

GR8762A Demo Board Test Report

Product No. GR8762A

Test by David

Check by Jason

Date 2011-04-15

FAE Department

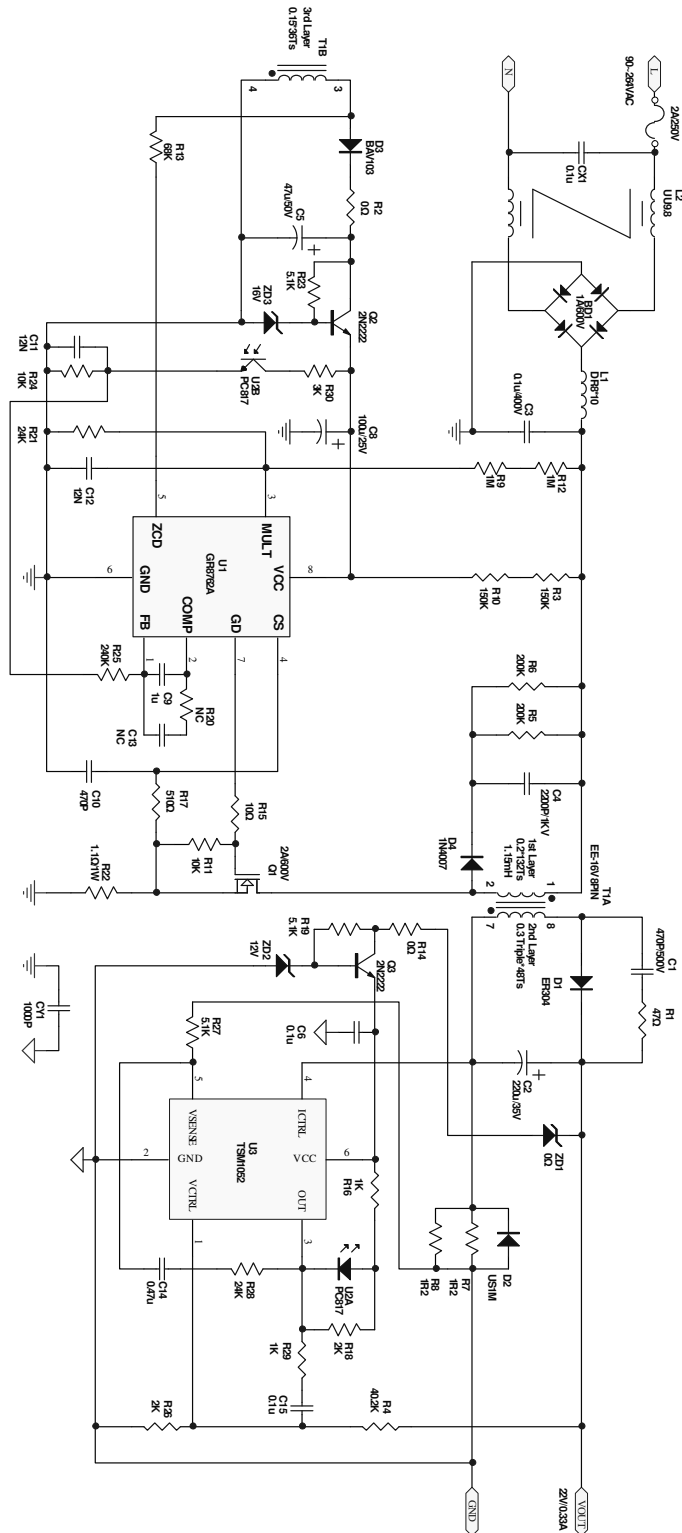
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Reversion Record

<i>Version</i>	<i>Date</i>	<i>Description</i>
1.0	2011.04.15	GR8762A Single stage for LED drive

System Circuitry



Test Facility

- Four Channel Digital Real-Time Oscilloscope (LeCroy WJ324);
- Dual Display Multimeter (Fluke189);
- System Power Supply (Chroma, 61502);
- Laboratory DC Power Supply (GW, GPC-3060D) ;
- Electronic load (Chroma,63108);
- Power meter (Chroma,66201).

Test Note

- 1.Package: SOP-8.
- 2.Standby power is tested after power input stable.
- 3.Input power (when output is shorted) is tested in 5 mins and take down the max.

Basic Specification of system

Parameter	Specification
Input Voltage	90Vac~264Vac
Input Frequency	50Hz~60Hz
Output Voltage and Current	21V/0.33A
Output Power	7.0W

