

Evaluation report

MODEL: SK710

Revision: 1.0

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Test Report

Model Name: SK710

Ambient Temperature :25.1°C

Date: 0917-2018

Specification

		+12V
Output Regulation	A	12A
	A	0-12A
Ripple(P-P)	mv	2%(240mv)

1. DC Output Judgment

(Line Regulation Record Please Refer Appendix A ,)

		DC Output(VDC)				Line Regulation	Ripple(mv/Peak To Peak)			
DC Input (DCV)		12V	24V	28V	42V	12V-42V(mV)	12V	24V	28V	42V
+12V (0-12.5A)	DCV Max.	12.15	12.15	12.15	12.15	0 (Full Load)	120	90	150	90
	DCV Min.	12.14	12.14	4.835	12.14	0 (0 Load)	50	75	120	80
Load Regulation (mV)		10	10	10	10					

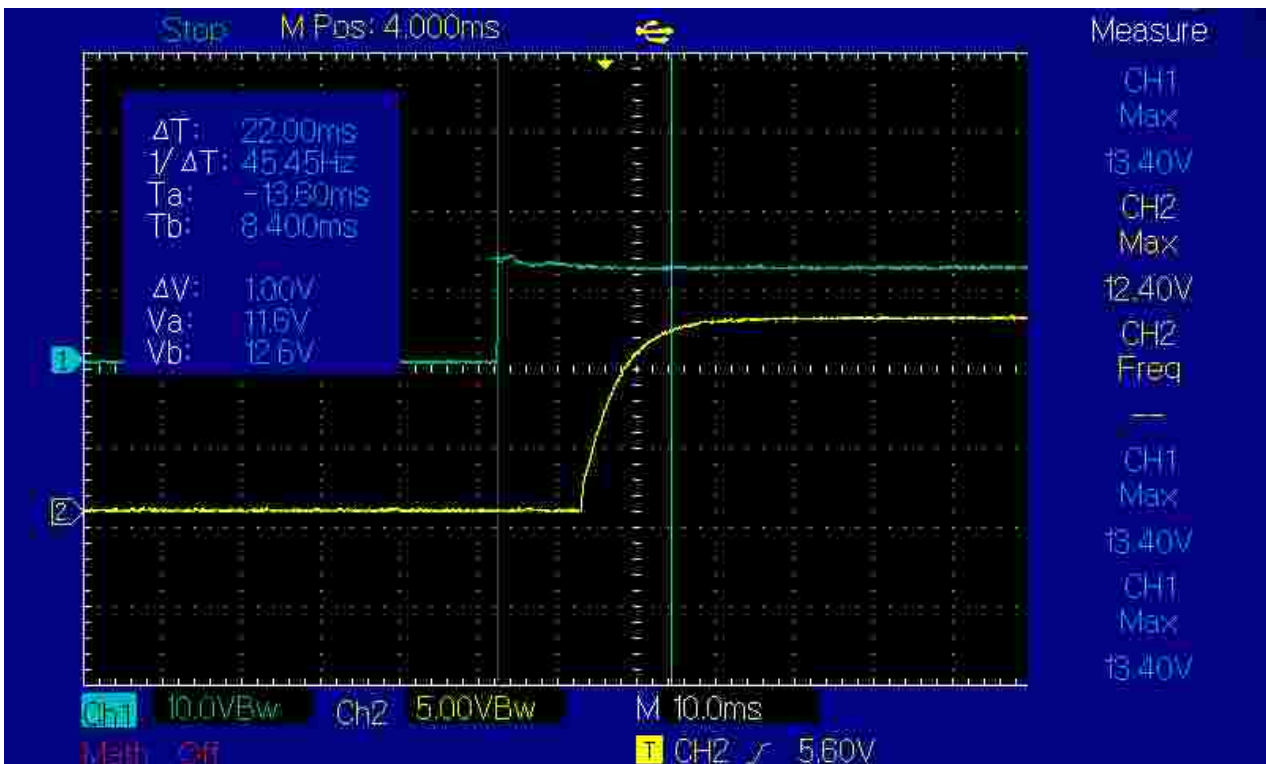
2. Efficiency

Input Voltage	12VDC	24VDC	28VDC	42VDC	12VDC	24VDC	28VDC	42VDC
Load	83%	100%	100%	100%	50%	50%	50%	50%
+12V	Iout	10A	12A	12A	12A	6A	6A	6A
	Vout	12.15V	12.15V	12.15V	12.15V	12.14V	12.14V	12.15V
Total Output Power	121.5W	145.8W	145.8W	145.8W	72.84W	72.84W	72.9W	72.9W
Input DC Current	11.87A	7.53A	5.77A	3.64A	6.86A	3.32A	2.93A	1.99A
Input Power	142.44W	180.72W	161.56W	152.88W	82.32W	79.68W	82.04W	83.58W
Efficiency	85.3%	80.68%	90.25%	95.4%	88.48%	91.42%	88.86%	87.22%
Input Voltage	12VDC	24VDC	28VDC	42VDC	12VDC	24VDC	28VDC	42VDC
Load	25%	25%	25%	25%	0%	0%	0%	0%
+12V	Iout	3A	3A	3A	3A	0A	0A	0A
	Vout	12.14V	12.15V	12.15V	12.15V	12.15V	12.15V	12.15V
Total Output Power	36.42W	36.45W	36.45W	36.45W	3.40W	5.28W	6.16W	8.40W
Input DC Current	3.39A	1.73A	1.51A	1.09A	0.28A	0.22A	0.22A	0.20A
Input Power	40.68W	41.52W	42.28W	45.78W	W	W	W	W
Efficiency	89.53%	87.79%	86.21%	79.62%	%	%	%	%

