



LM5023 Quasi-Resonant Isolated Flyback Converter

TI reference design number: PMP7991

**Input: 85VAC to 265VAC
Output: 5VDC or 12VDC @ 2A**

AC – DC Test Results

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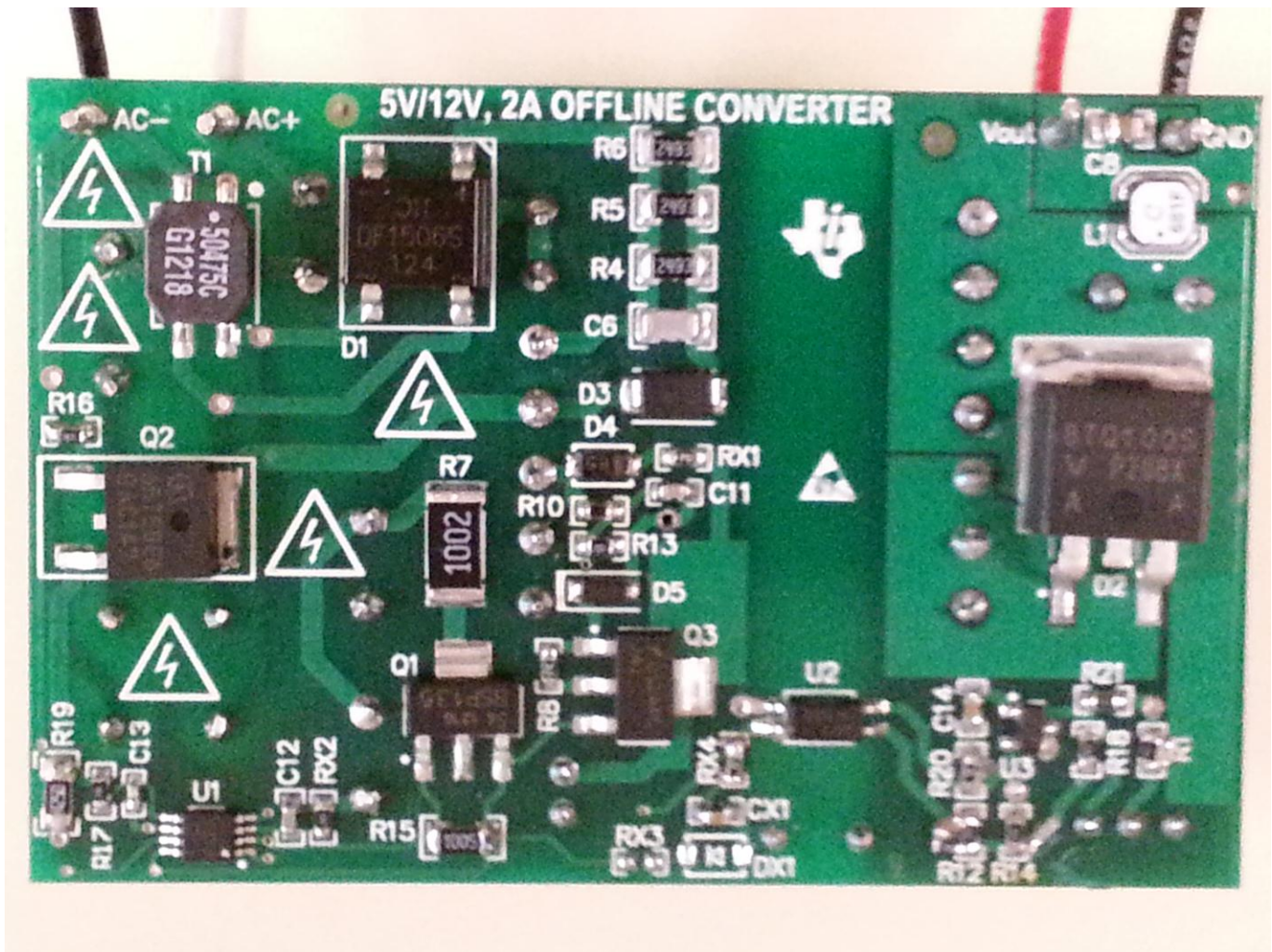
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1 Test SPECIFICATIONS

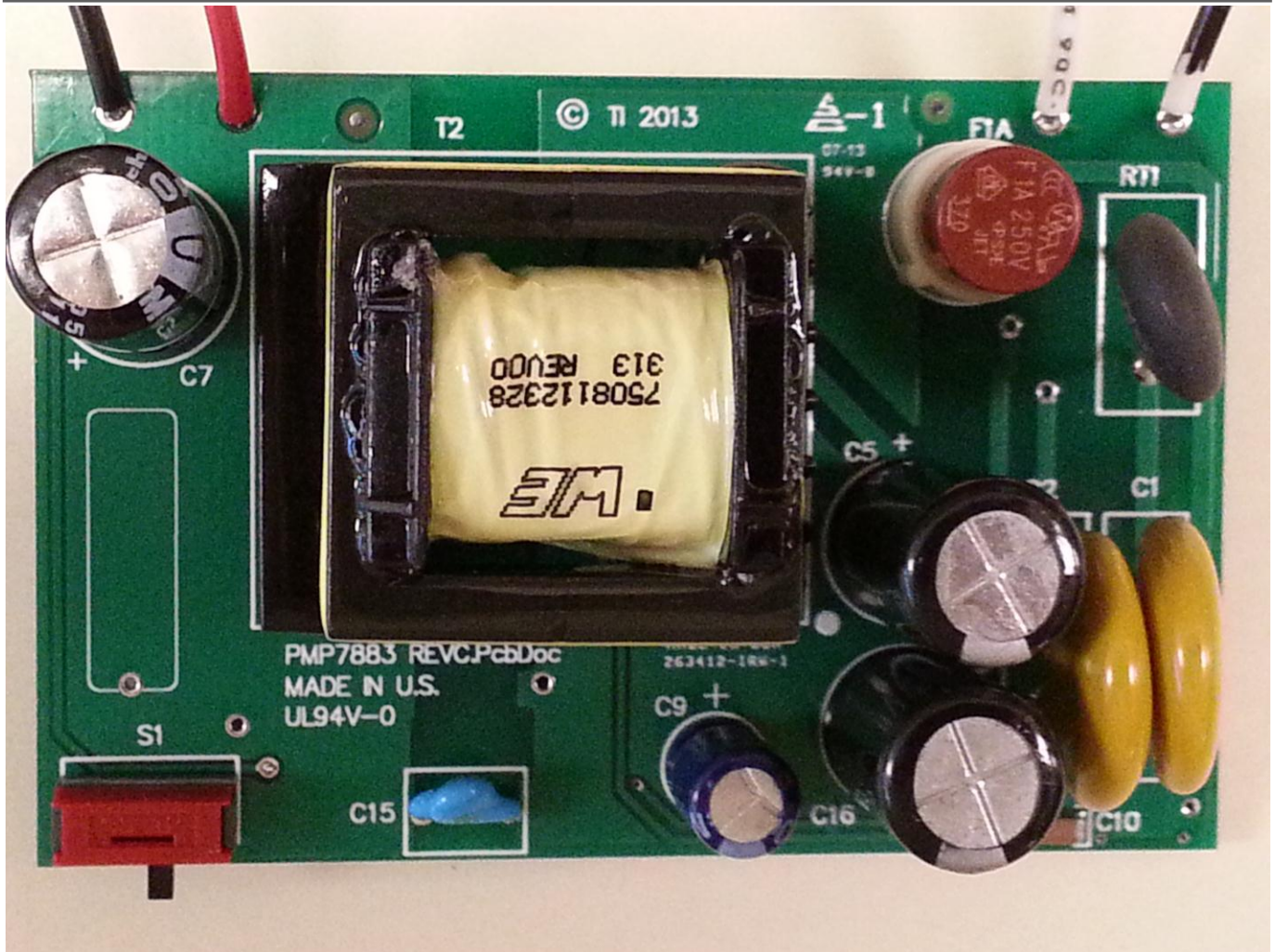
Vin Minimum	85VAC
Vin Maximum	265VAC
Vout	5VDC or 12VDC
Iout	2A Max.

