

1 Startup

The photo below shows the -12V startup waveform. The input voltage is 5V, the output is lightly loaded. The timebase is set to 2ms/Division.

Channel 1 : -12V Output - Yellow (5V/Division)

Channel 2 : 5V Input - Pink (5V/Division)

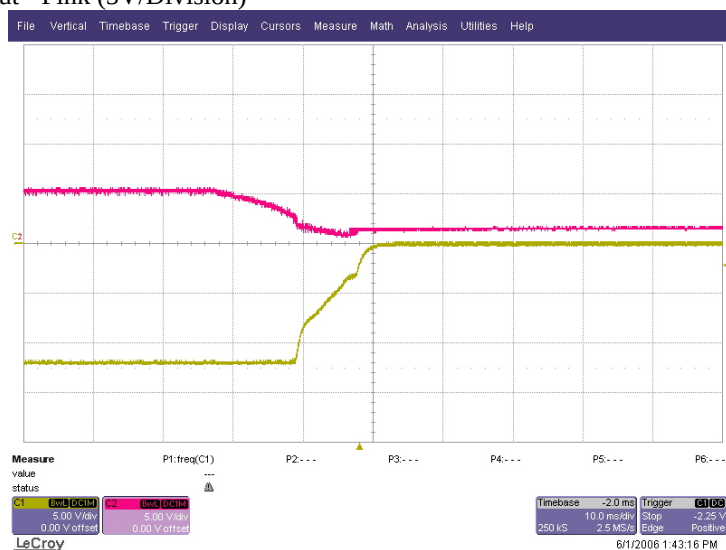


2 Shutdown

The photo below shows the -12V shutdown waveform. The input voltage is 5V, the output is fully loaded. The timebase is set to 10ms/Division.

Channel 1 : -12V Output - Yellow (5V/Division)

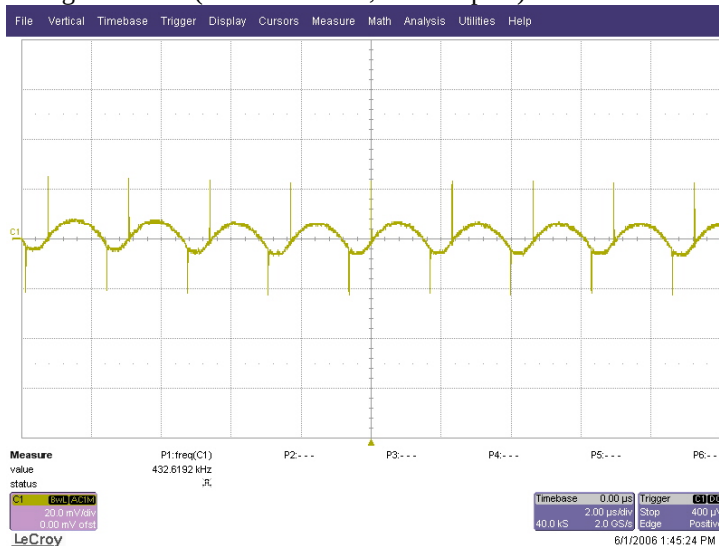
Channel 2 : 5V Input - Pink (5V/Division)



3 Output Ripple Voltage

The output voltage ripple is shown in the figure below. The input is 5V and the output is fully loaded (0.3A).

Channel 1 : Output Voltage - Yellow (20mV/Division; AC Coupled)

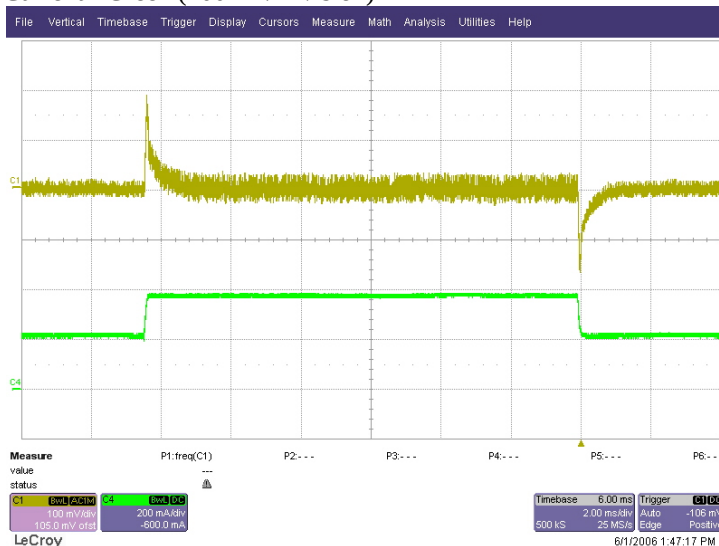


4 Load Transients

The photo below shows the transient response. The current is pulsed from 0.2A to 0.4A with a slew rate of 1A/us. The timebase is set to 50us/Division.

