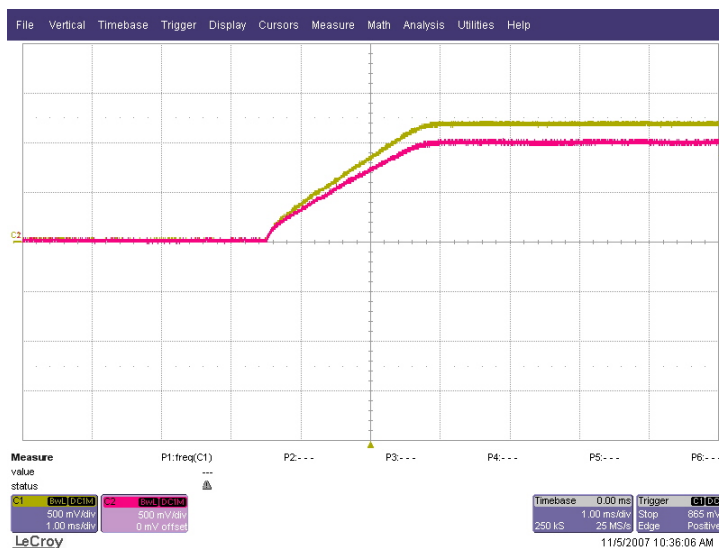


1 Startup

The photo below shows the startup waveforms. The input voltage is 12V, the outputs are not loaded. The timebase is set to 1ms/Division.

Channel 1 : 1.2V Output – Yellow (500mV/Division)

Channel 2 : 1.0V Output – Pink (500mV/Division)

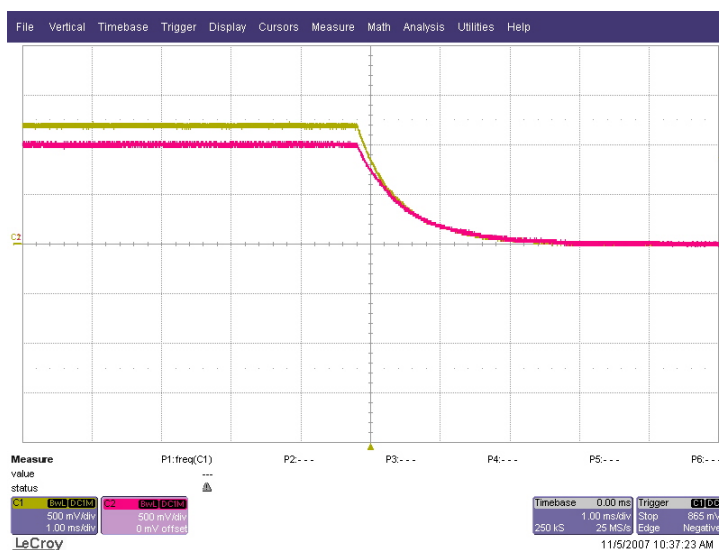


2 Shutdown

The photos below show the shutdown waveforms. The input voltage is 12V. The timebase is set to 1ms/Division. The outputs are unloaded. The supplies are turned off by removing the 5V bias.

Channel 1 : 1.2V Output – Yellow (500mV/Division)

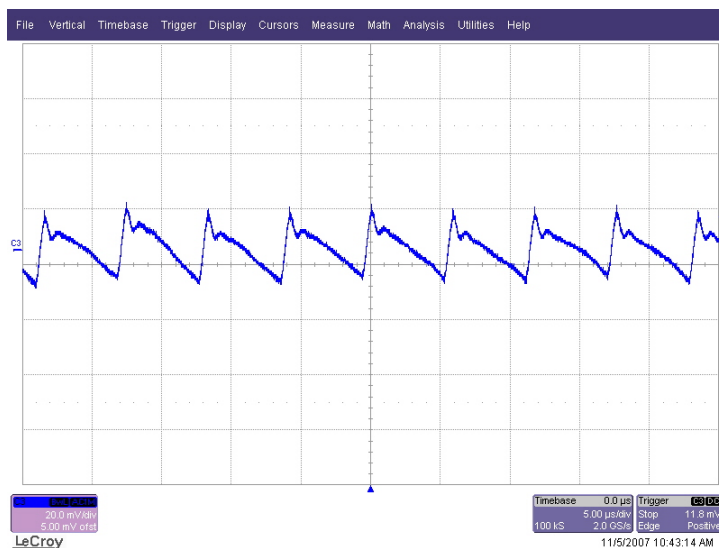
Channel 2 : 1.0V Output – Pink (500mV/Division)