2 Photos

The photographs below show the PMP7991 assembly as built on the PMP7883 board.

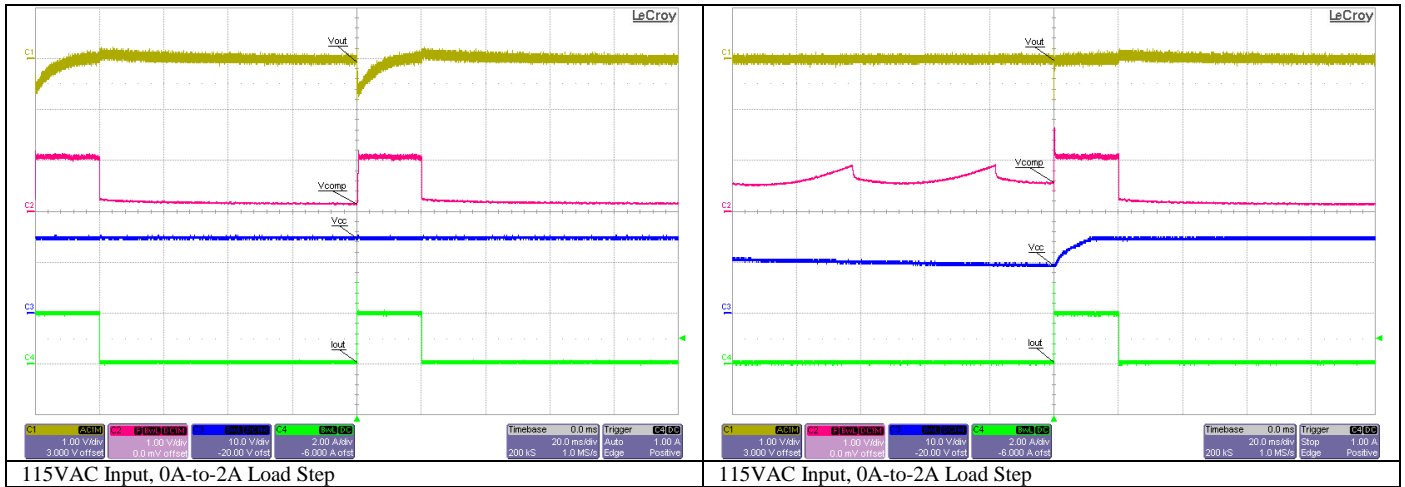
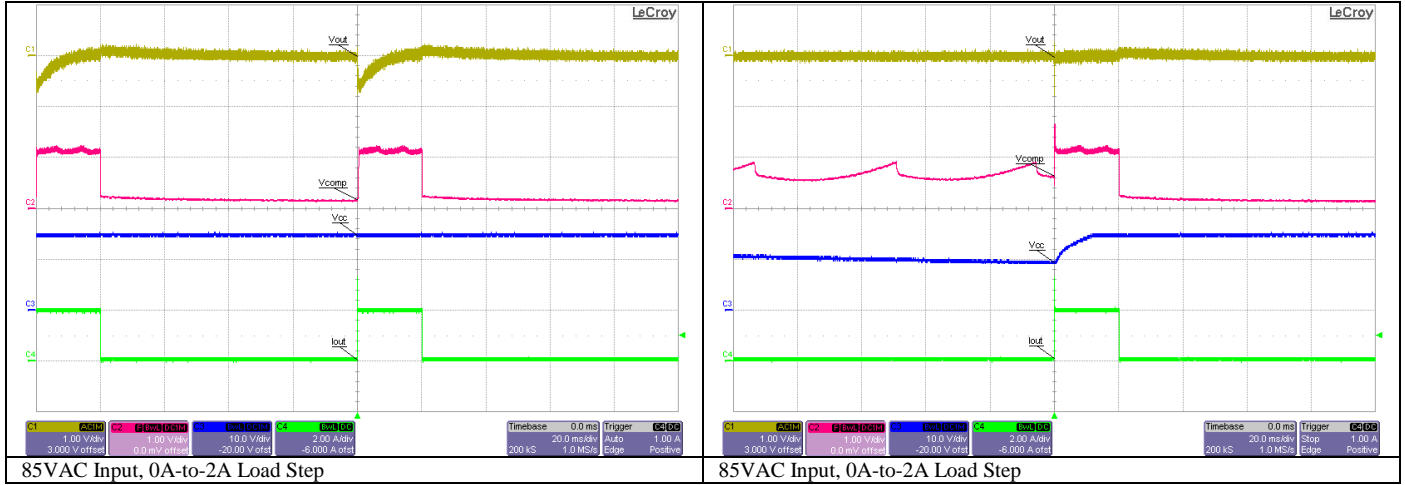