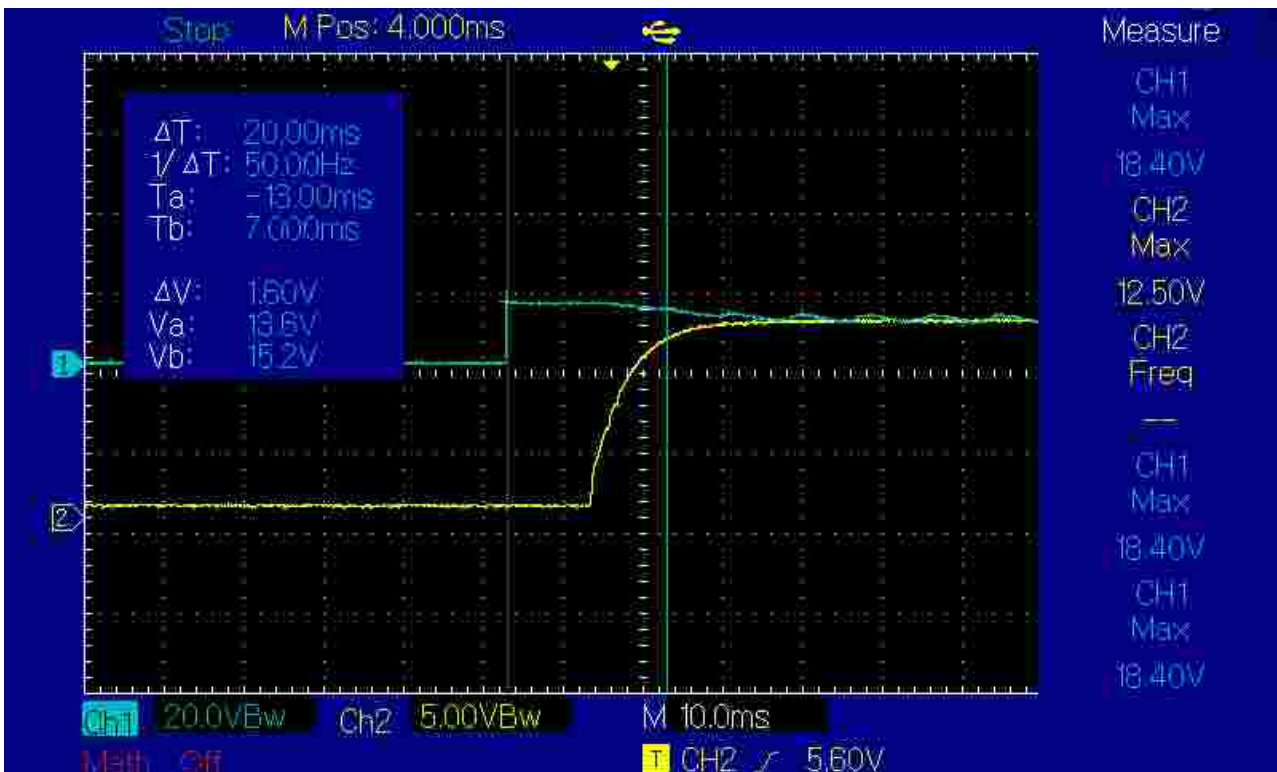
Remark: +12V 12A(Full Load 100%) hiccup

3. RISE TIME

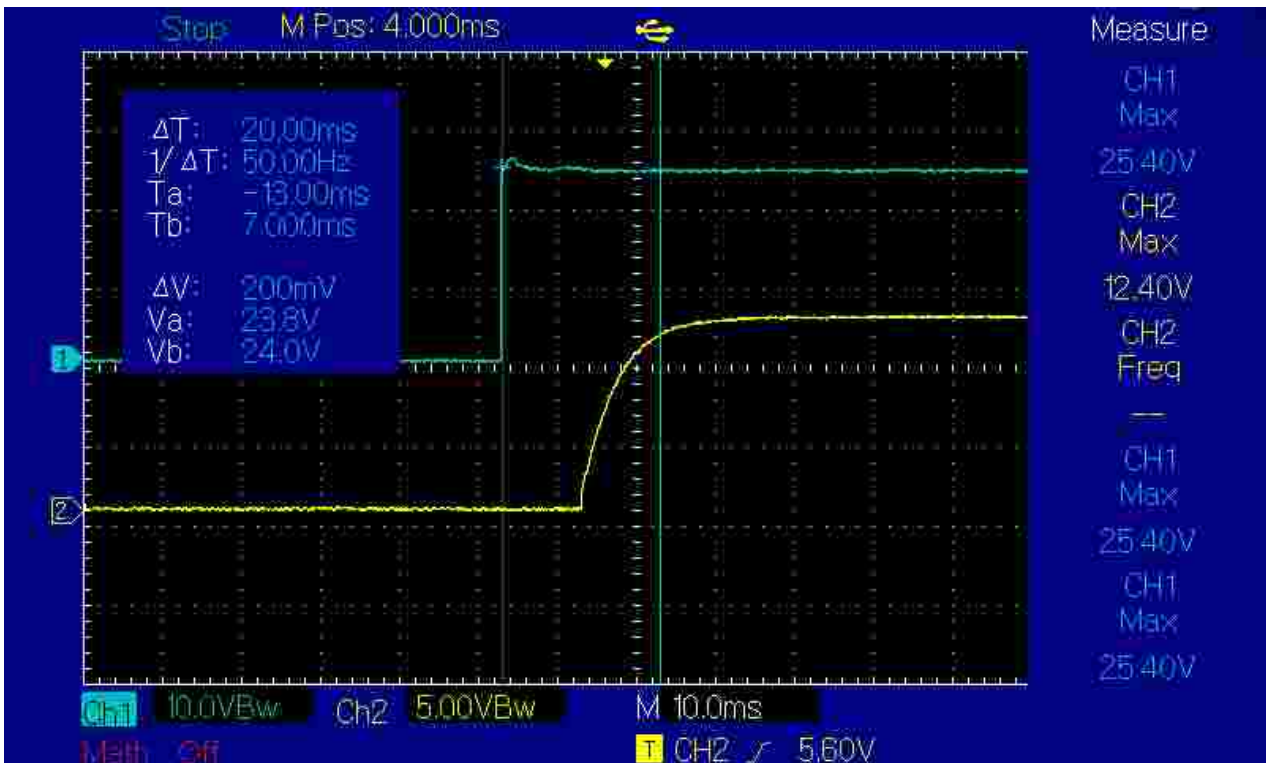
a. 12VDC 0% Load



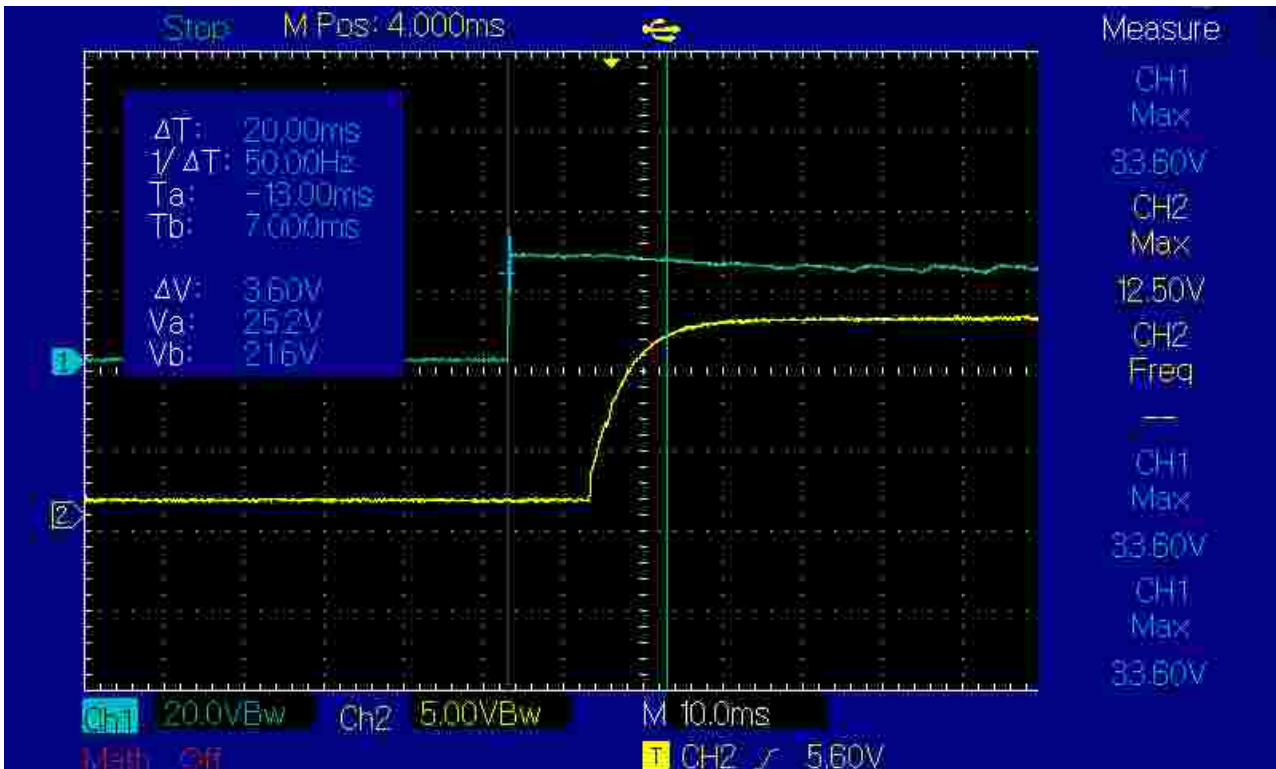
b. 12VDC 83% Load(10A)