Electrical Table

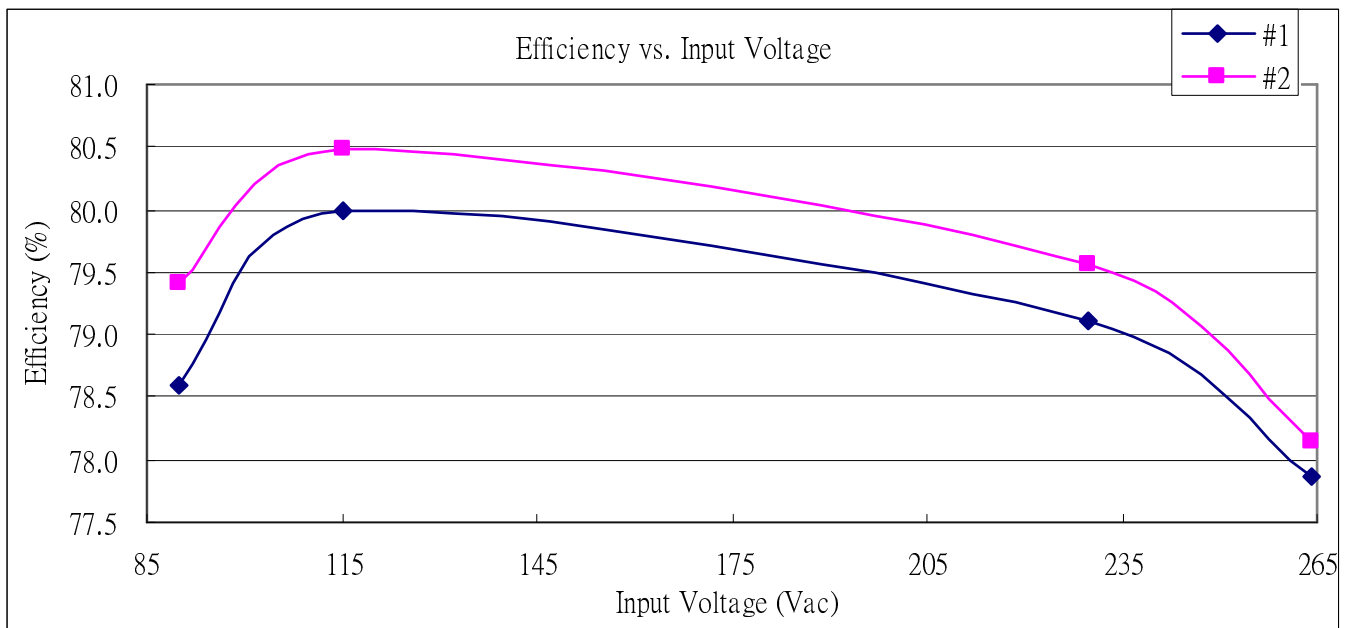
1. Efficiency

Test Condition:

1. Input voltage= 115V, 230V
2. Load= Full Load

Test data and results are as follows:

	115Vac/60Hz	230Vac/50Hz
#1	79.99%	79.10%
#2	80.48%	79.57%



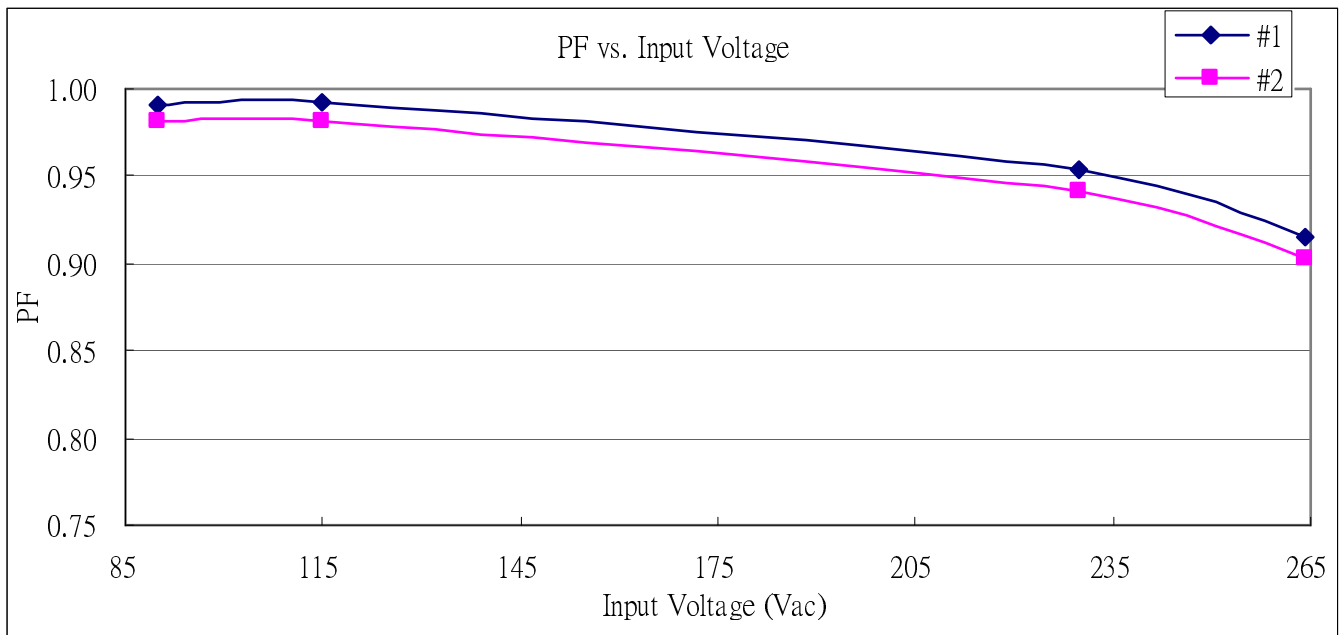
2. Power Factor

Test Condition:

1. Input voltage= 90V, 115V, 230V, 264V
2. Load= Full Load

Test data and results are as follows:

	90Vac/60Hz	115Vac/60Hz	230Vac/50Hz	264Vac/50Hz
#1	0.991	0.993	0.953	0.915
#2	0.981	0.981	0.941	0.903