PMP7991 Test Results

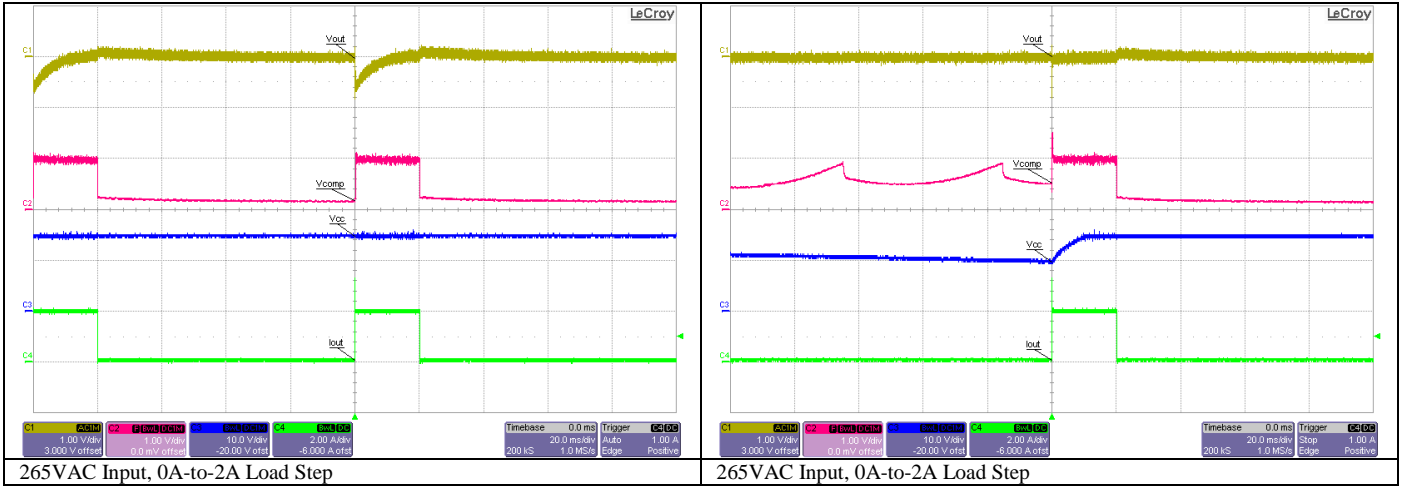
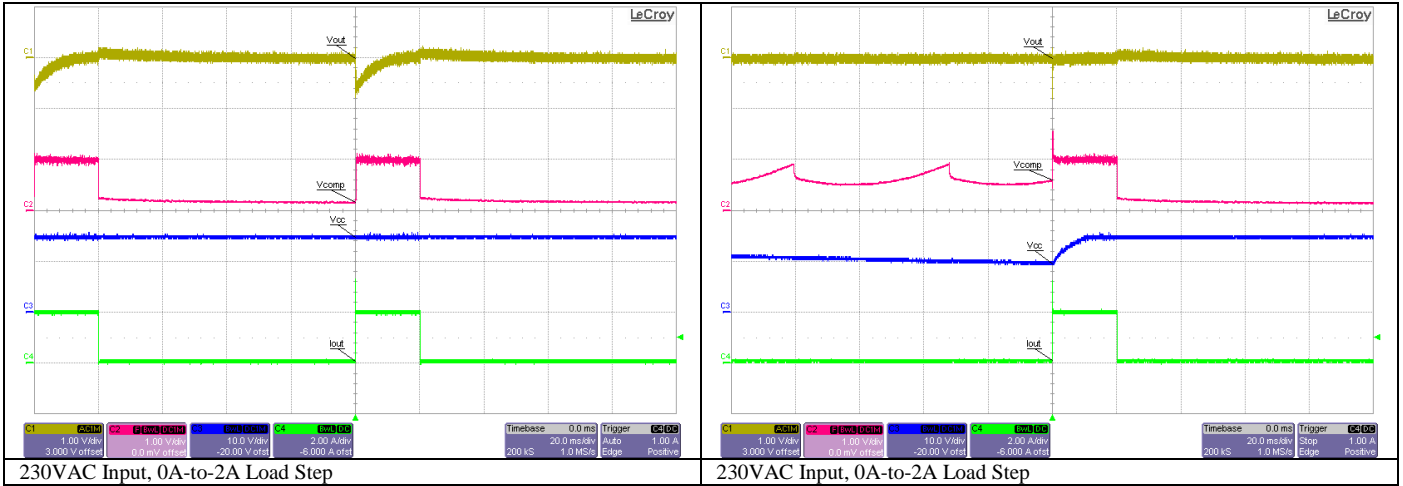