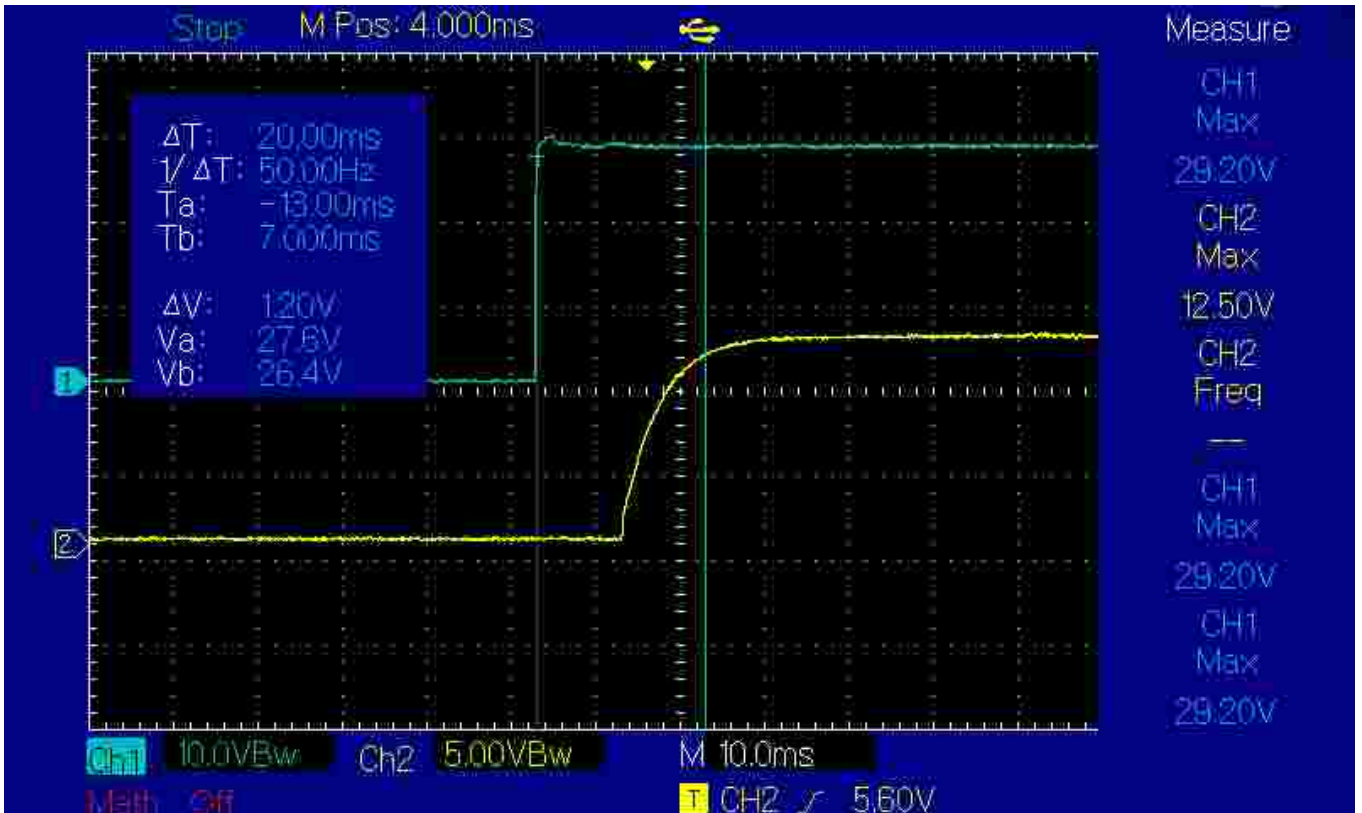
c. 24VDC 0% Load



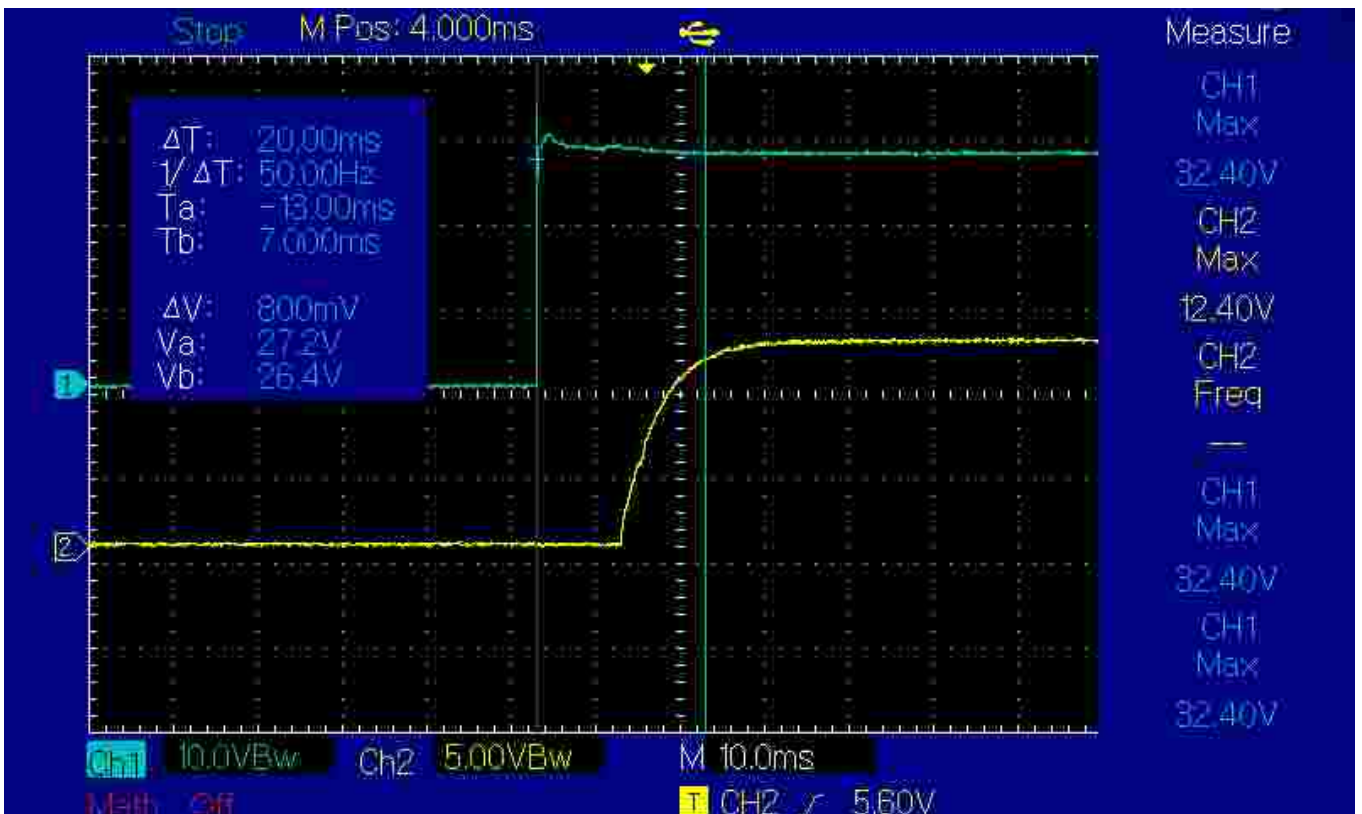
d. 24VDC 100% Load



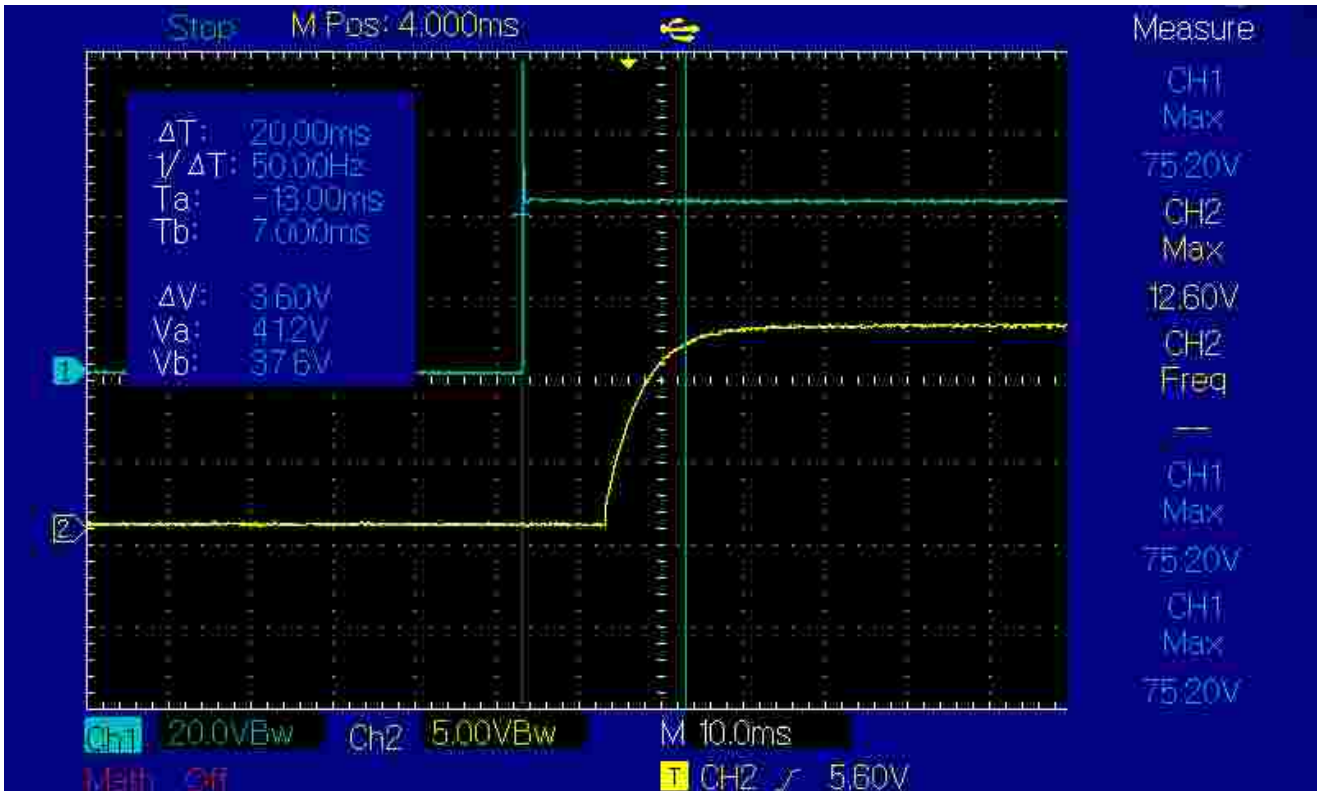
e. 28VDC 0% Load



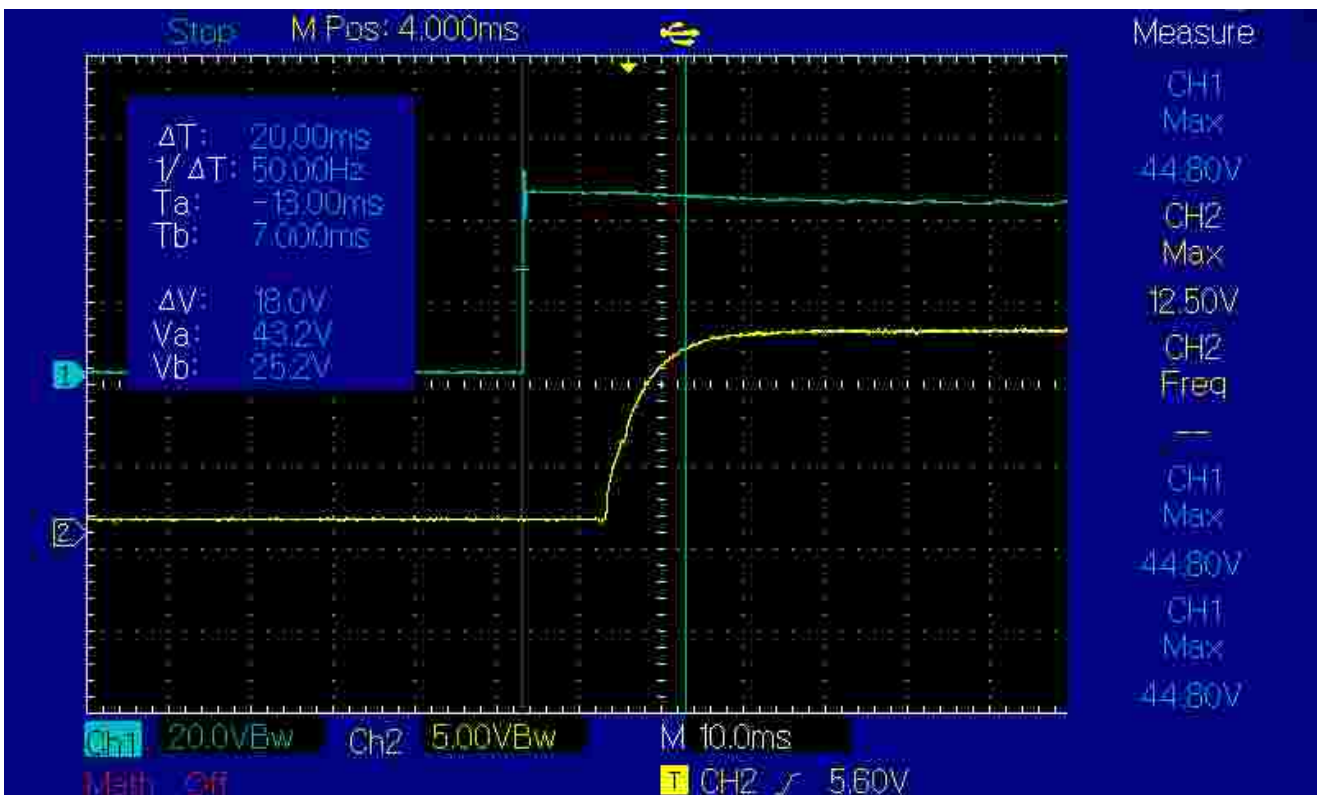
f. 28VDC 100% Load



g. 42VDC 0% Load

