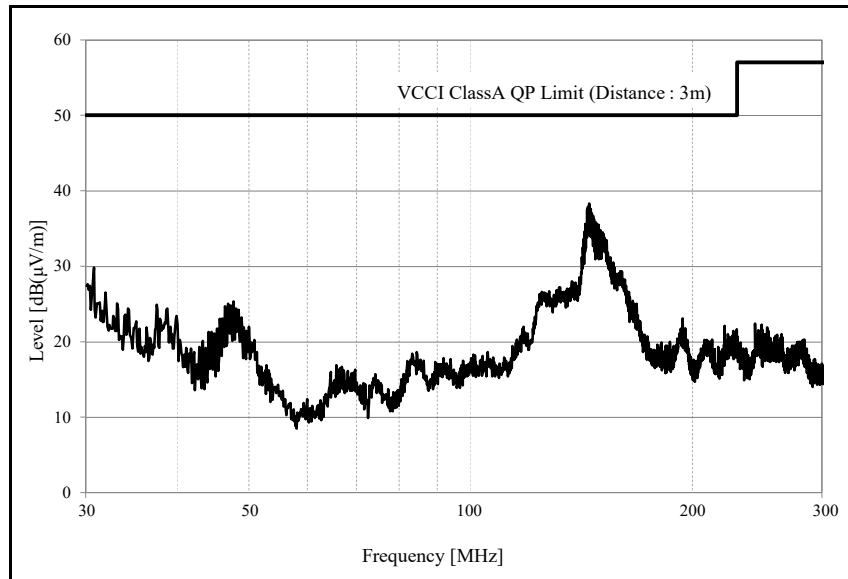
Conditions Vin : 280 VDC

Iout : 100 %

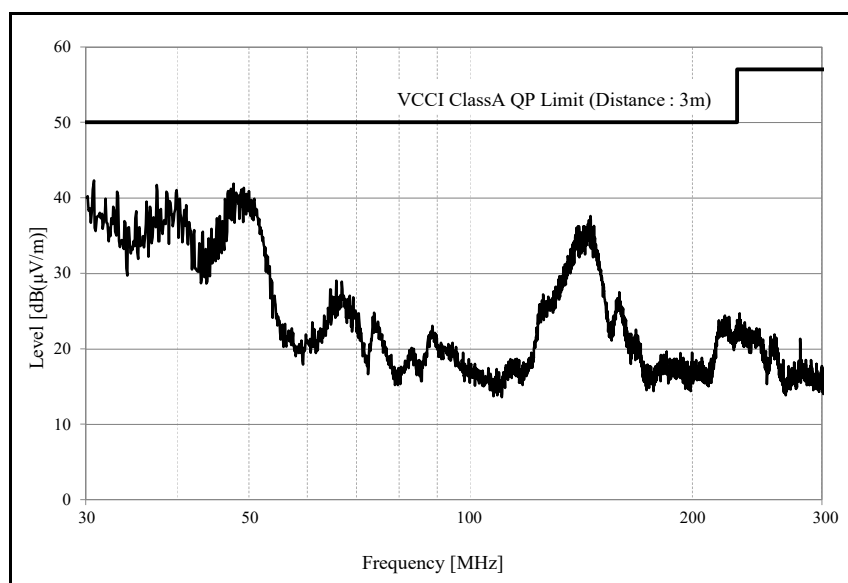
Tbp : 25 °C

12V

HORIZONTAL :



VERTICAL :



2.12 EMI特性

Electro-Magnetic Interference characteristics

(b) 雑音電界強度 (輻射ノイズ)