3 Load Transient

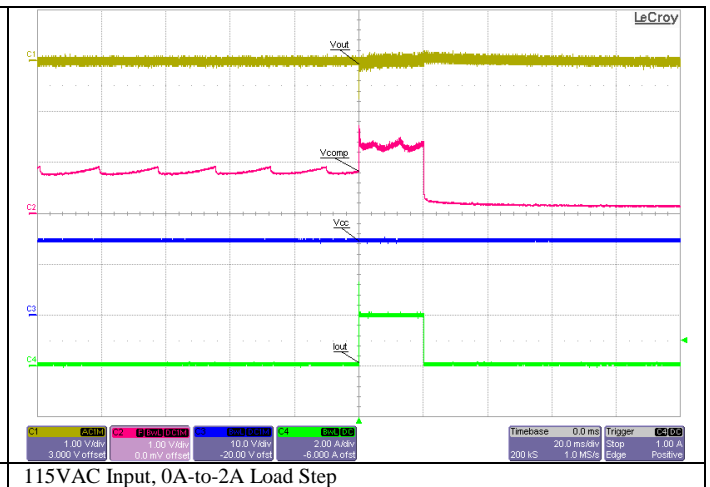
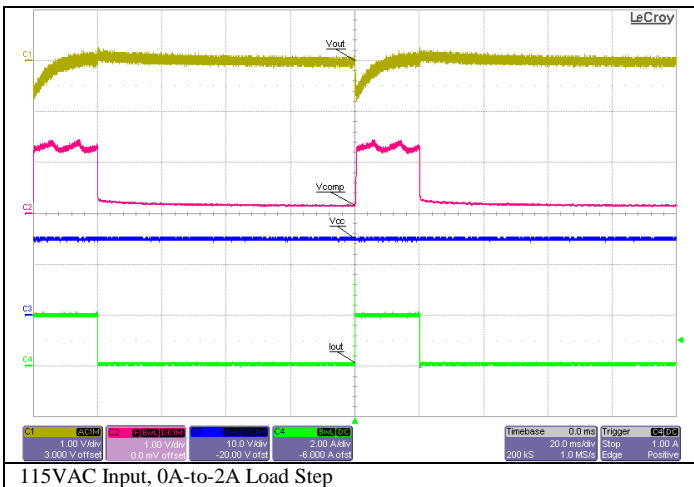
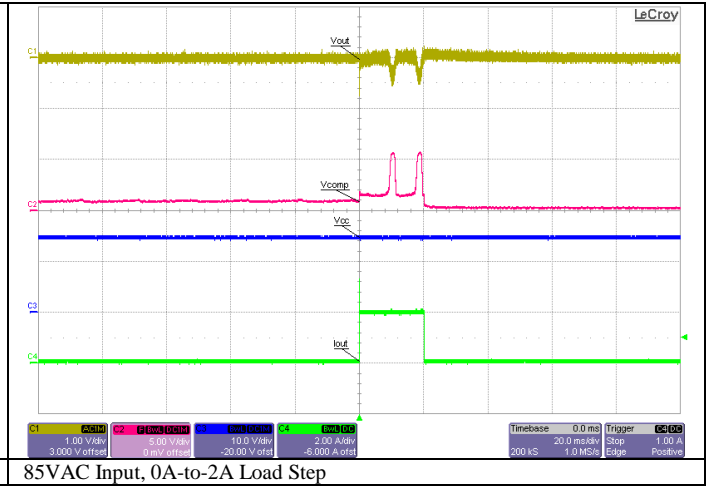
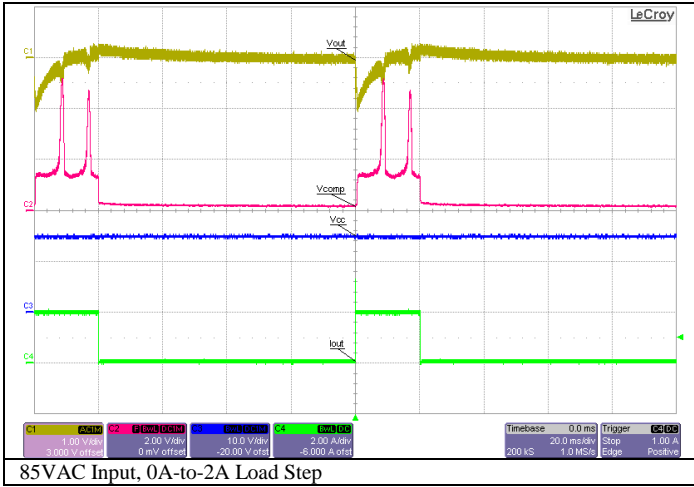
3.1 5VDC Output Transient



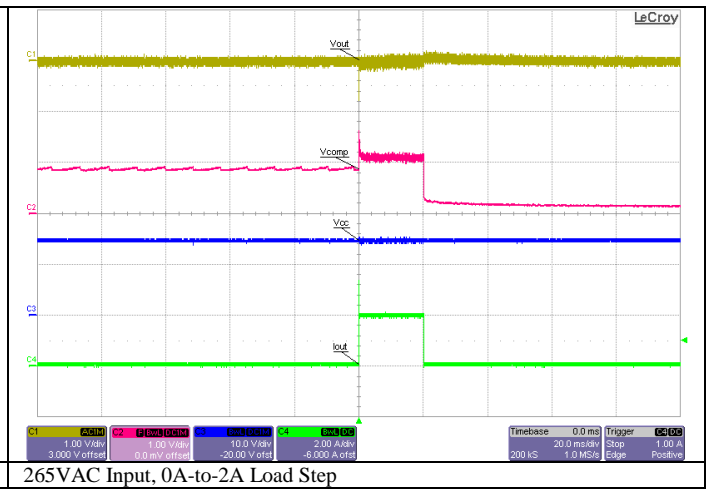
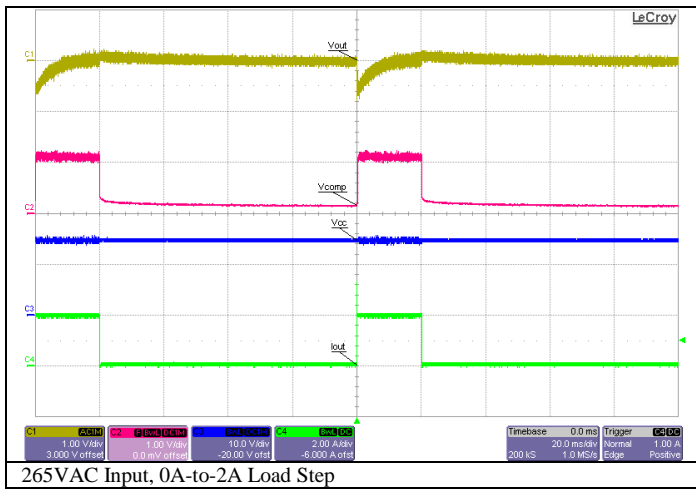
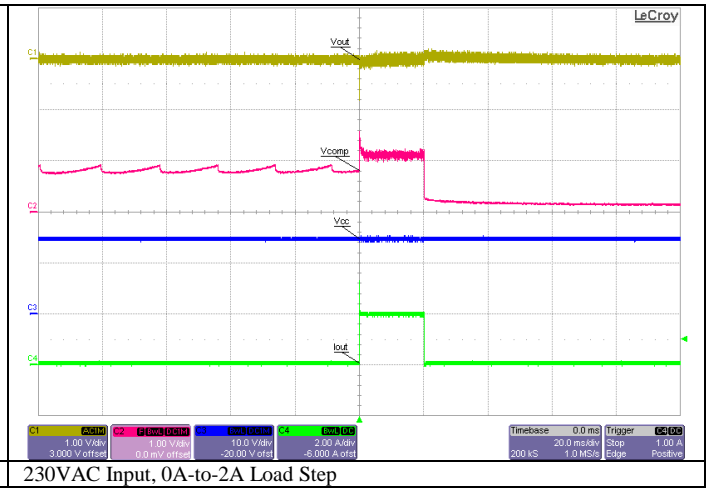
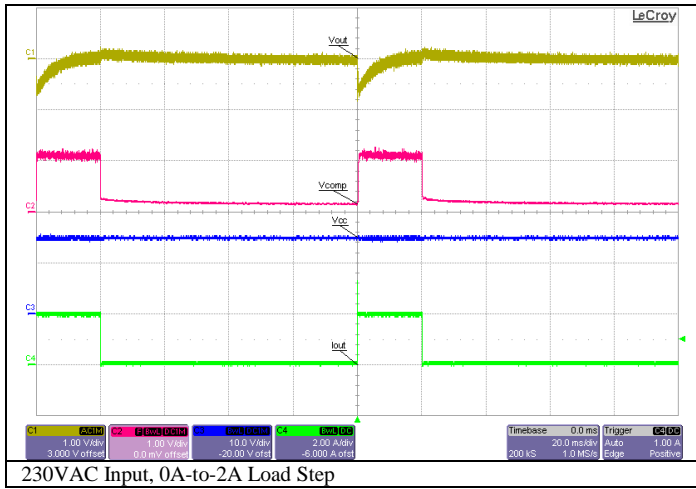
PMP7991 Test Results