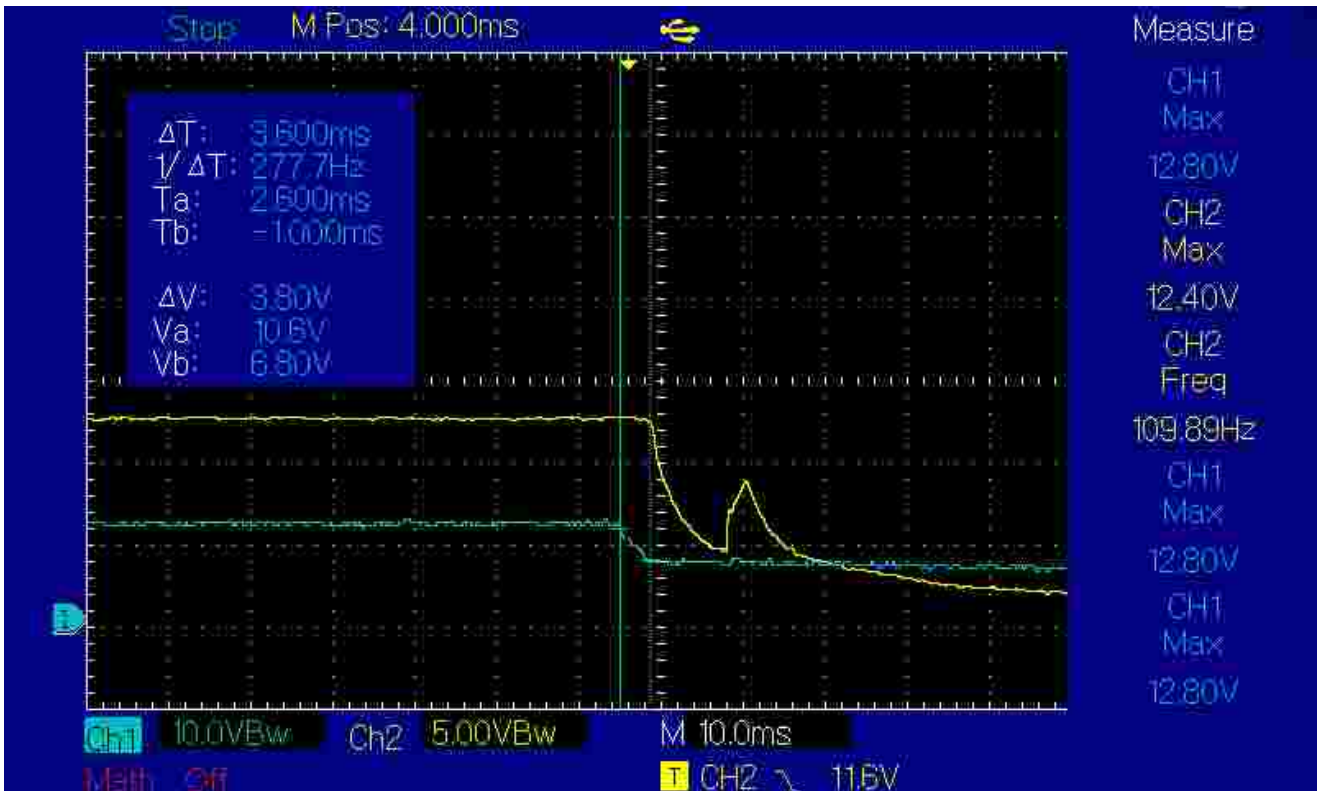


h. 42VDC 100% Load

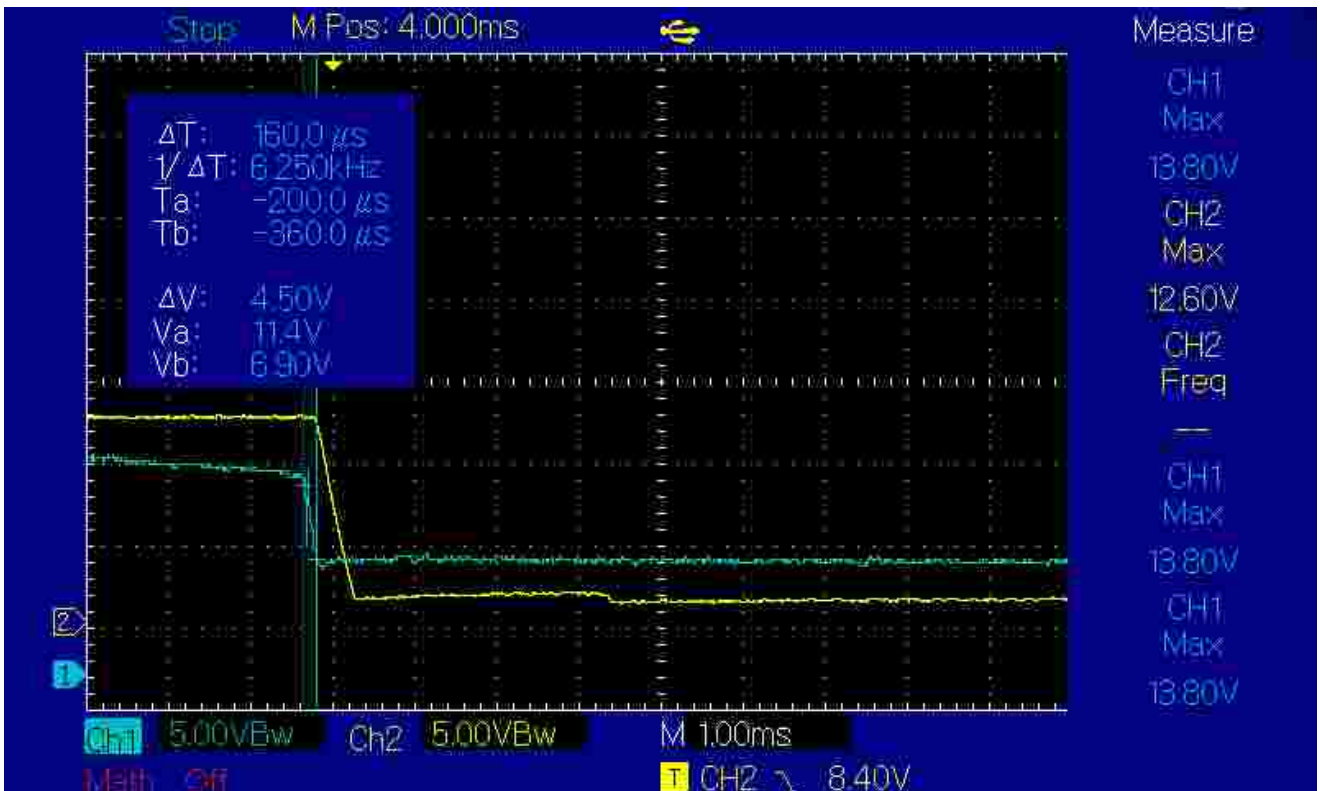


4. Hold up time

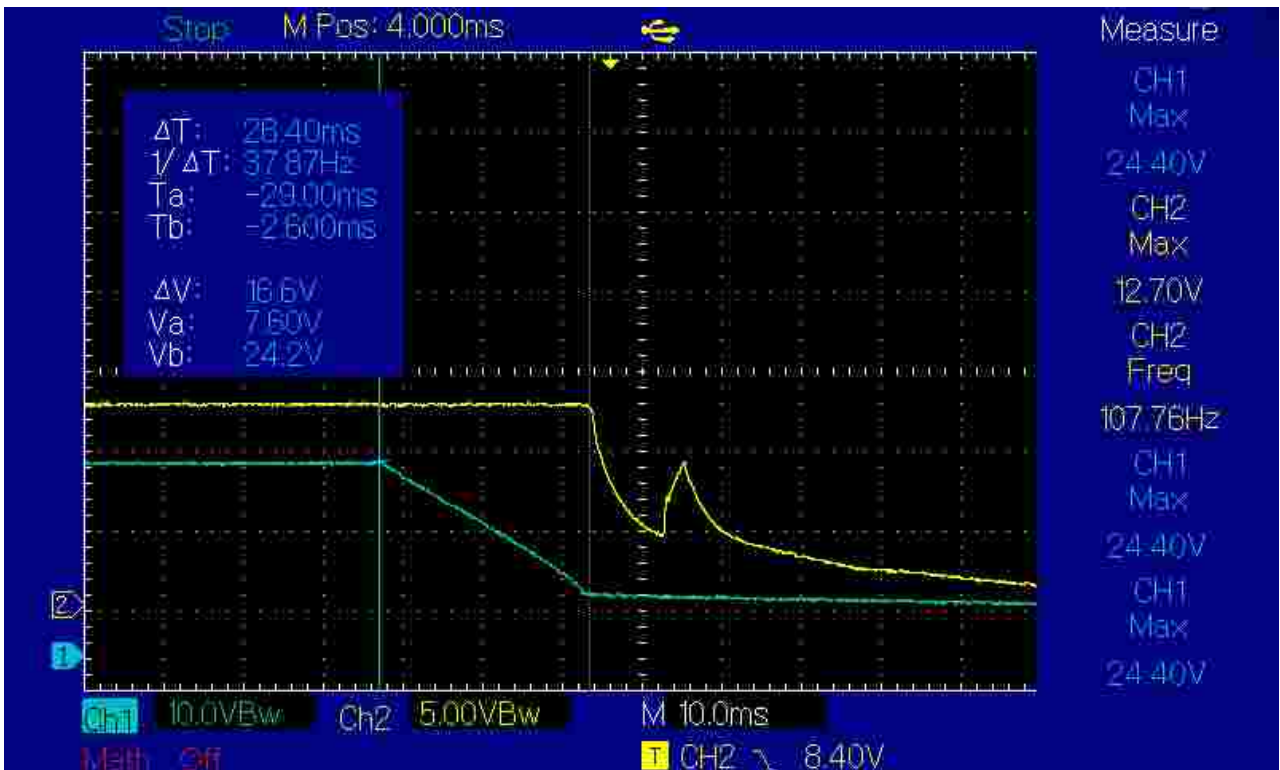
a. 12VDC 0% Load



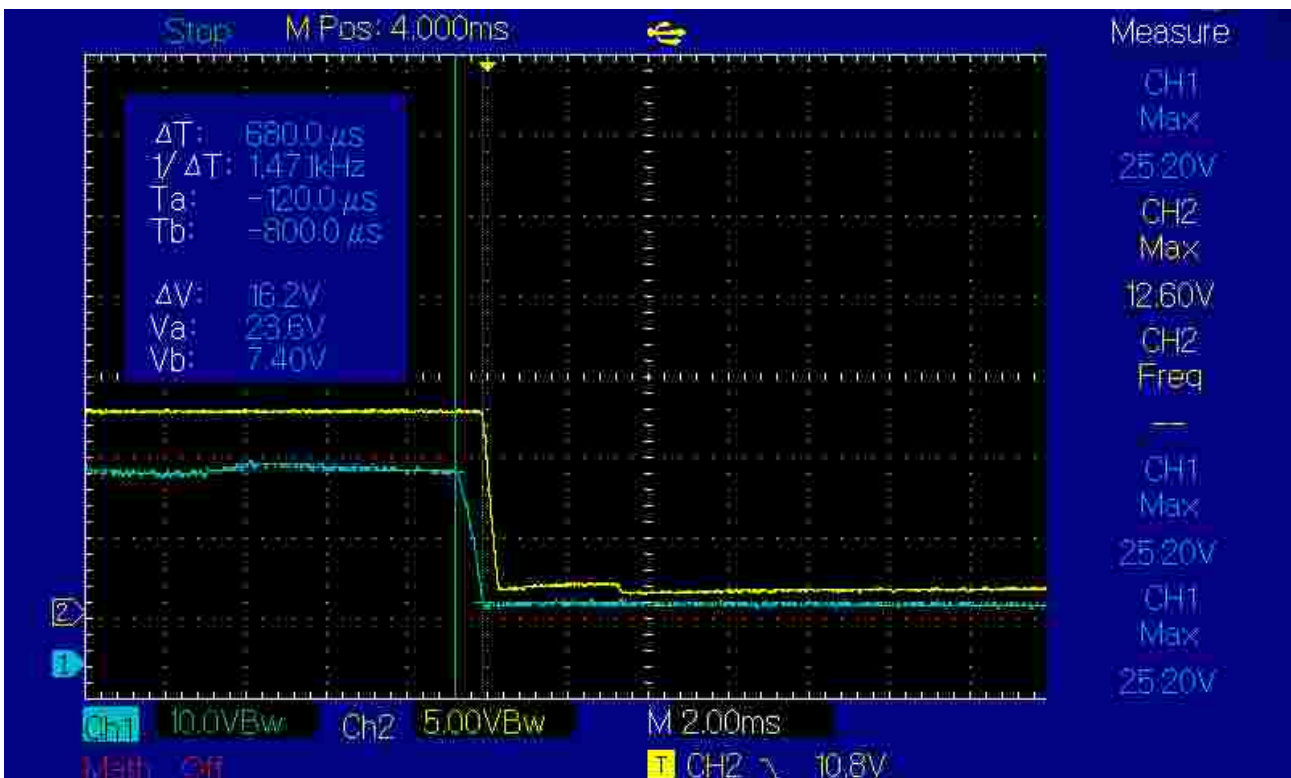
b. 12VDC 100% Load