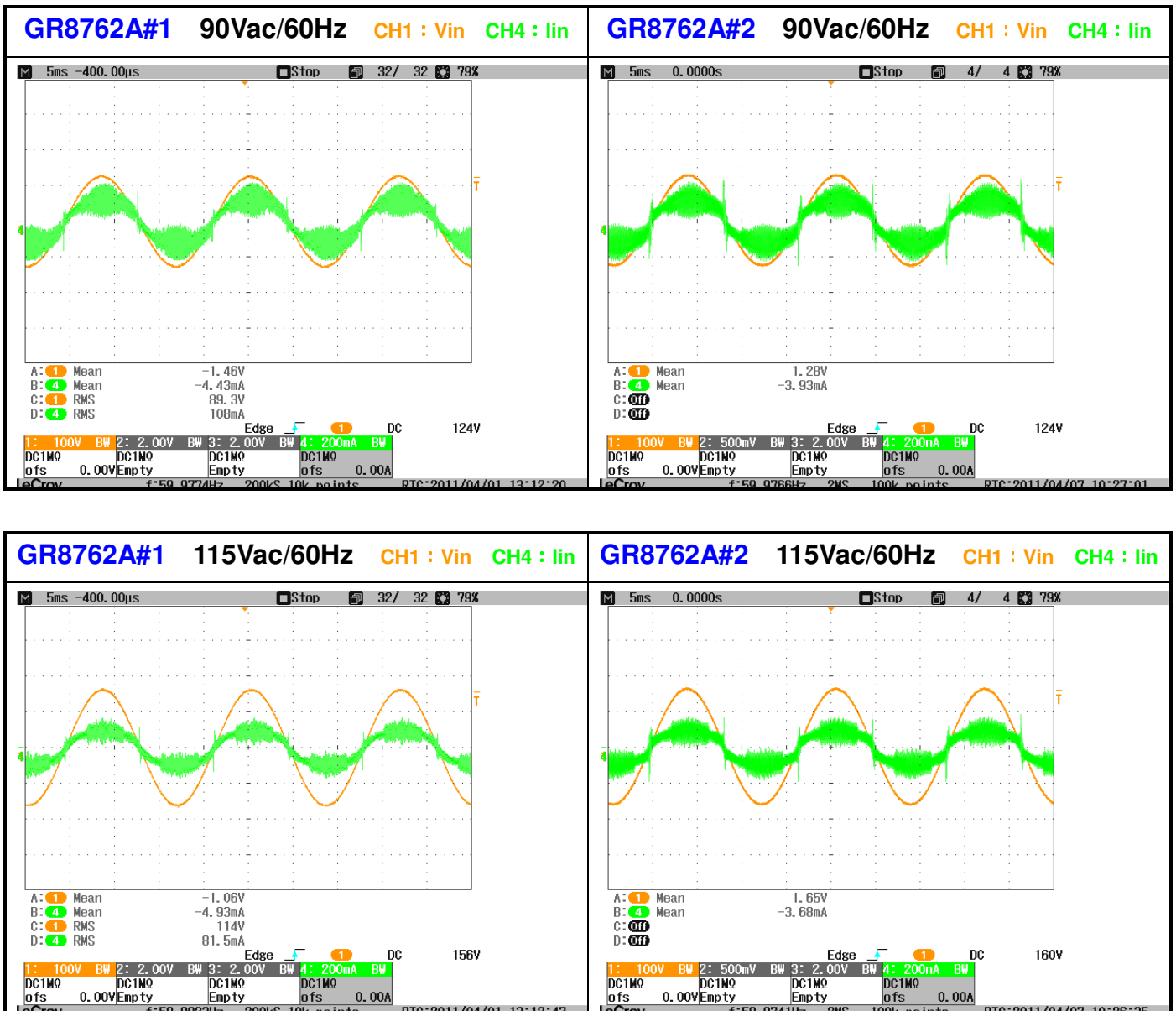


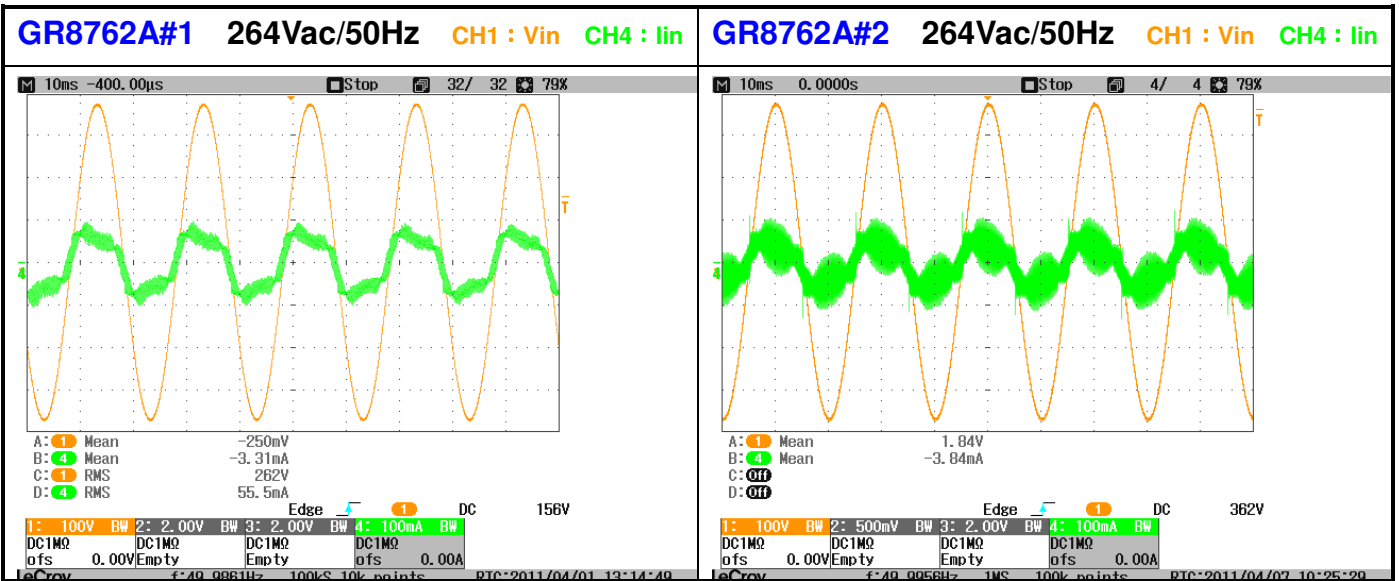
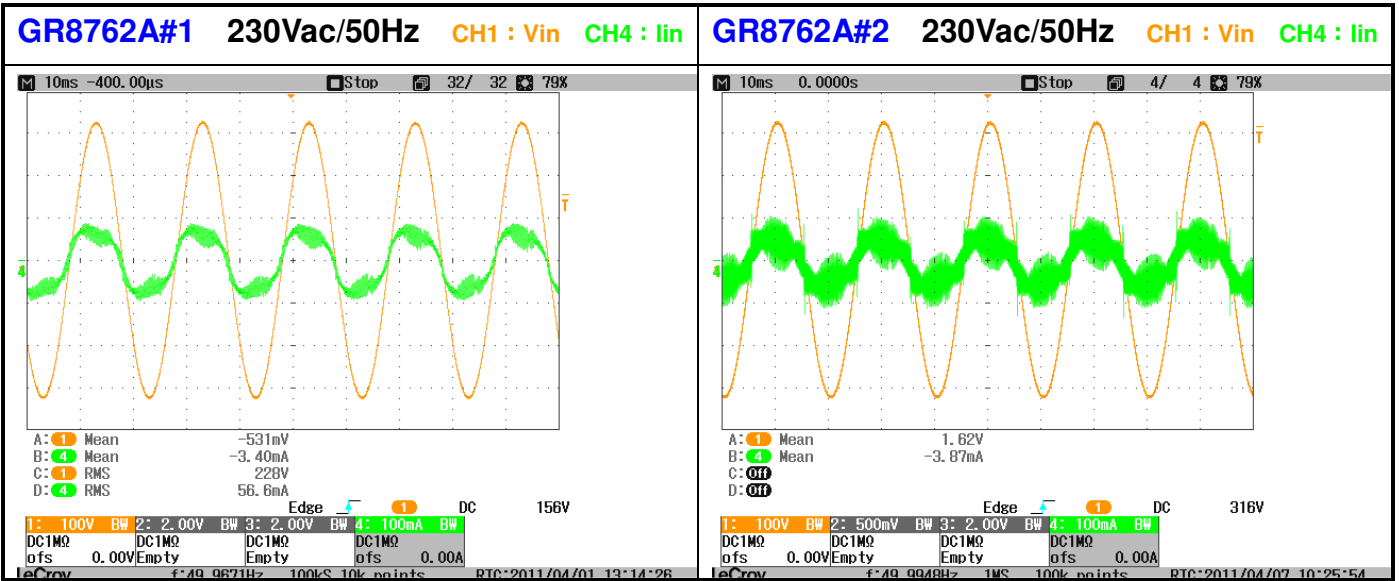
3. Vin & Iin