3.2 12VDC Output Transient

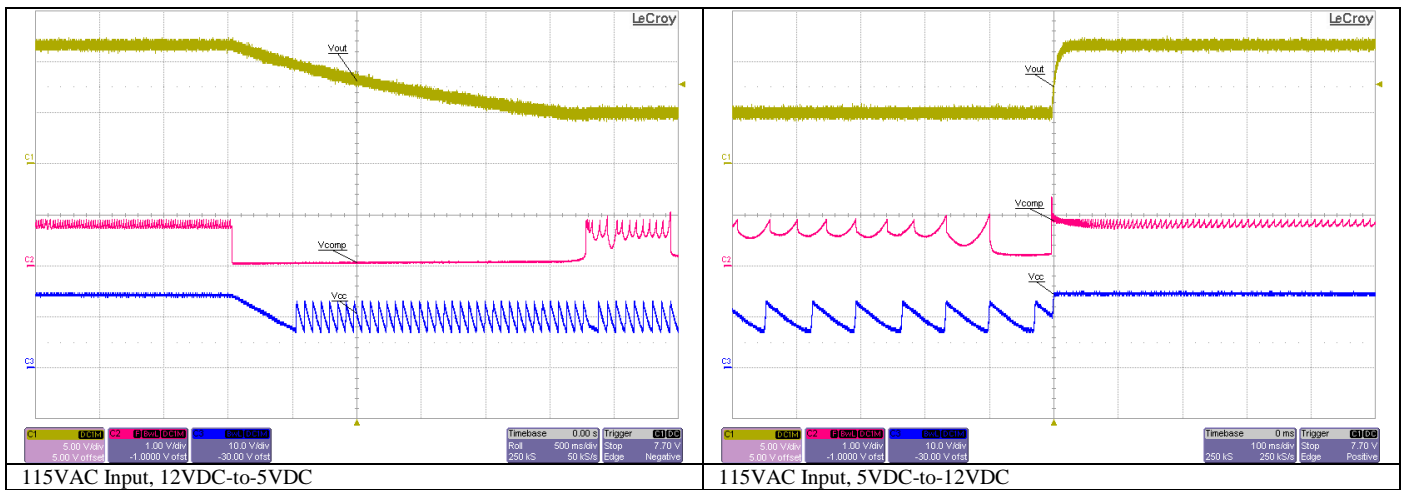
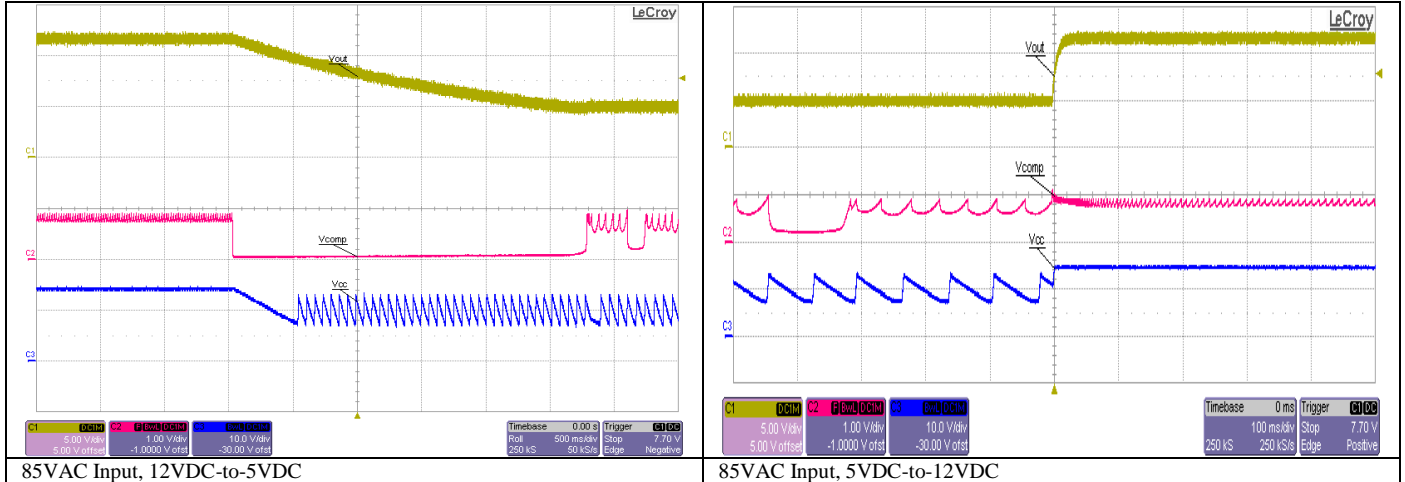


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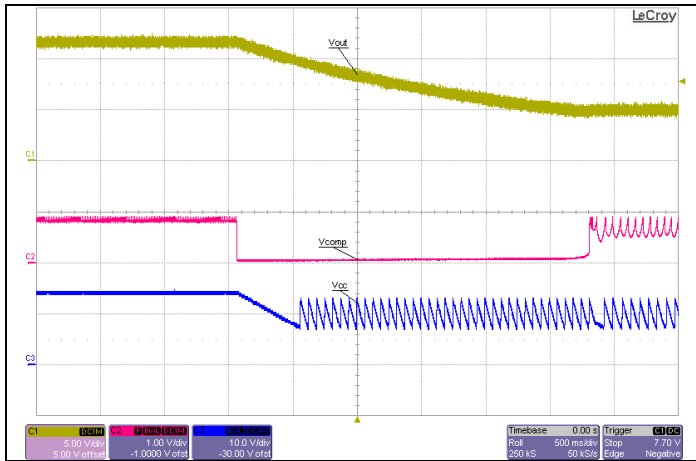


