



陕西亚成微电子有限责任公司

方案调试与验证报告

AE&FAE Department

Version:1.0

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Test Item:

1:Load Regulation;

2:Line Regulation;

3:Output Ripple Voltage;

4:Efficiency;

5: OCP;

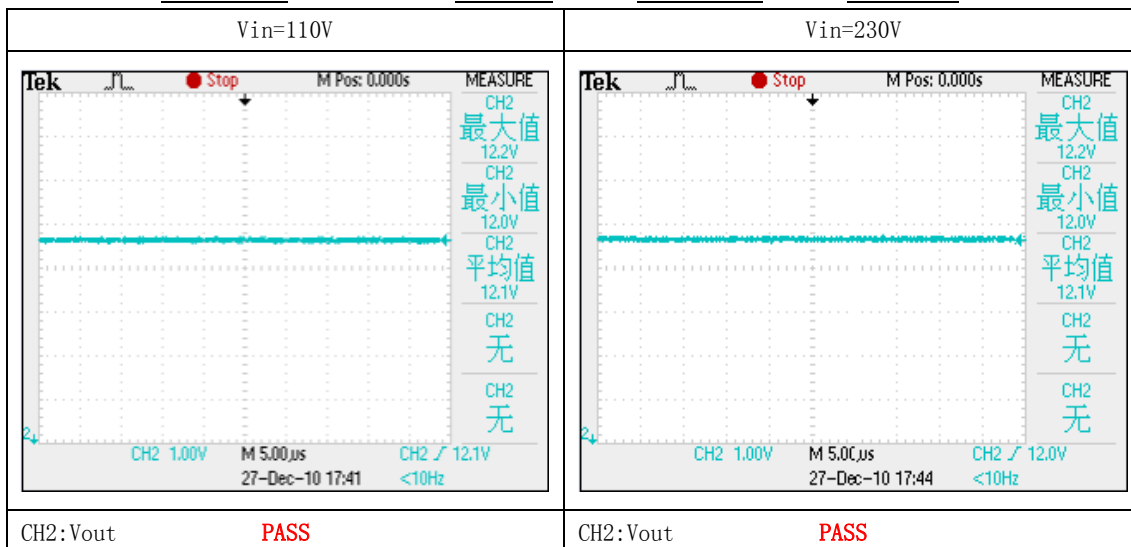
6: OSP;

7:Diode Drop Voltage;

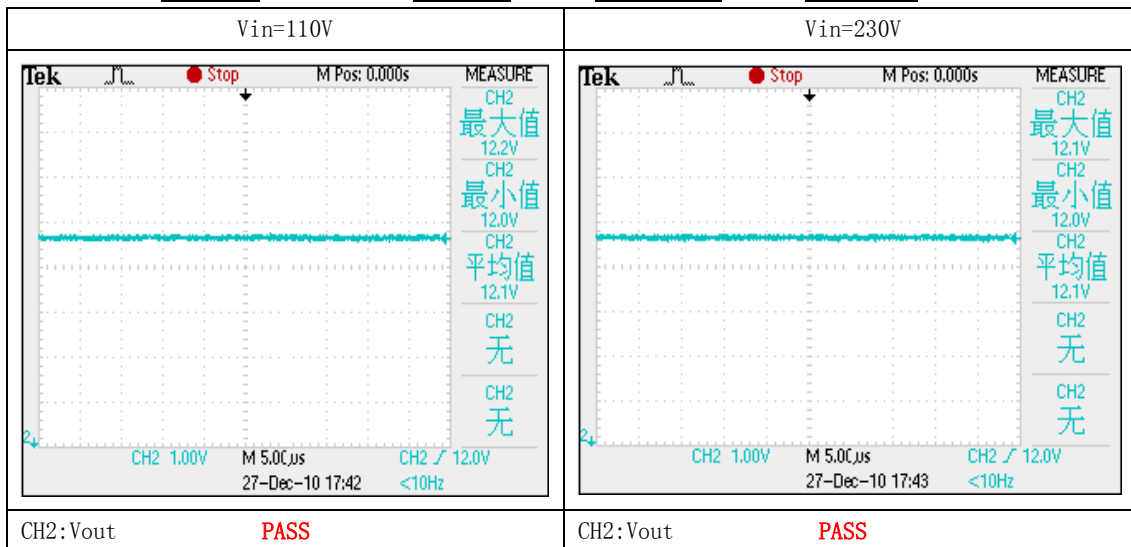
8:Temperature;