Test Condition:

1. Input voltage= 90V, 115V, 230V, 264V
2. Load= Full Load

Test data and results are as follows:





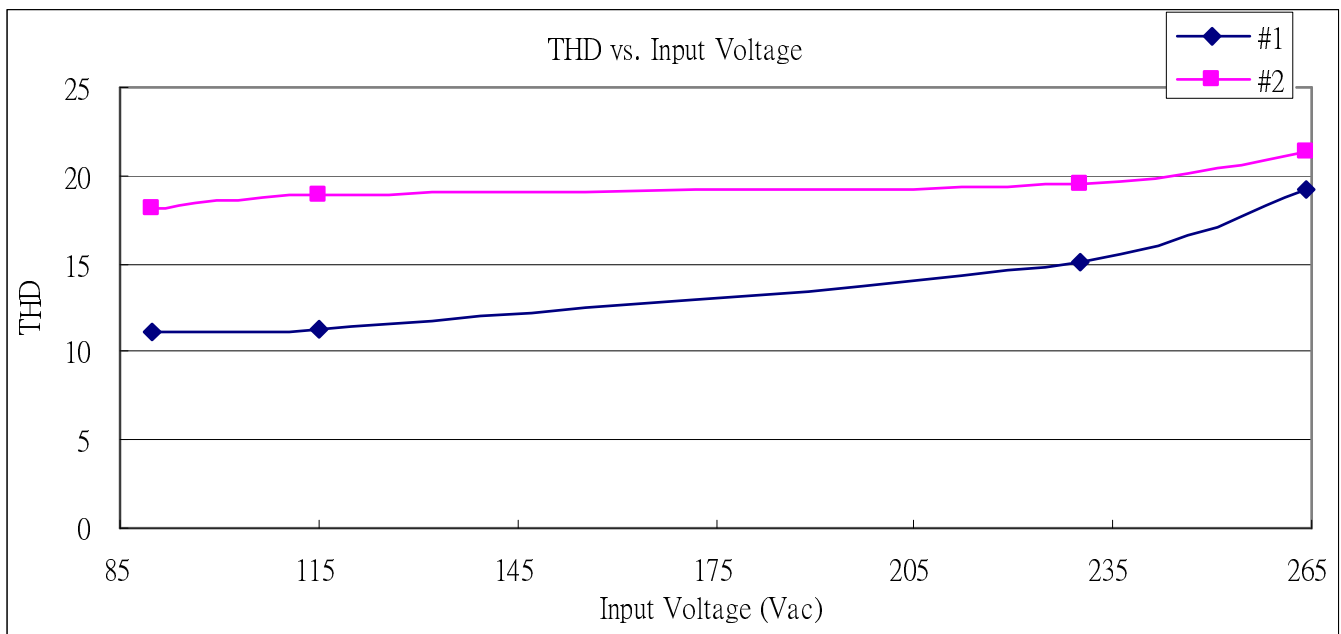
4. T.H.D.

Test Condition:

1. Input voltage= 90V, 115V, 230V, 264V
2. Load= Full Load

Test data and results are as follows:

	90Vac/60Hz	115Vac/60Hz	230Vac/50Hz	264Vac/50Hz
#1	11.07	11.34	15.09	19.14
#2	18.13	18.95	19.44	21.41