4 Output Voltage Transition

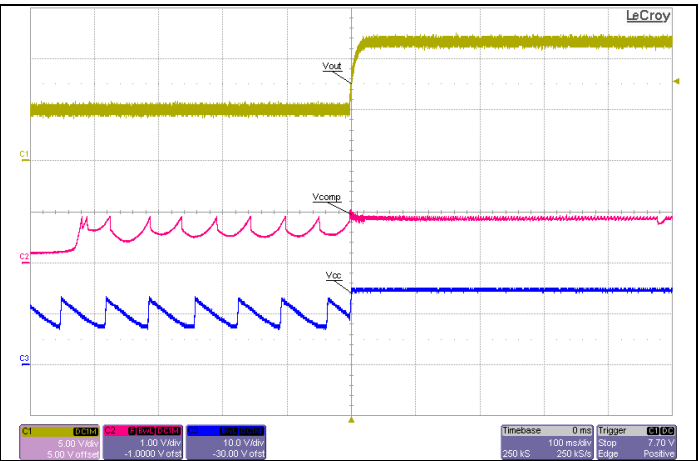
4.1 Output Voltage Transition at No Load



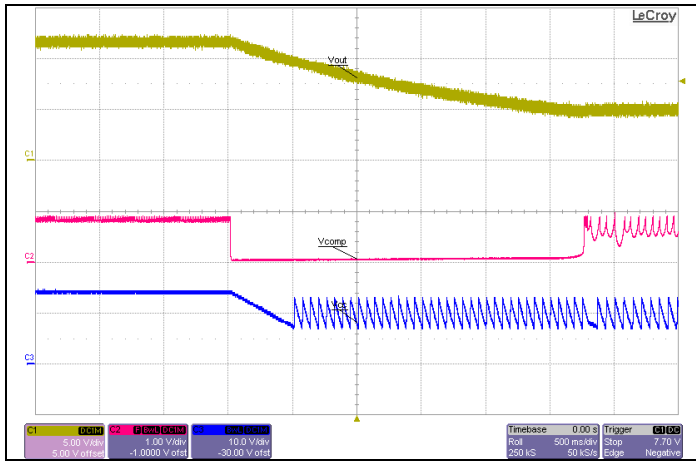
PMP7991 Test Results



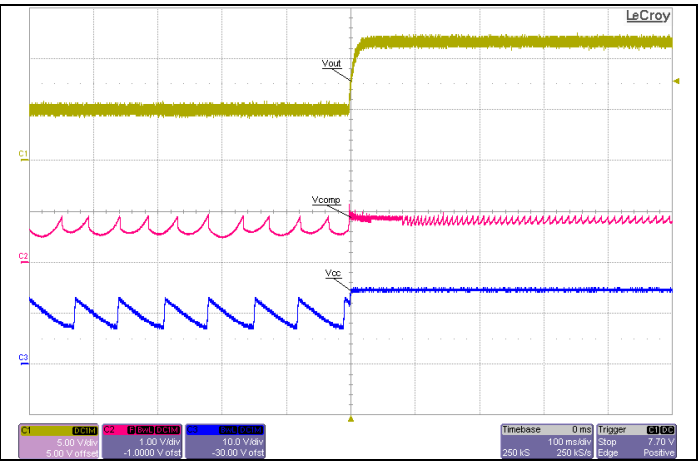
230VAC Input, 12VDC-to-5VDC



230VAC Input, 5VDC-to-12VDC

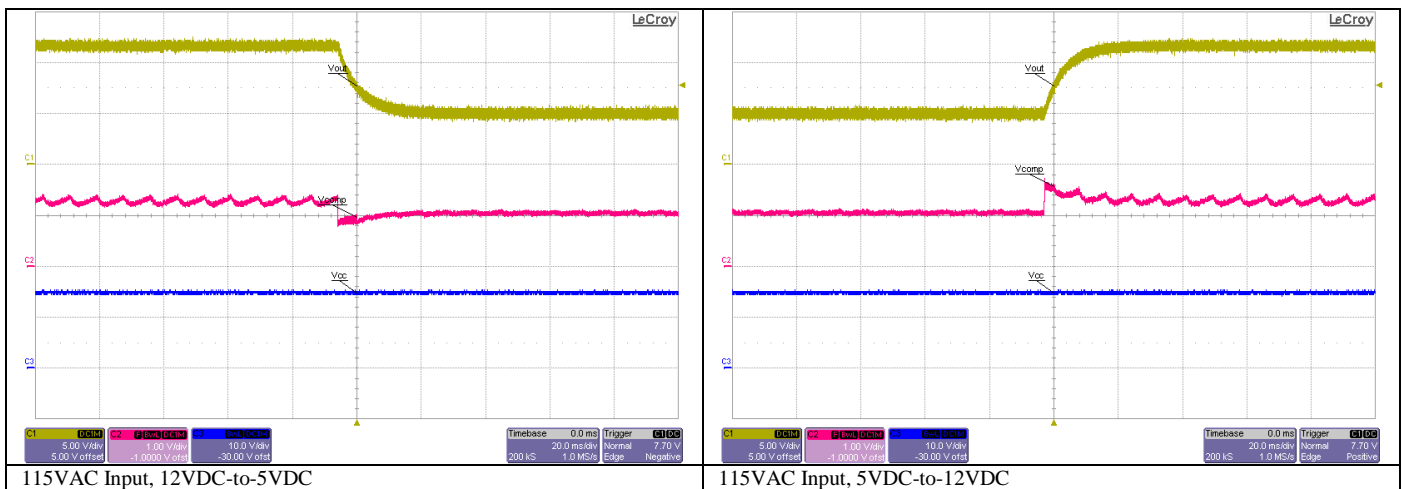
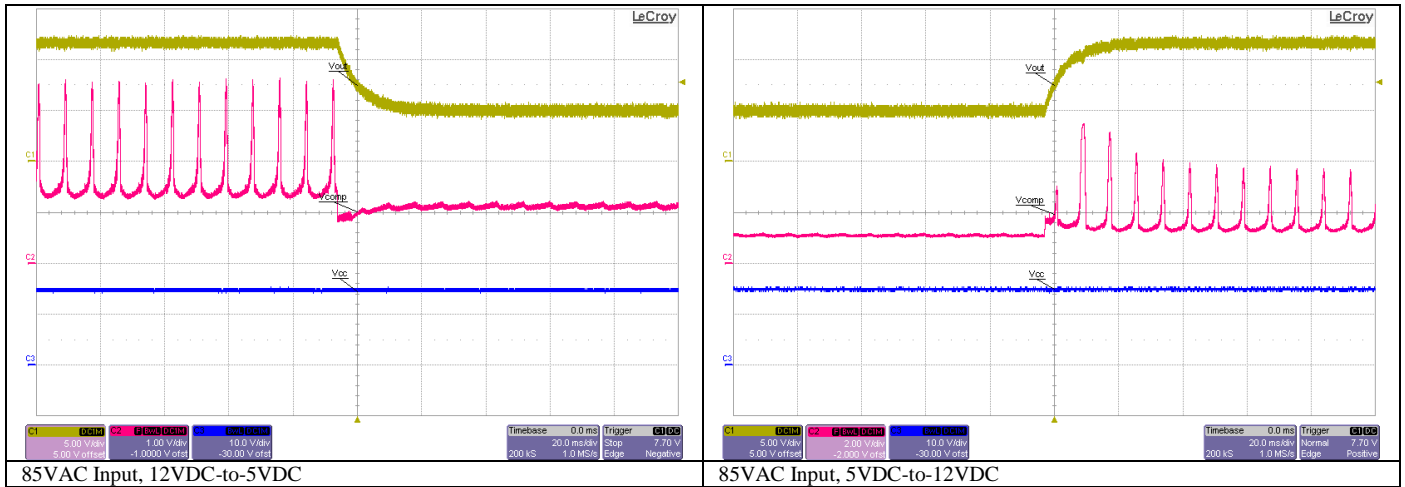