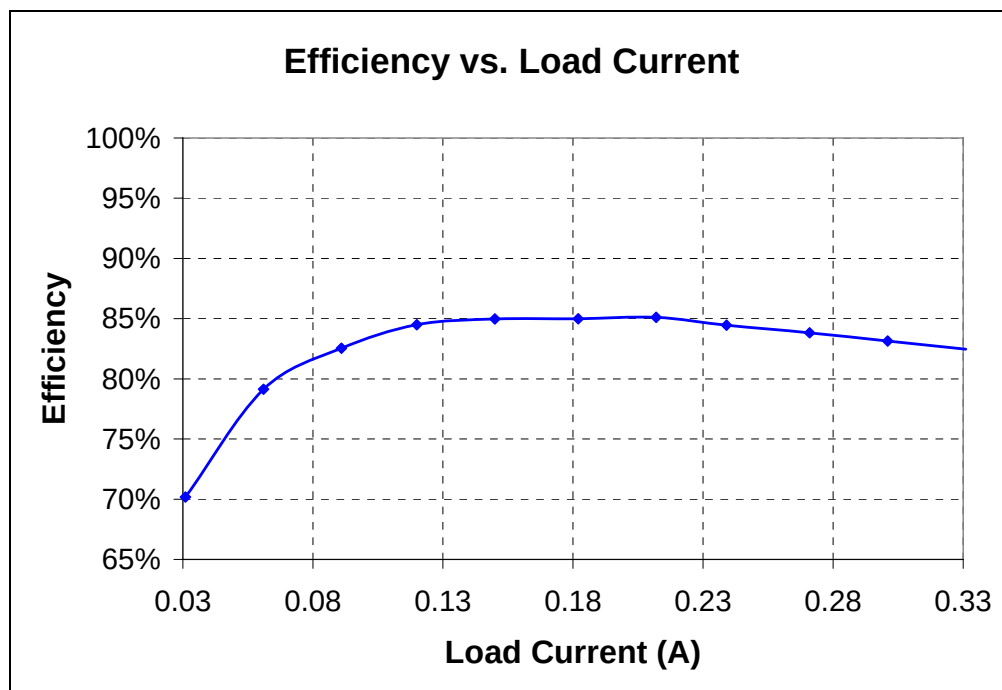
Channel 1 : -12V Output - Yellow (100mV/Division; AC Coupled)

Channel 4 : Output Current - Green (200mA/Division)



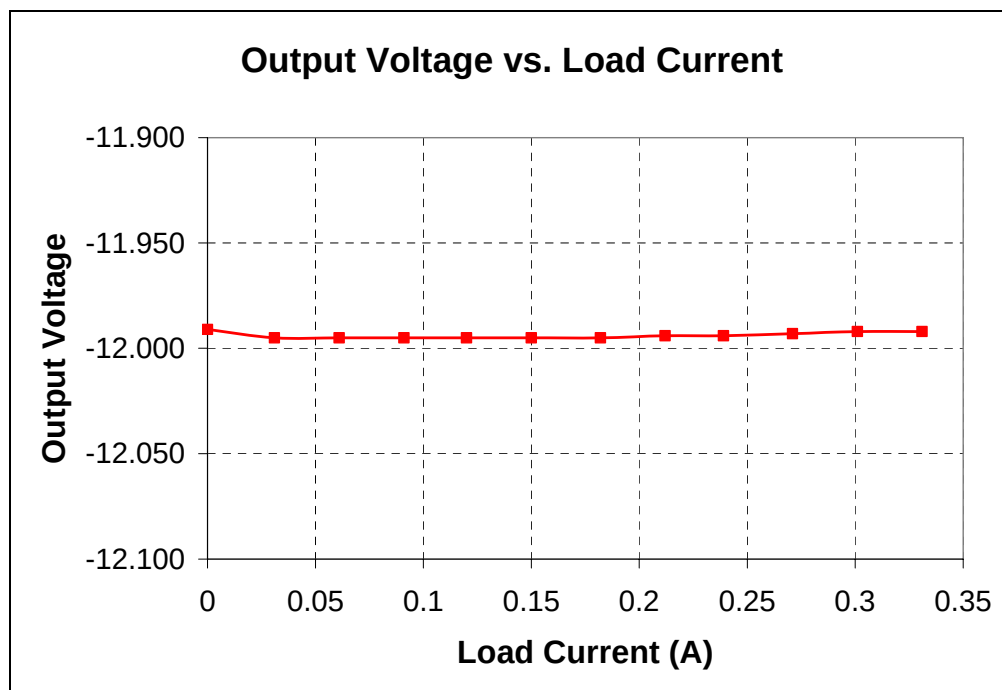
5 Efficiency

The efficiency of the converter is shown in the graph below. The input is set to 5V.



6 Load Regulation

The load regulation is shown in the figure below.

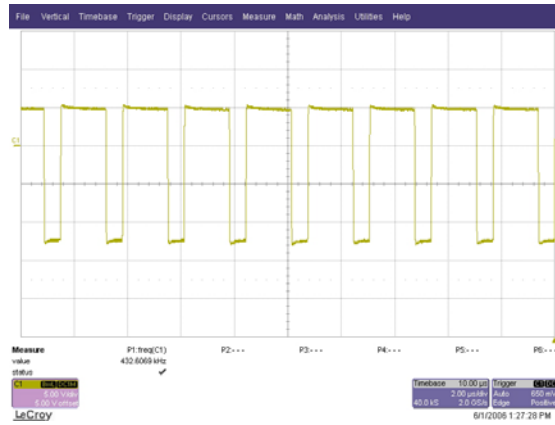


7 Switching Waveforms

The plot below shows the switching waveform for the converter. The input is 5V. The timebase is set to 2us/Division.



No load on the output



Full load on the output

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