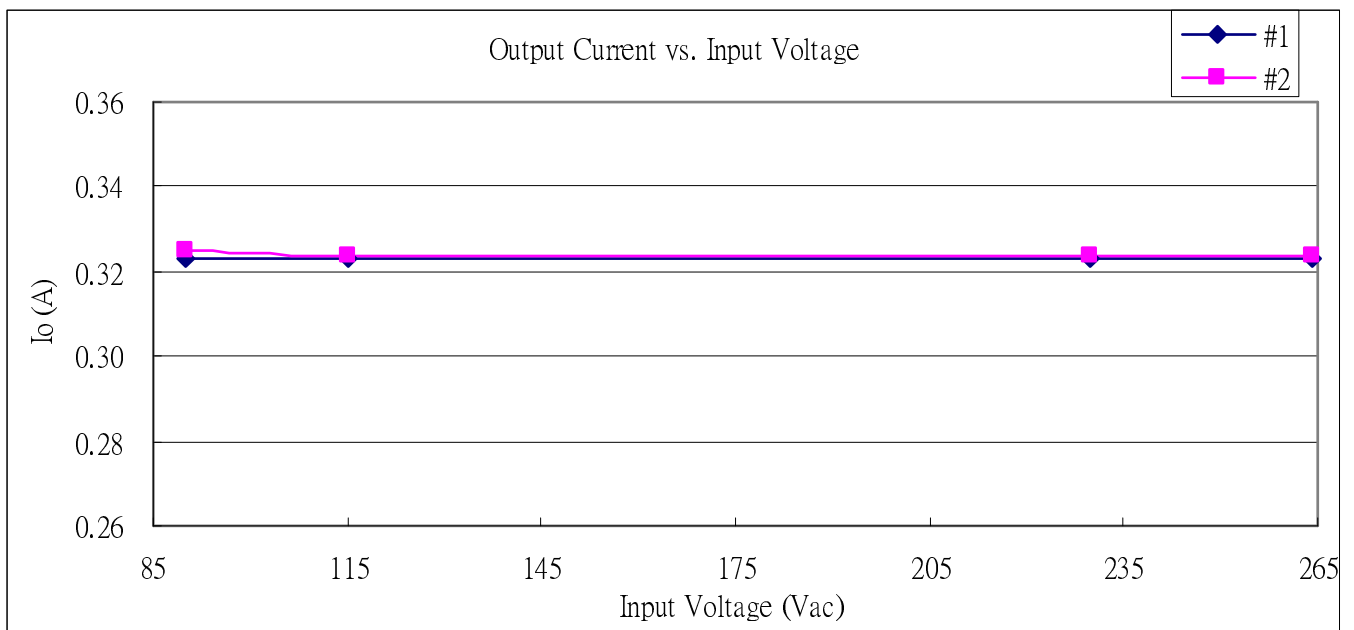
5. Output Current

Test Condition:

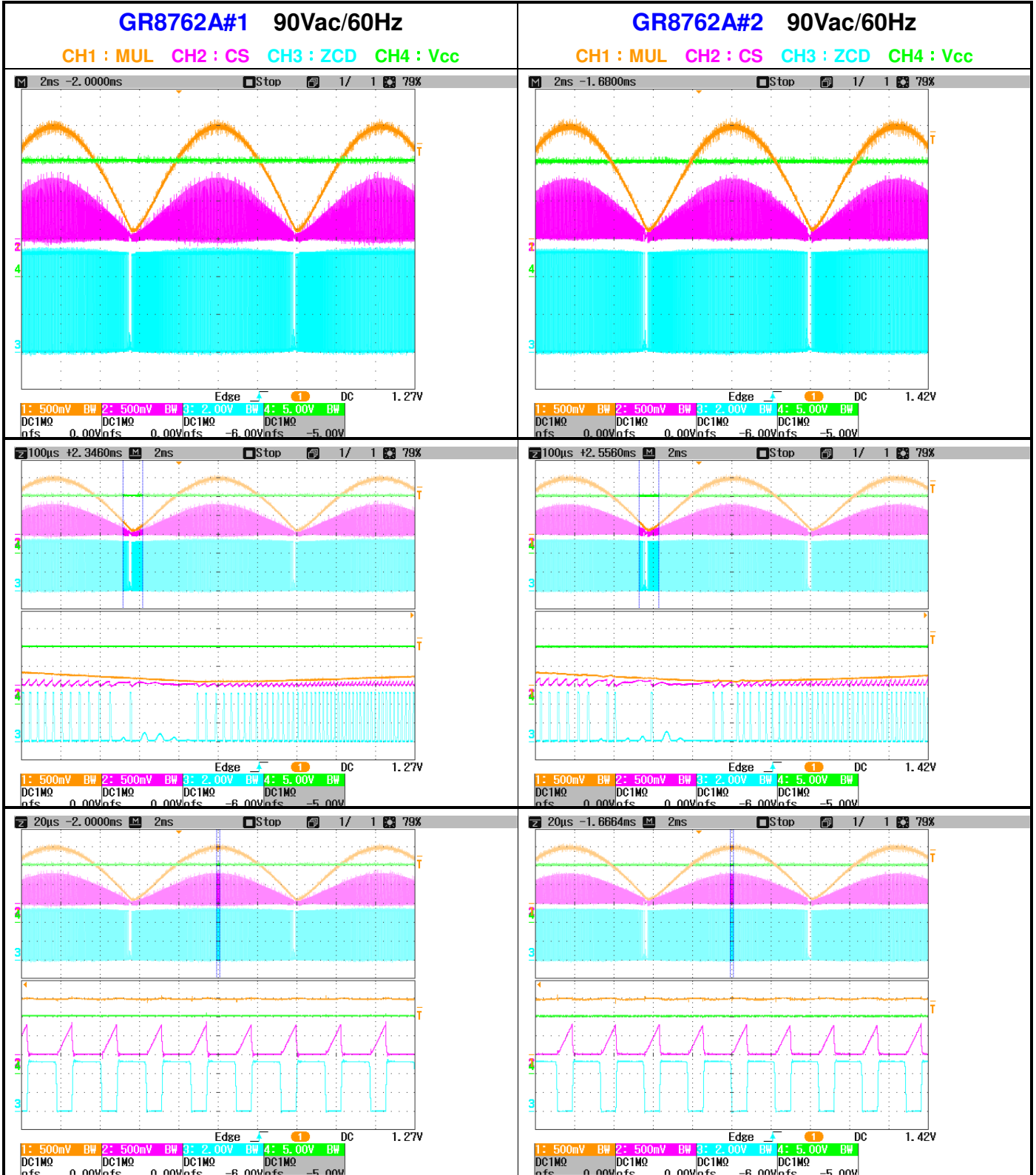
1. Input voltage= 90V, 115V, 230V, 264V
2. Load= Full Load