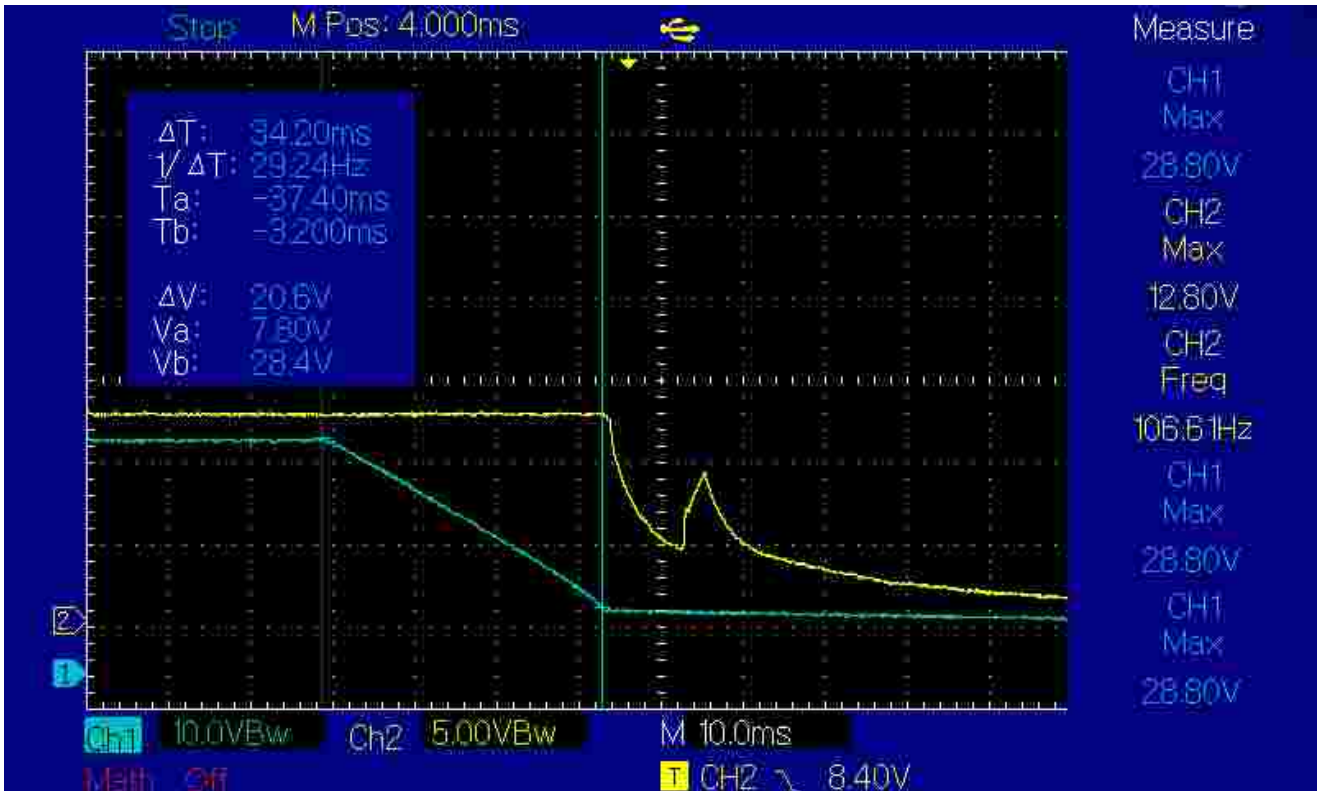
c. 24VDC 0% Load



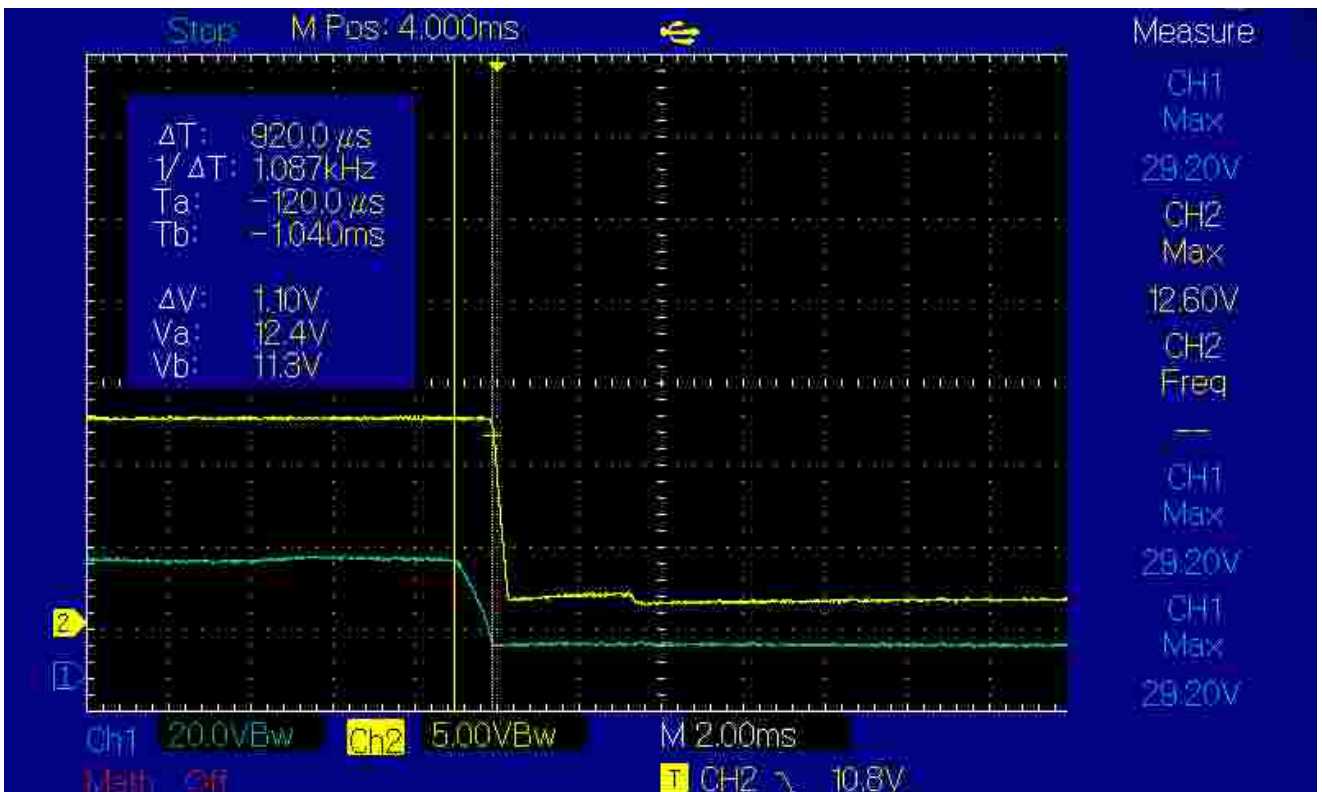
d. 24VDC 100% Load



e. 28VDC 0% Load



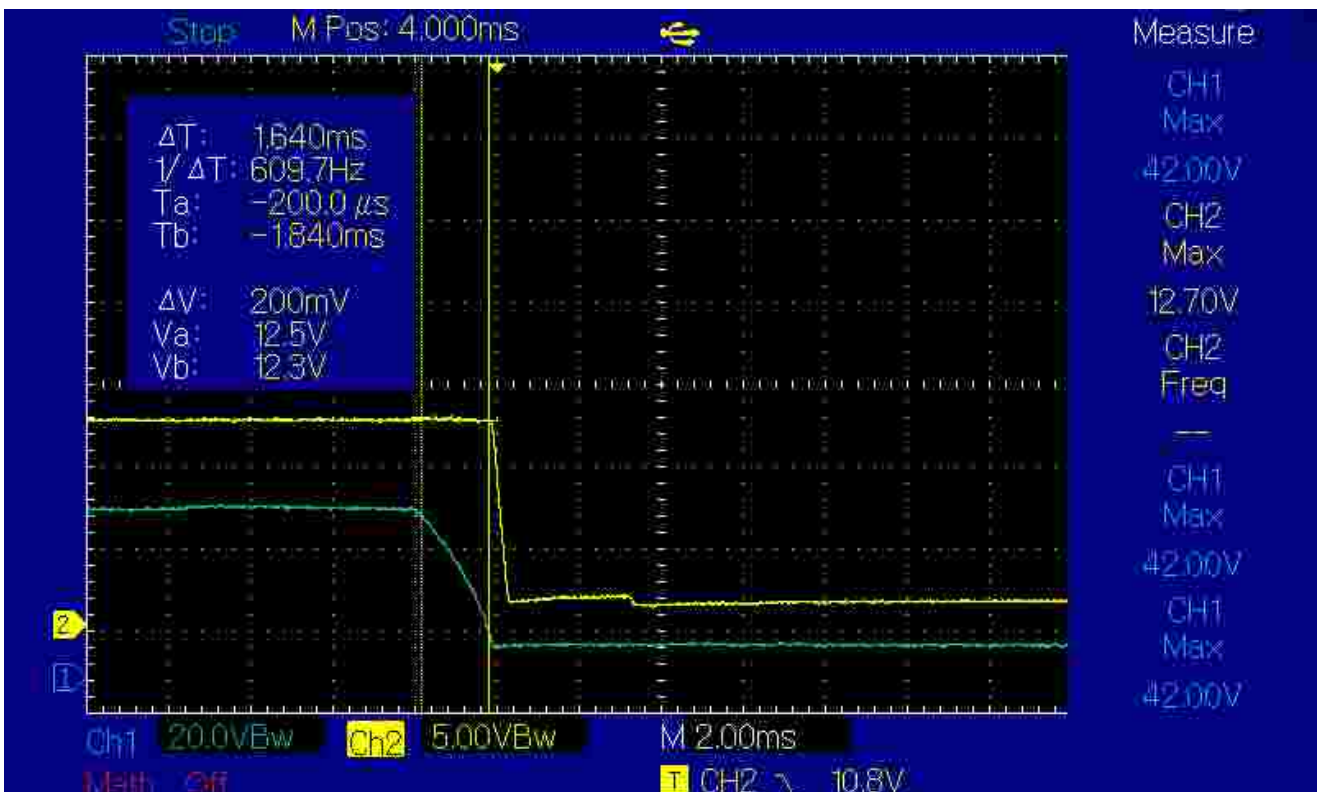
f. 28VDC 100% Load



g. 42VDC 0% Load



h. 42VDC 100% Load



5. Inrush Current