265VAC Input, 12VDC-to-5VDC

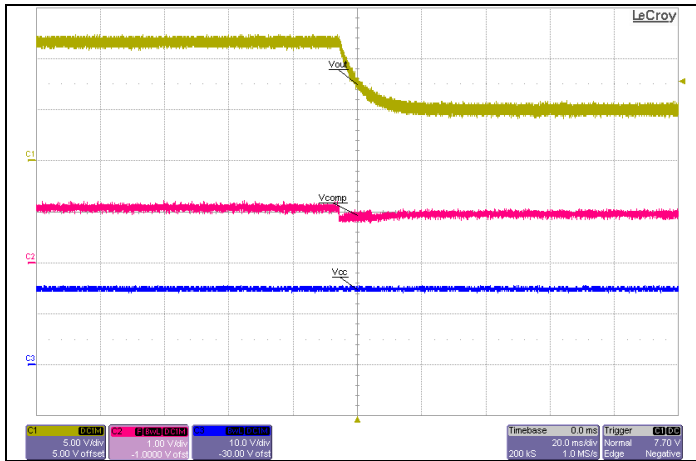


265VAC Input, 5VDC-to-12VDC

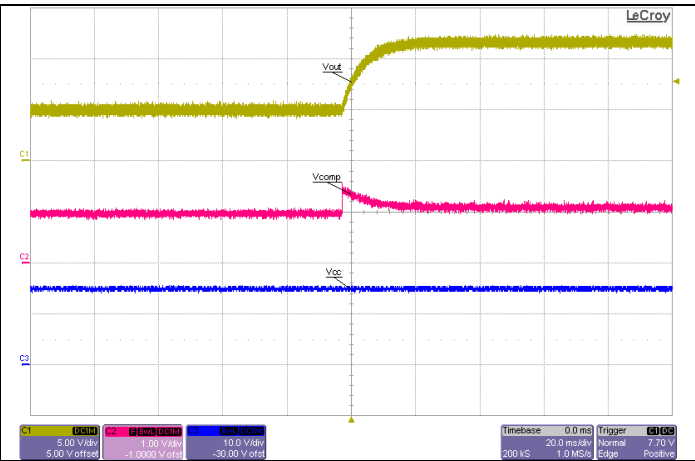
4.2 Output Voltage Transition at 2A Load