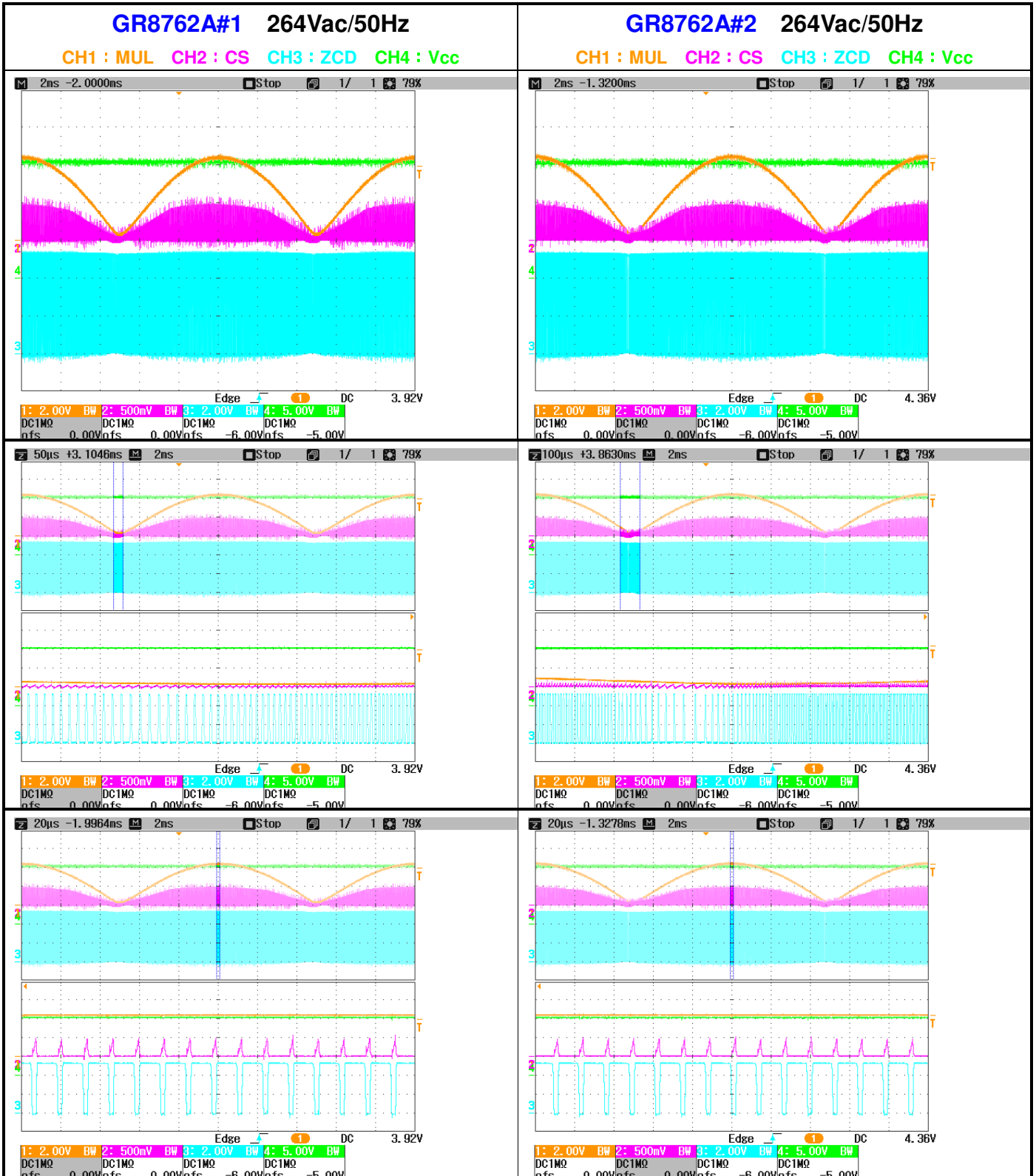
Test data and results are as follows:

	90Vac/60Hz	115Vac/60Hz	230Vac/50Hz	264Vac/50Hz
#1	0.323 A	0.323 A	0.323 A	0.323 A
#2	0.325 A	0.324 A	0.324 A	0.324 A