1: Load Regulation;

Vout(max)= 12.6V; Vout(min)= 11.4V; Vout= 12.00V ;Iload= 0.00A ;



Vout(max)= 12.6V; Vout(min)= 11.4V; Vout= 12.00V ;Iload= 1.00A ;



2: Line Regulation:

Test Condition: Vin=110V-265V, Iload=0A

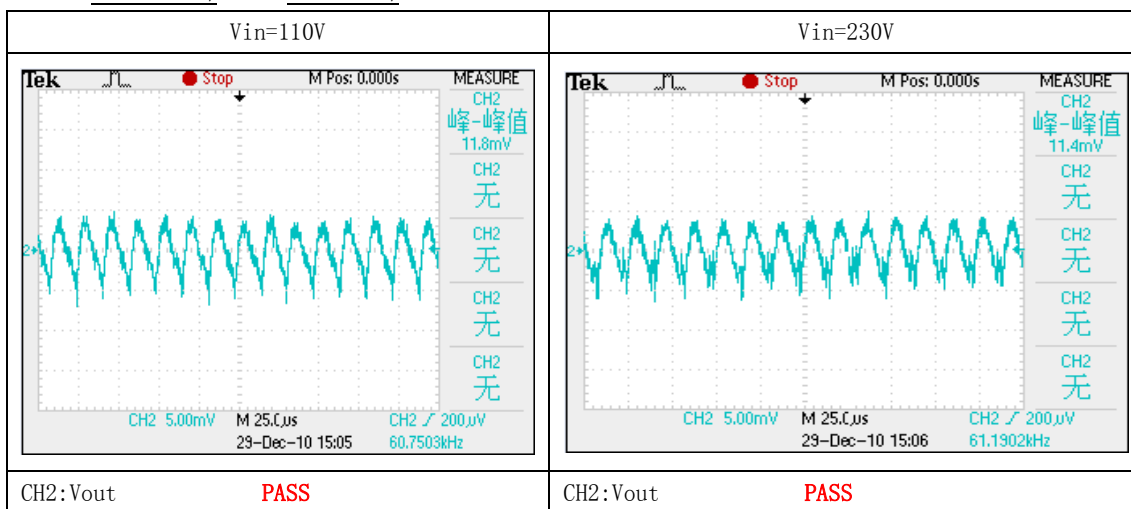
Vin(V)	110	185	220	235	265
Vout(V)	12.1	12.1	12.1	12.1	12.1