Input Voltage	Inrush Current(Max.)
12V	21A
24V	65A
32V	73A
42V	74A

Appendix

A. Line Regulation

輸入(Input)		輸出(Output)	
電壓 Vin	電流 Iin	電壓 Vout	電流 Iout
12V	0.28A	12.15V	0A
12V	1.27A	12.15V	1A
12V	3.39A	12.14V	3A
12V	6.86A	12.14V	6A
12V	11.87A	12.15V	10A
12V	HICCUP		12A
15V	0.25A	12.16V	0A
15V	1.04A	12.16V	1A
15V	2.71A	12.15V	3A
15V	5.40A	12.14V	6A
15V	10.82A	12.15V	12A
24V	0.22A	12.15V	0A
24V	0.70A	12.15V	1A
24V	1.73A	12.15V	3A
24V	3.32A	12.14V	6A
24V	7.53A	12.15V	12A
28V	0.22A	12.15V	0A
28V	0.64A	12.15V	1A
28V	1.51A	12.15V	3A
28V	2.93A	12.15V	6A
28V	5.77A	12.15V	12A
36V	0.21A	12.15V	0A
36V	0.53A	12.15V	1A
36V	1.22A	12.15V	3A
36V	2.30A	12.15V	6A
36V	4.41A	12.15V	12A
42V	0.20A	12.15V	0A
42V	0.50A	12.15V	1A
42V	1.09A	12.15V	3A
42V	1.99A	12.15V	6A
42V	3.64A	12.15V	12A