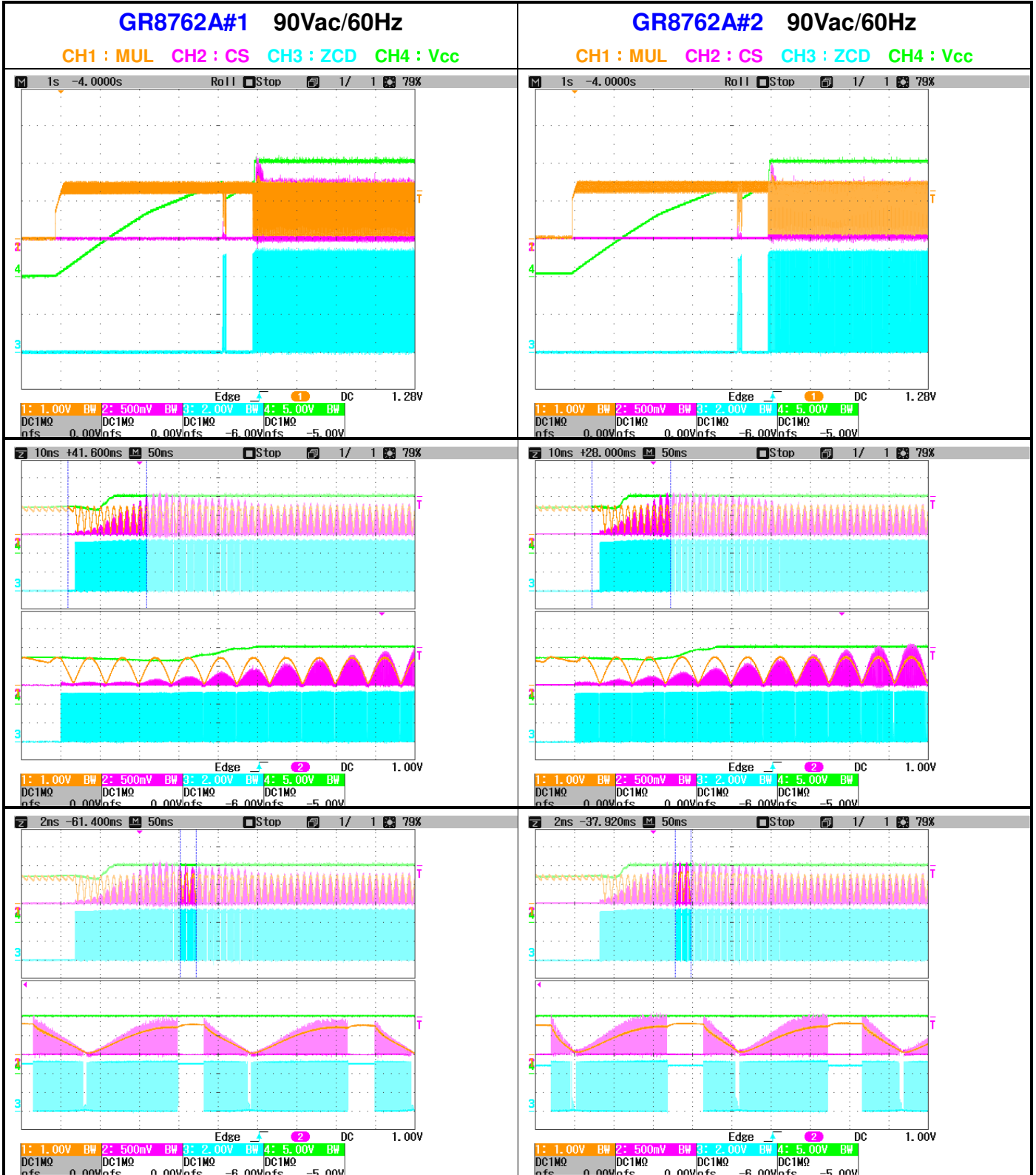


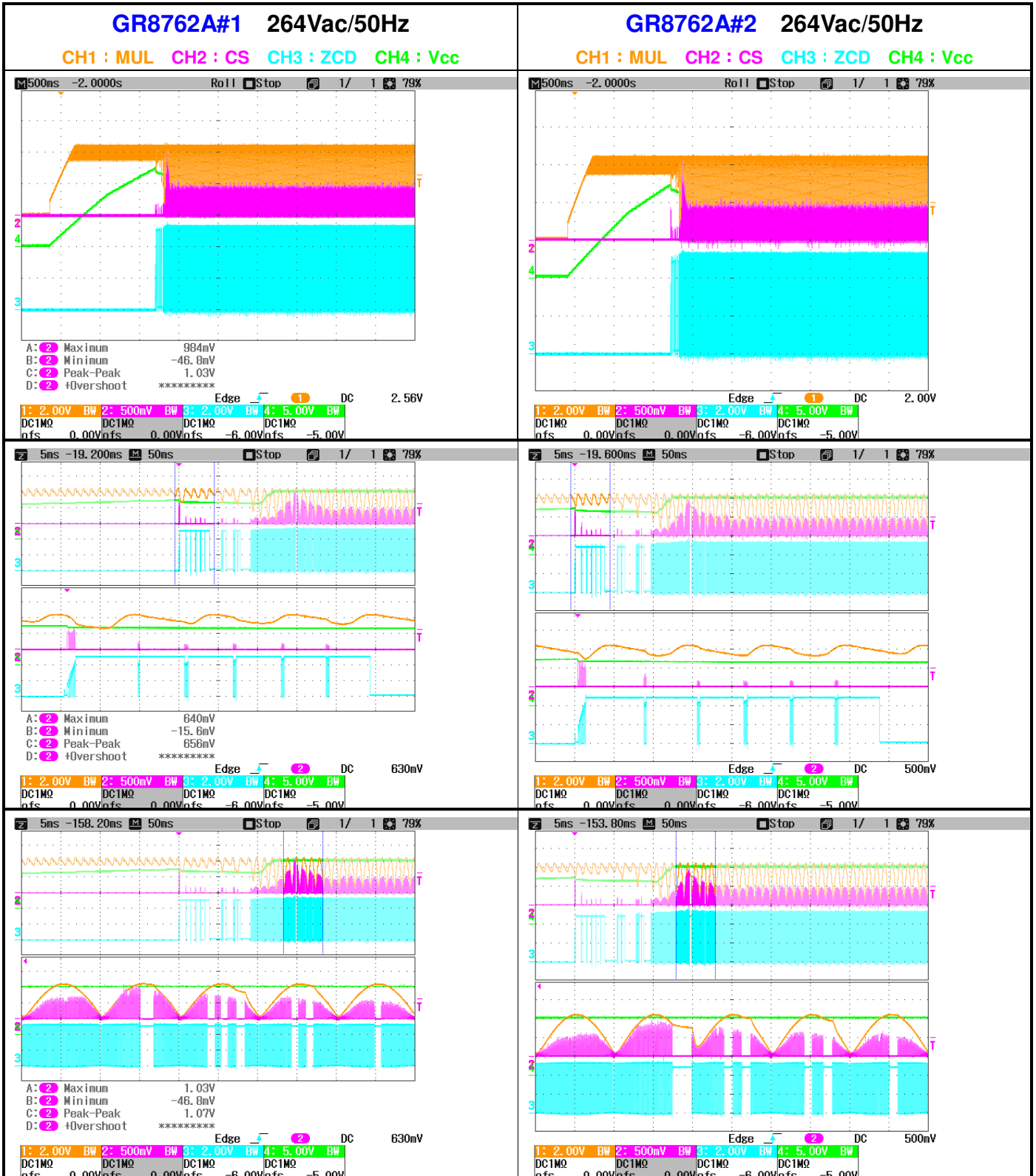
6. MUL, CS, ZCD, Vcc

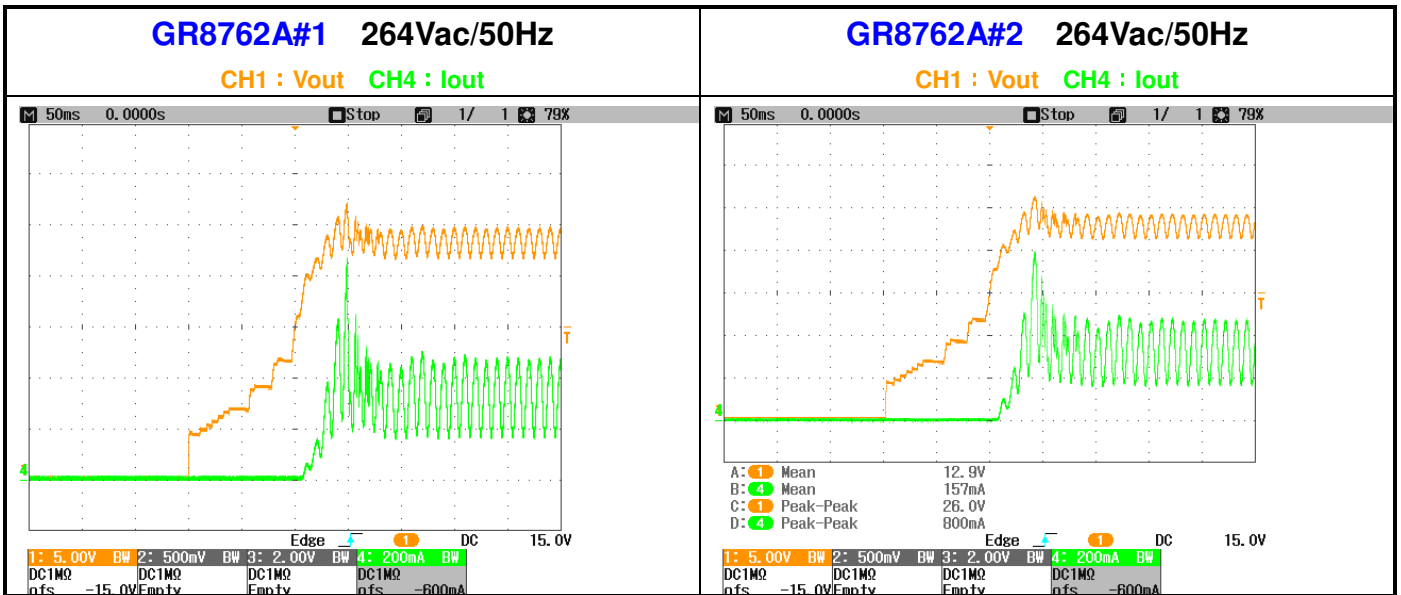
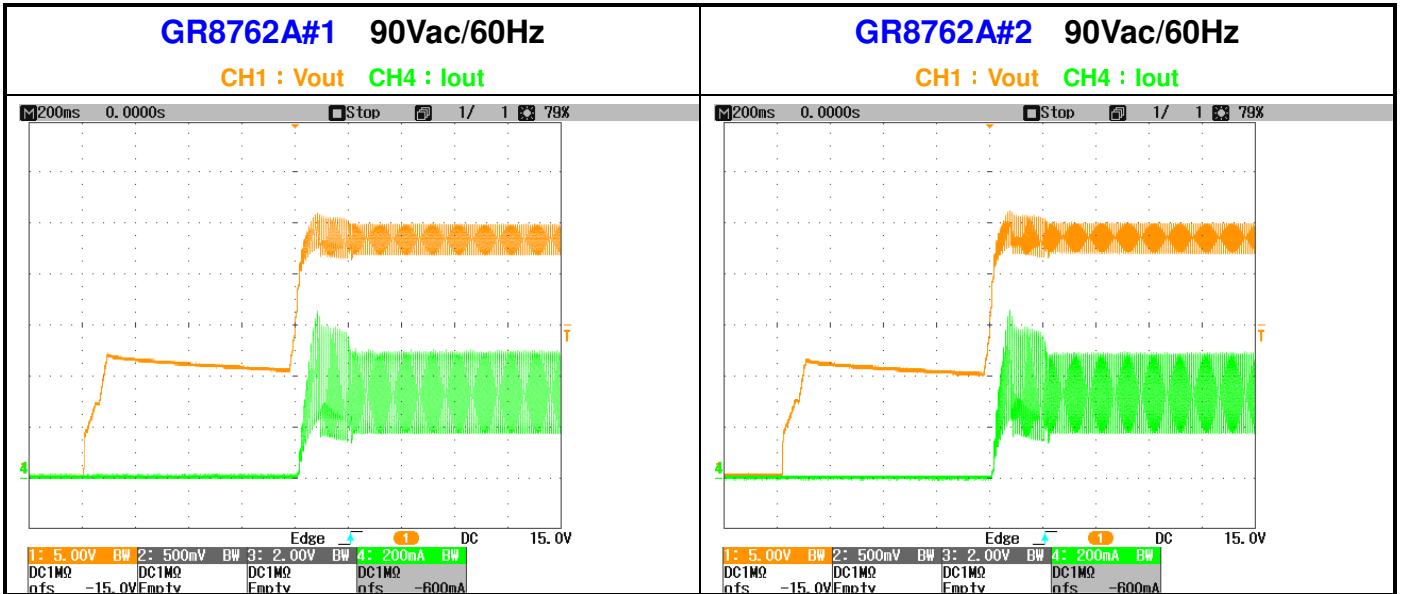




7. Startup







8. Ripple

Test Condition:

1. Input voltage= 90V, 115V, 230V, 264V
2. Load= Full Load

Test data and results are as follows:

		90Vac/60Hz	115Vac/60Hz	230Vac/50Hz	264Vac/50Hz
Vo (p-p)	#1	2.96 V	2.96 V	2.96 V	2.96 V
	#2	2.81 V	2.96 V	3.12 V	2.81 V
Io (p-p)	#1	350 mA	350 mA	350 mA	325 Ma
	#2	337 mA	325 mA	343 mA	325 Ma