Test Condition: Vin=110V-265V, Iload=1A

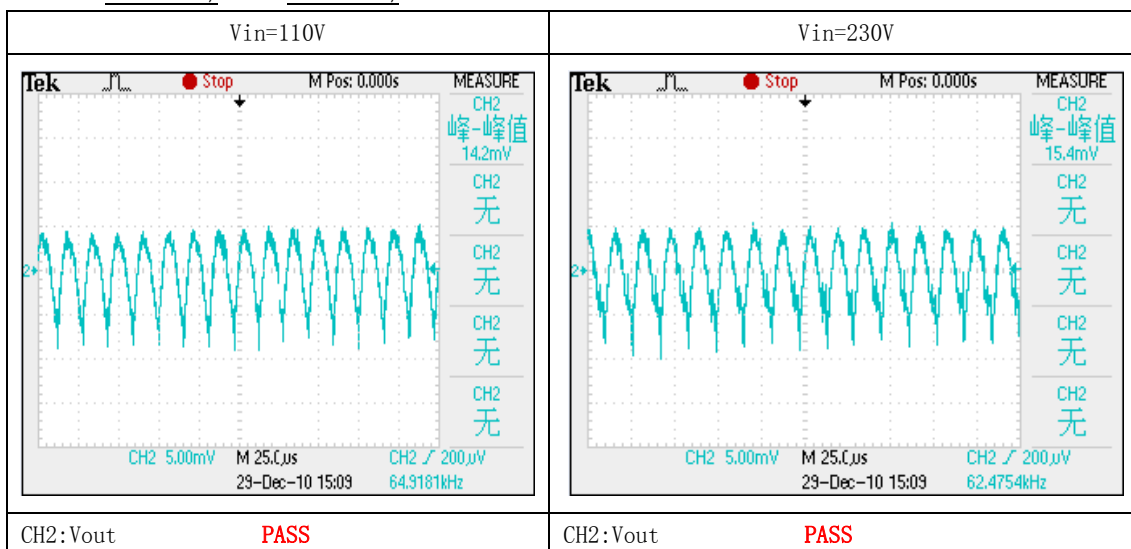
Vin(V)	110	185	220	235	265
Vout(V)	12.1	12.1	12.1	12.1	12.1

3:Output Ripple Voltage:

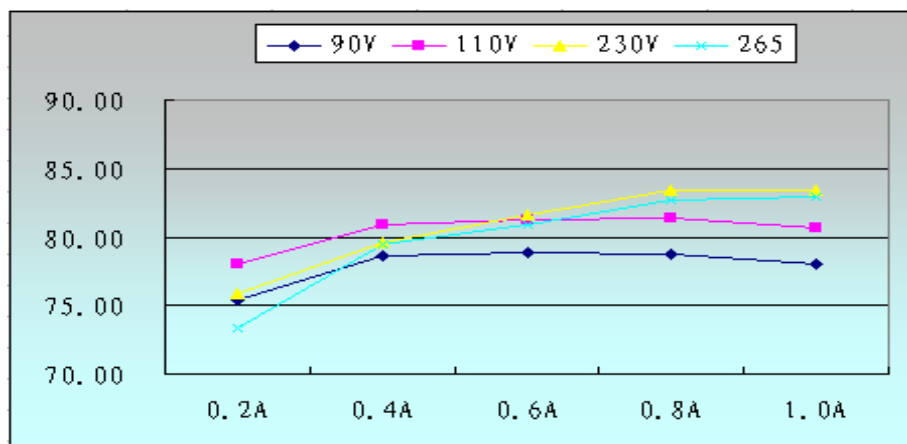
Vout= 12.00V ;Iout= 0.50A ;



Vout= 12.00V ;Iout= 1.00A ;



4:Efficiency:



5:OCP

Vin(V)	90	115	185	220
OCP(A)	1.5	1.5	1.8	1.8
Result	PASS	PASS	PASS	PASS

Notice: $I_{ocp} = (1.3 - 1.8) I_{out(max)}$;

6:OSP

Test Way: 短路输出端开机或者先开机后短路，检测 IC 在这种情况下是否具有自我保护功能，当负载恢复正常后 IC 可以恢复正常工作，输出正常；同时检测此时的输入功率的大小，此时功率越小越好。

Vin(V)	90V	115V	230V	265V
Pin(W) (Iout=1.0A)	16.1	15.6	15.3	15.6
Pshort (W)	0.00-0.72	0.00-0.92	0.33-1.78	0.61-1.87
Result	PASS	PASS	PASS	PASS

7:Dioe drop Voltage: (Iload=Iout(max));

Vin(V)	90V	115V	230V	265V
Vdrop(V)	32.8	39.2	61.6	68.8
Voc(V)	284	304	448	504
Result	PASS	PASS	PASS	PASS

Notice: Vdrop 为输出级整流管 (SR360) 两端压降最大差值。

Voc 为开关管集电极对地最大压降。

8:Temperature

Test Condition: $T_a=25^{\circ}\text{C}$, Test Time: 30min;

