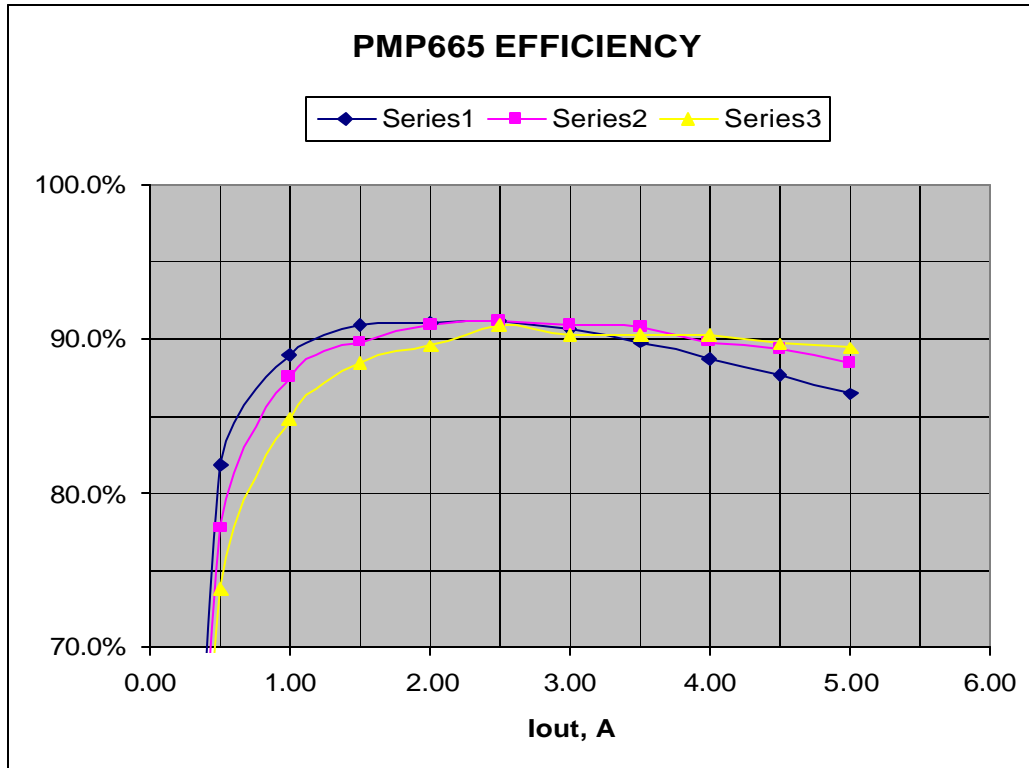


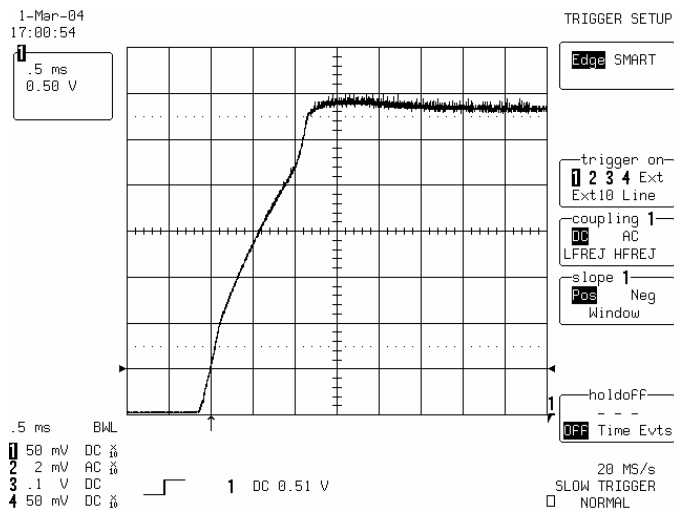
Efficiency

Efficiency was taken with the following loads and input voltage:

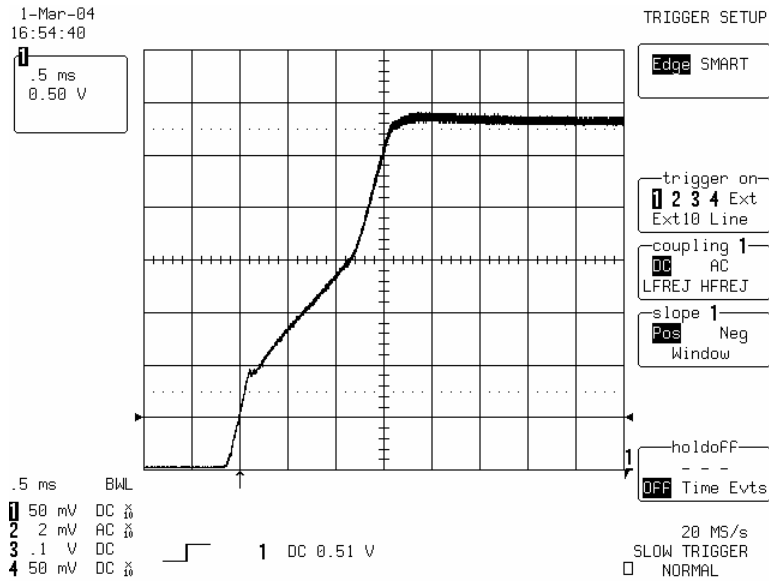


Turn On Response

The turn on response with a 48 V input and 0 A load is shown below:



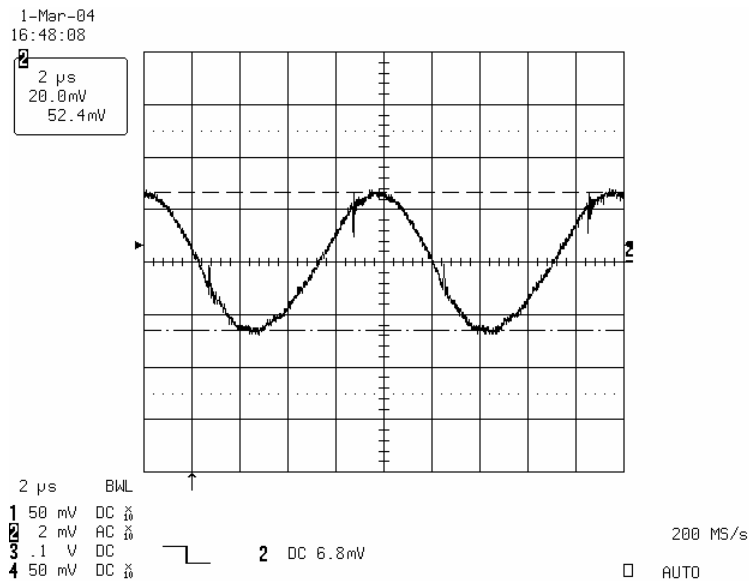
The turn on response with a 48 V input and 5A load is shown below:



Output Voltage Ripple and Noise

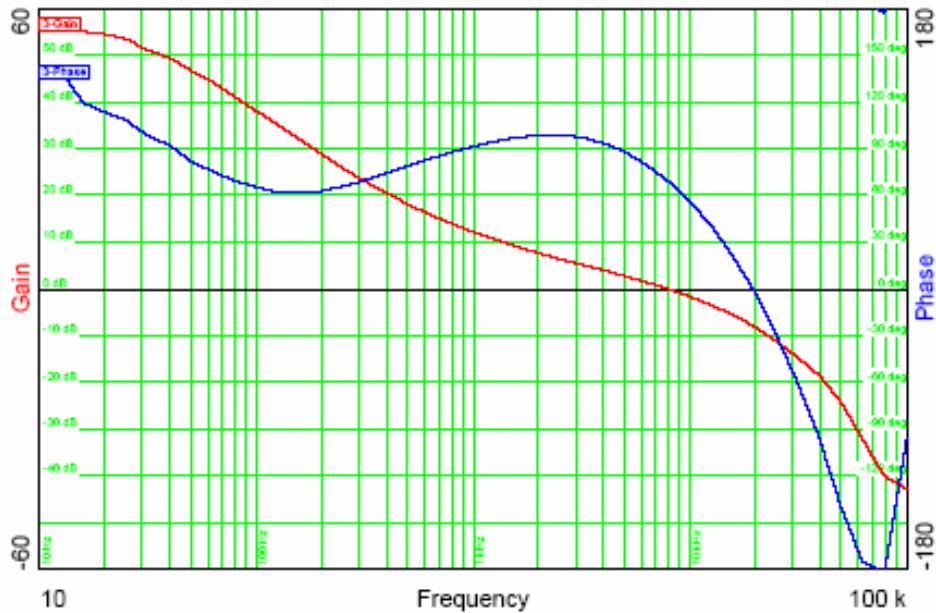
All measurements were taken with a 25MHz bandwidth limit