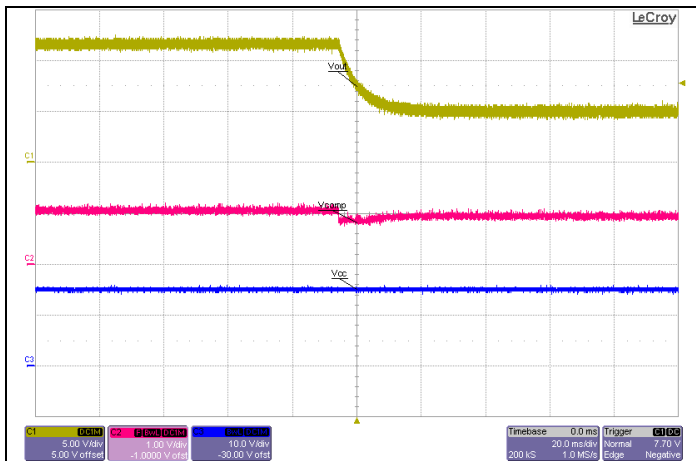
PMP7991 Test Results



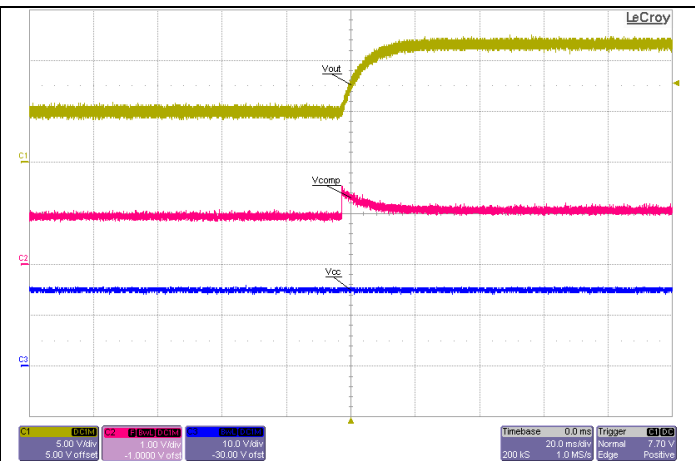
230VAC Input, 12VDC-to-5VDC



230VAC Input, 5VDC-to-12VDC



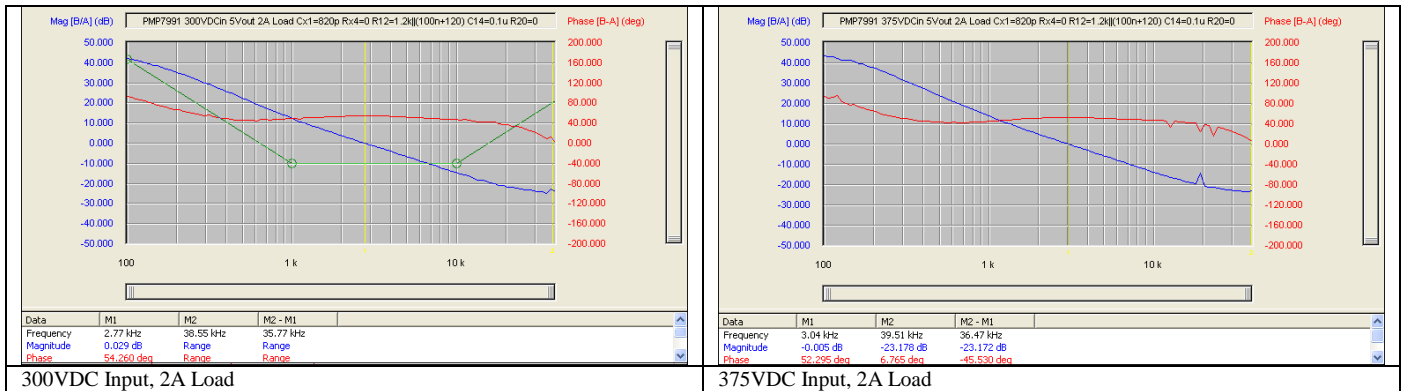
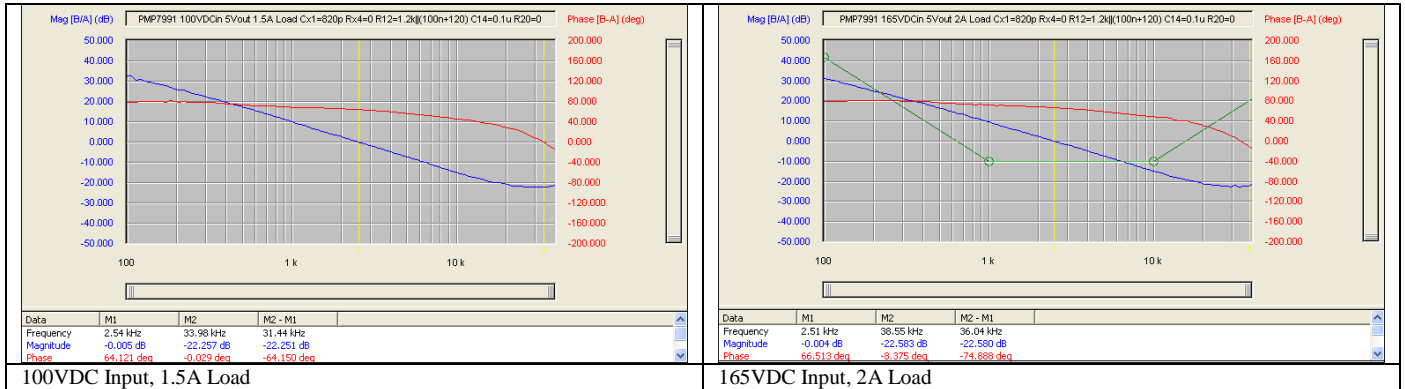
265VAC Input, 12VDC-to-5VDC



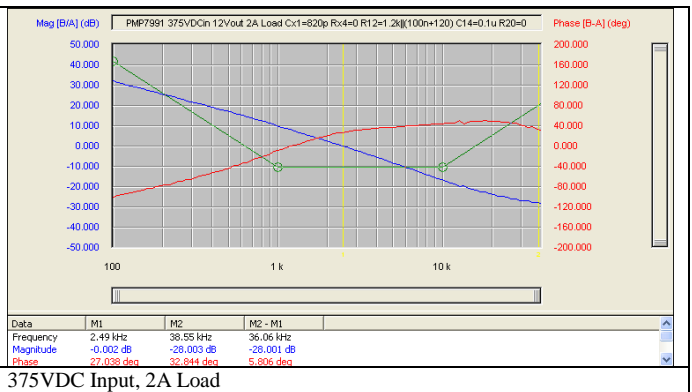
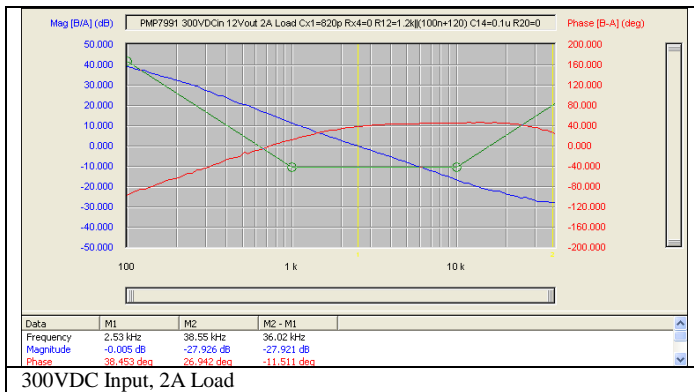
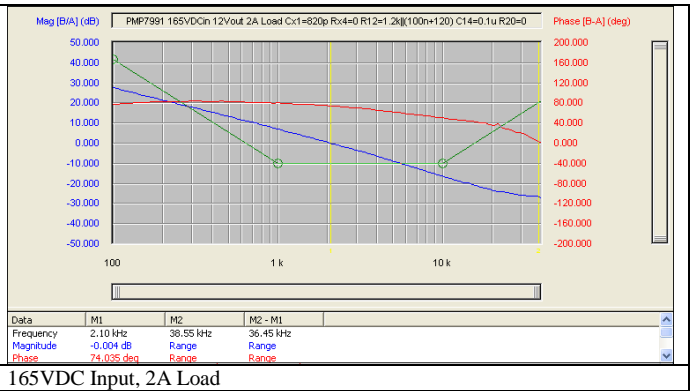
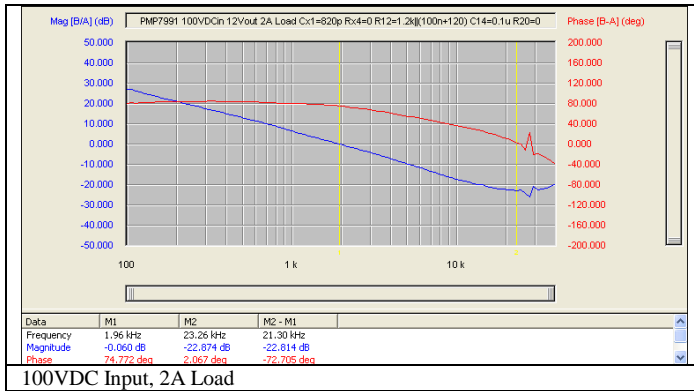
265VAC Input, 5VDC-to-12VDC

5 Control Loop Results

5.1 Frequency Response for 5V Output



5.2 Frequency Response for 12V Output



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