Radiated Emission

(1) VCCI class A 対応アプリケーションシステム

VCCI class A application system

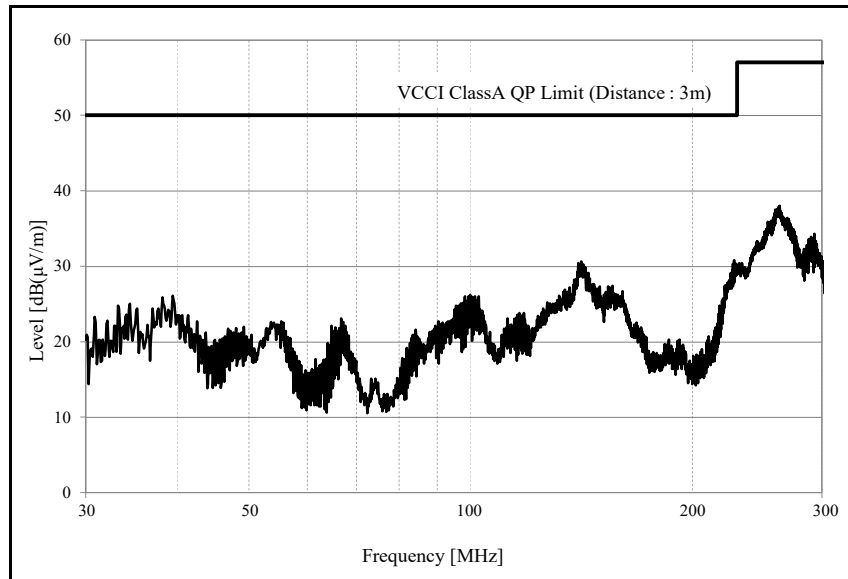
Conditions Vin : 280 VDC

Iout : 100 %

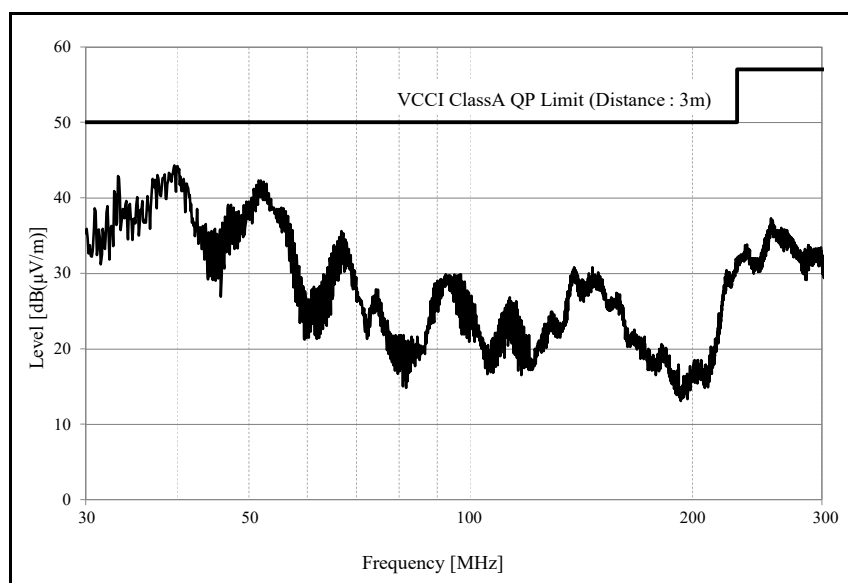
Tbp : 25 °C

24V

HORIZONTAL :



VERTICAL :



2.12 EMI特性

Electro-Magnetic Interference characteristics

(b) 雑音電界強度 (輻射ノイズ)