Output voltage ripple and noise at 48 V input and 5 A load:

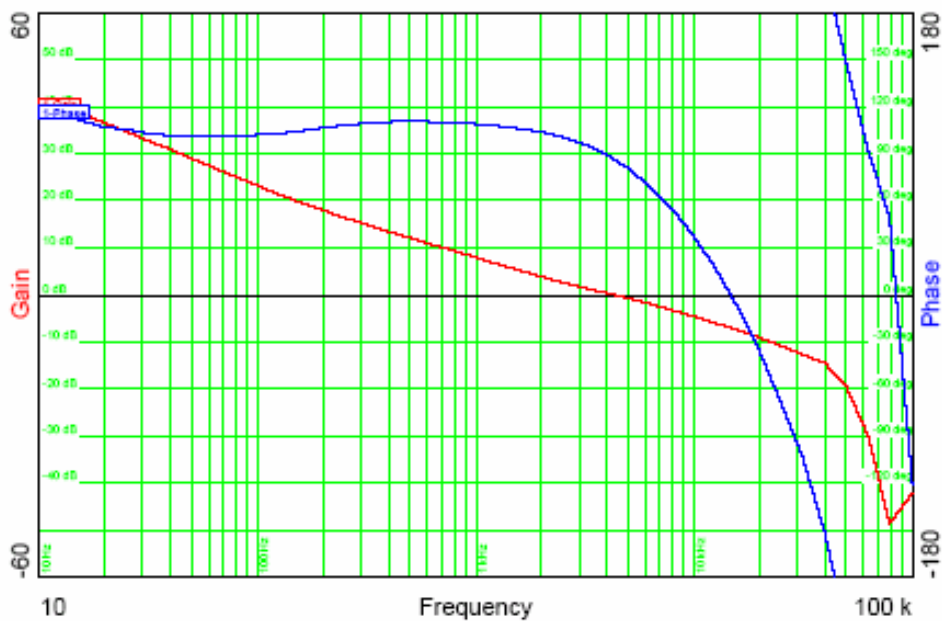


Stability Analysis (Loop Gain)

The figure below is the loop gain of the converter with a 48 V input and a 0 A load. The bandwidth is 8.5 KHz, the phase margin is 70 degrees, and the gain margin is 8 dB.

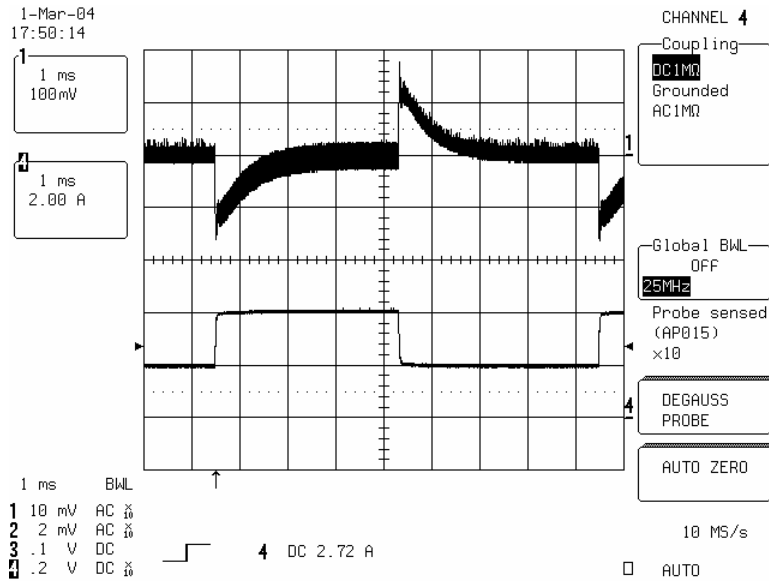


The figure below is the loop gain of the converter with a 48 V input and a 5 A load. The bandwidth is 4.7 KHz, the phase margin is 80 degrees, and the gain margin is 8 dB.



Dynamic Loading

The output voltage transient response was measured with a load step from 2 A to 4 A with a 48 V input.



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