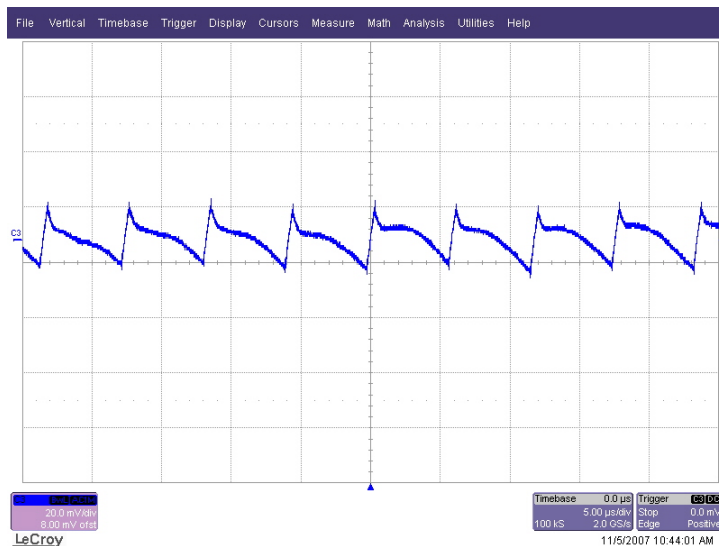
3 Output Ripple Voltage

The output voltage ripple for each converter is shown in the figures below. The input is 12V. The outputs are fully loaded. The timebase is 5 μ s/Division.

Channel 3 : 1.2 Output – Blue (AC Coupled; 20mV/Division)



Channel 3 : 1.0 Output – Blue (AC Coupled; 20mV/Division)

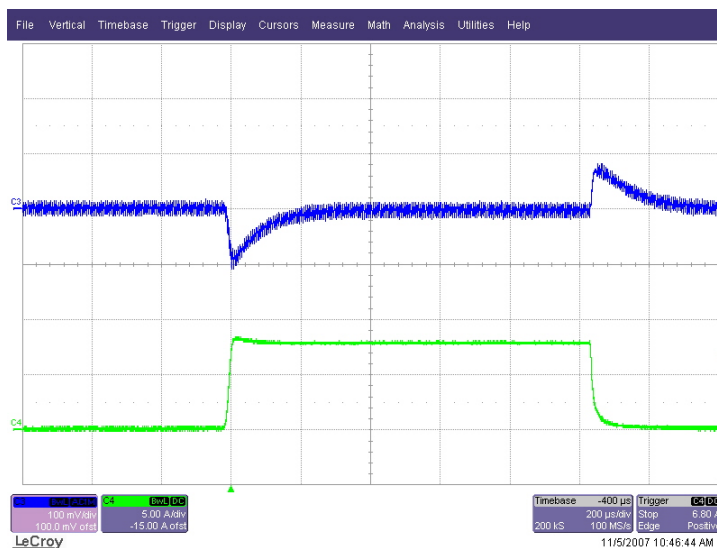


4 Load Transients

The photos below show the transient response. The current is pulsed from 0% to 100% load. The timebase is set to 200us/Division.

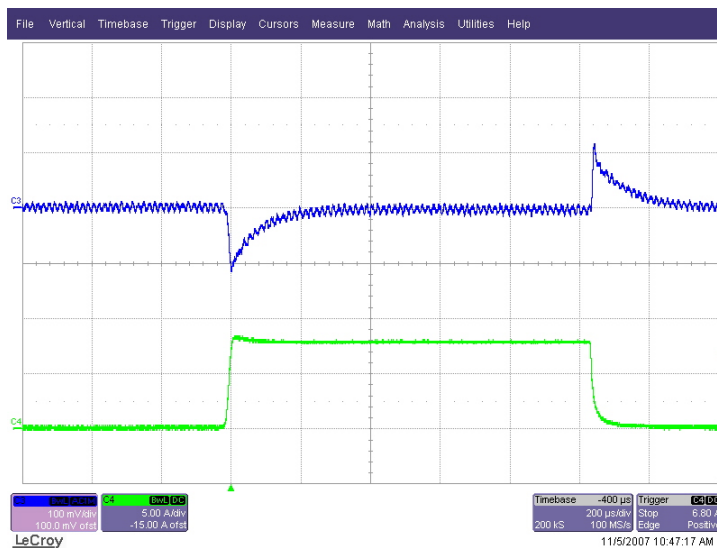
Channel 3 : 1.2V Output – Blue (AC Coupled; 100mV/Division)