Radiated Emission

(1) VCCI class A 対応アプリケーションシステム

VCCI class A application system

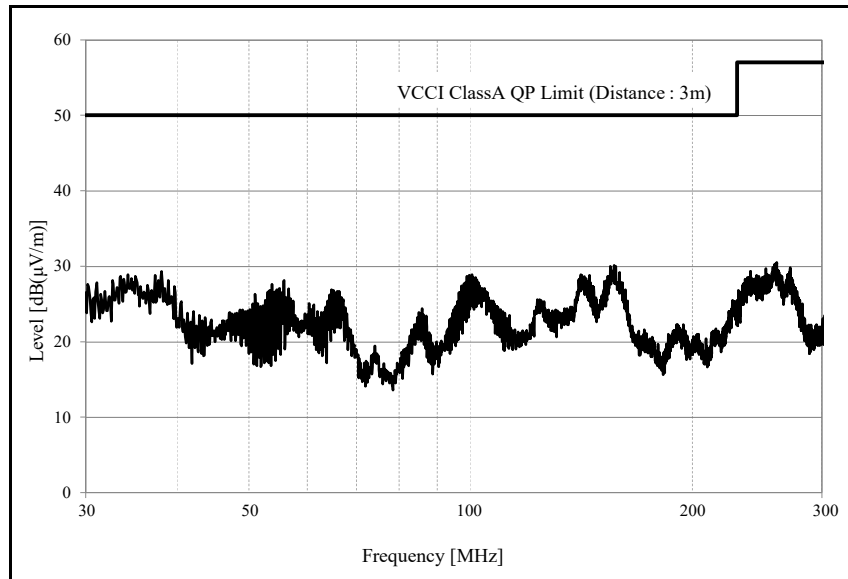
Conditions Vin : 280 VDC

Iout : 100 %

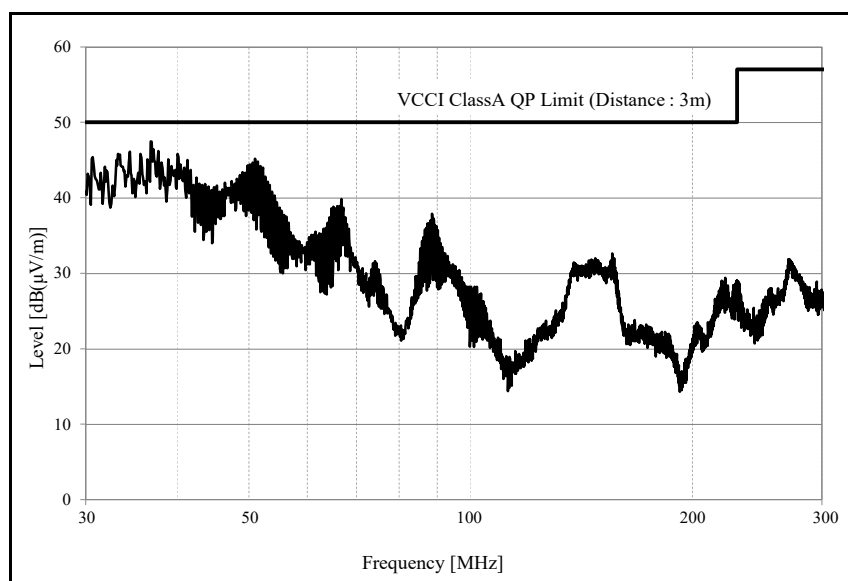
Tbp : 25 °C

28V

HORIZONTAL :



VERTICAL :



2.12 EMI特性

Electro-Magnetic Interference characteristics

(b) 雑音電界強度 (輻射ノイズ)

Radiated Emission

(1) VCCI class A 対応アプリケーションシステム

VCCI class A application system

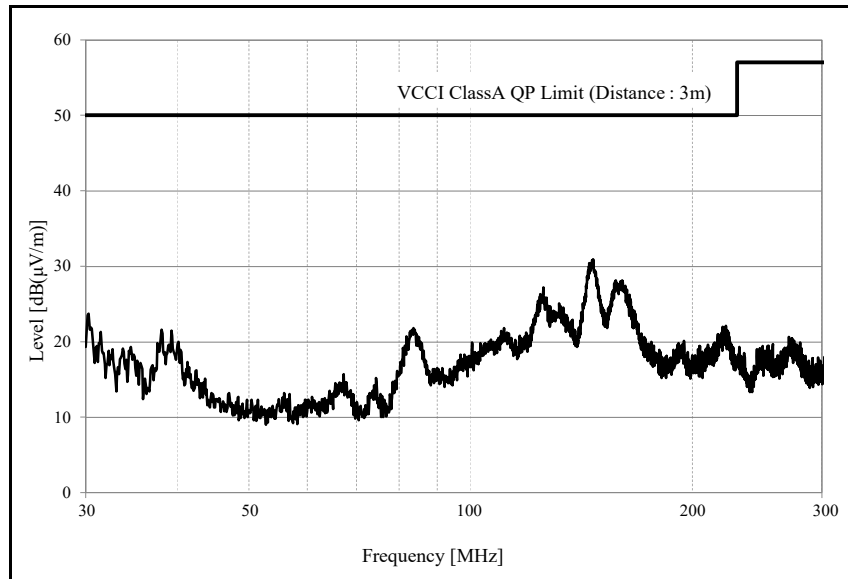
Conditions Vin : 280 VDC

Iout : 100 %

Tbp : 25 °C

48V

HORIZONTAL :



VERTICAL :