Channel 4 : Output Current – Green (5A/Division)



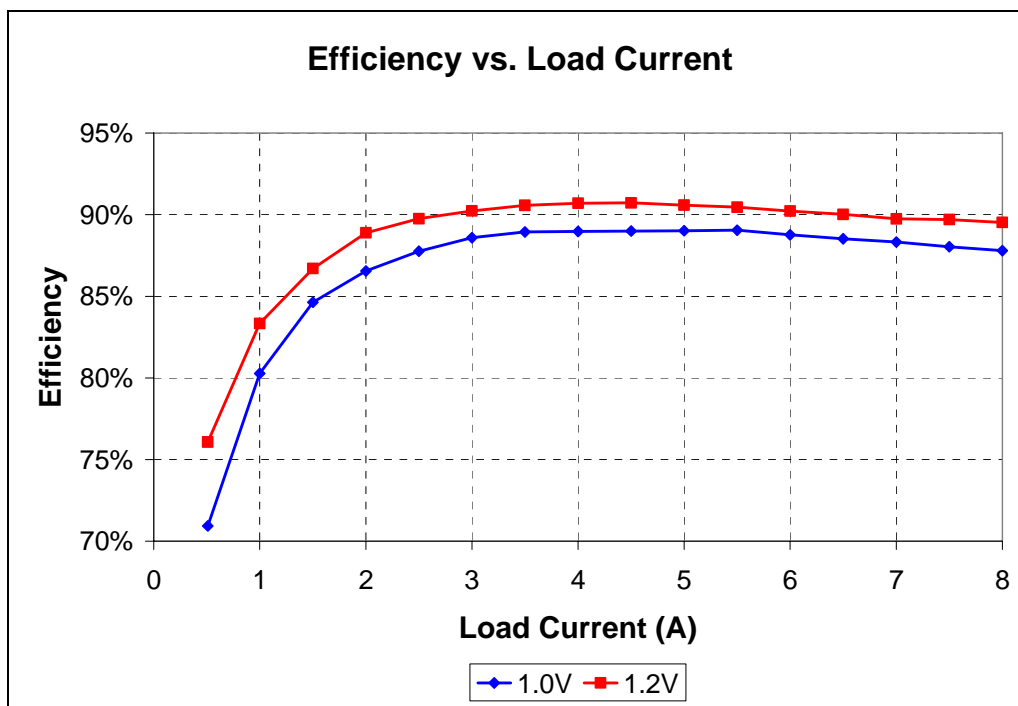
Channel 3 : 1.0V Output – Blue (AC Coupled; 100mV/Division)

Channel 4 : Output Current – Green (5A/Division)



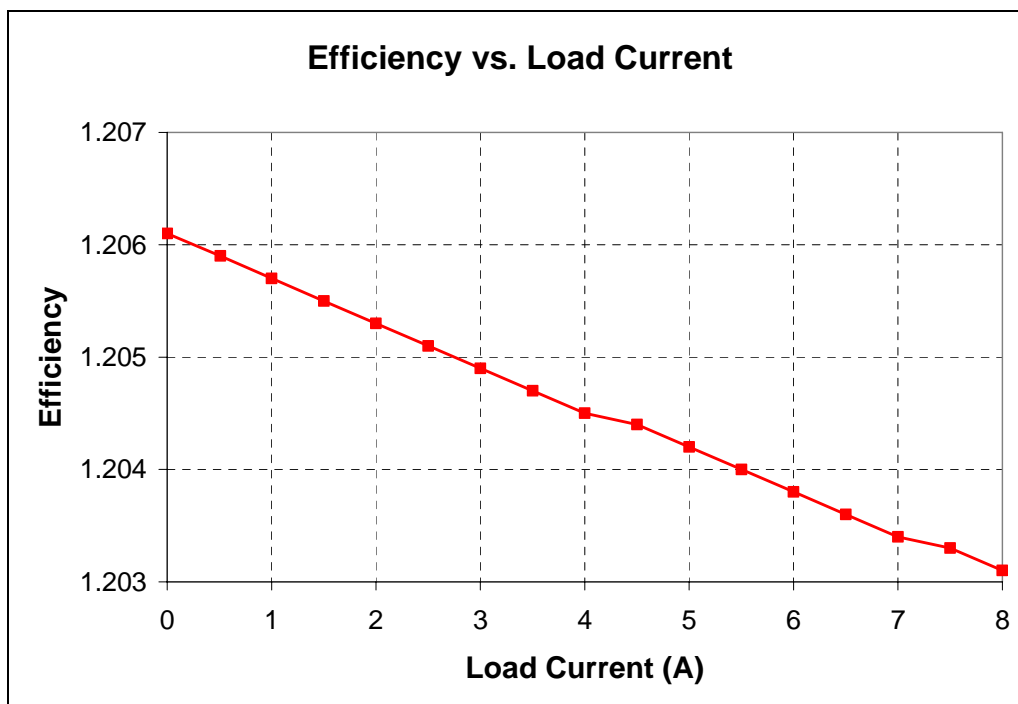
5 Efficiency

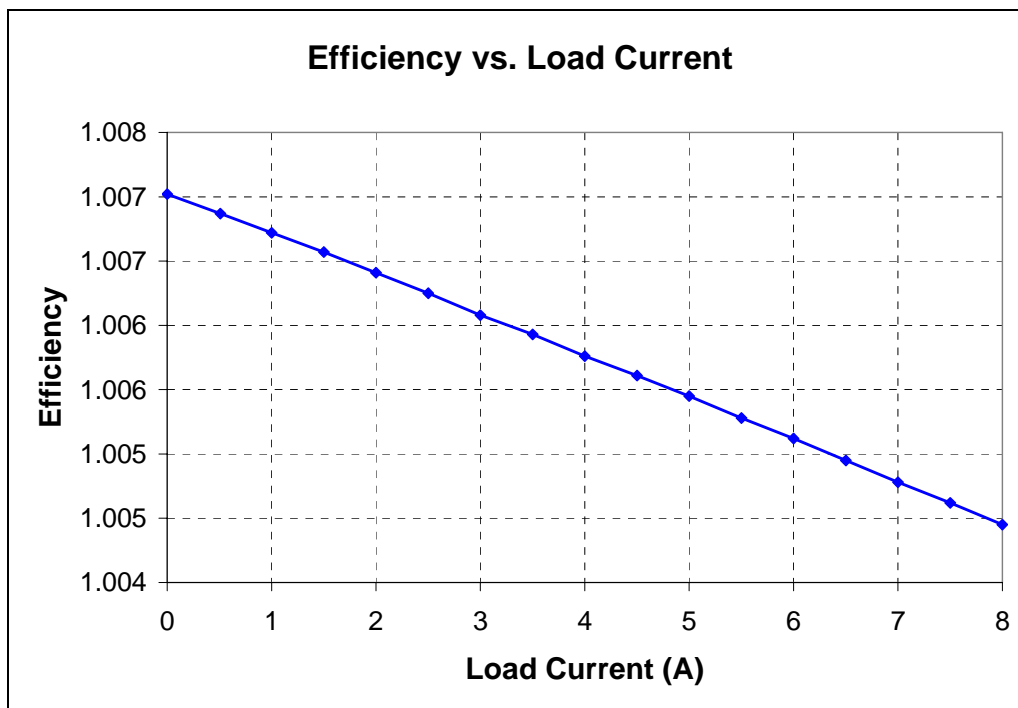
The efficiency for each converter is shown in the figures below.



6 Load Regulation

The load regulation is shown in the figures below.





7 Switching Waveforms

The plots below shows the switching waveforms. The input is 12V. The outputs are fully loaded. The time base is set to 2us/Division.

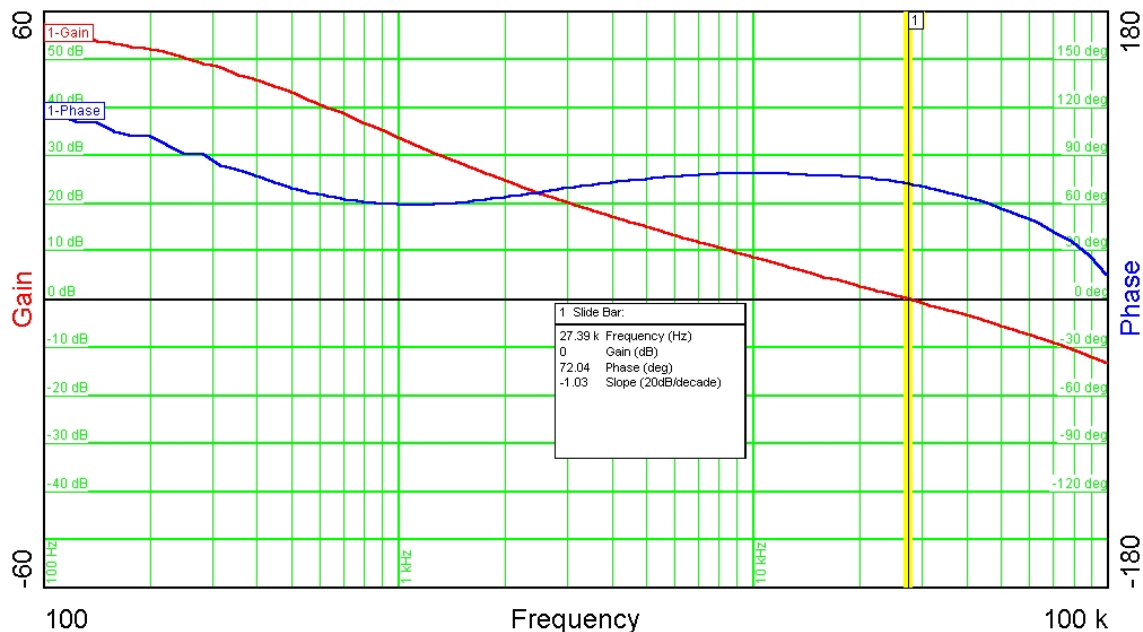
Channel 1 : 1.2V Switch Node – Yellow (5V/Division)

Channel 2 : 1.0V Switch Node – Pink (5V/Division)

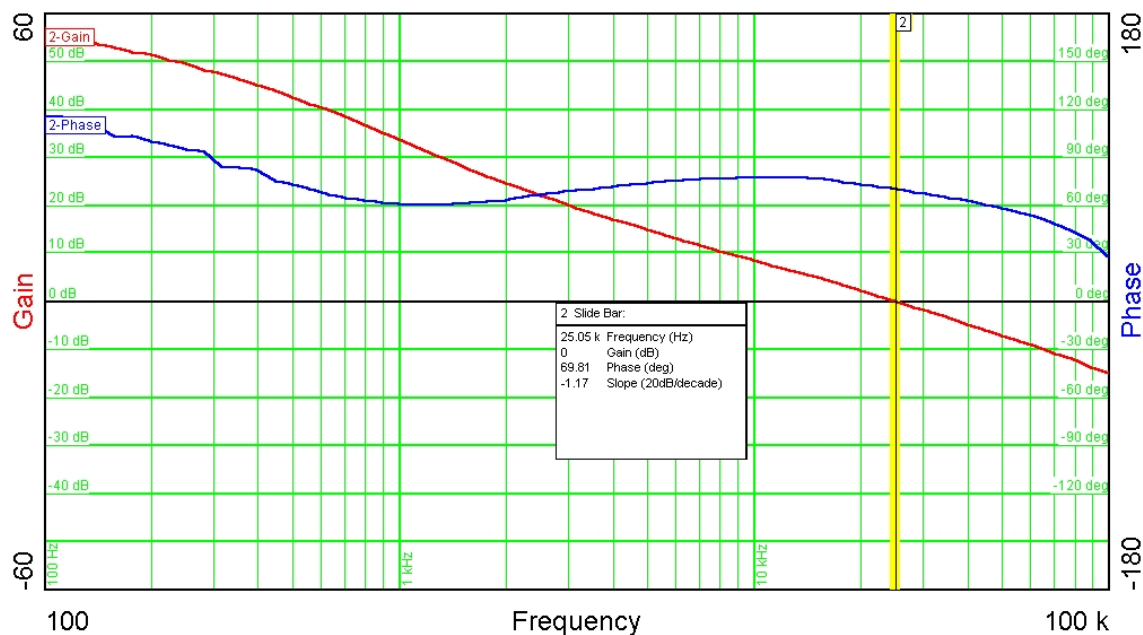


8 Frequency Response

The plots below show the loop response of the converters. The outputs are fully loaded. The input voltage is 12V.



1.2V Output



1.0V Output

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