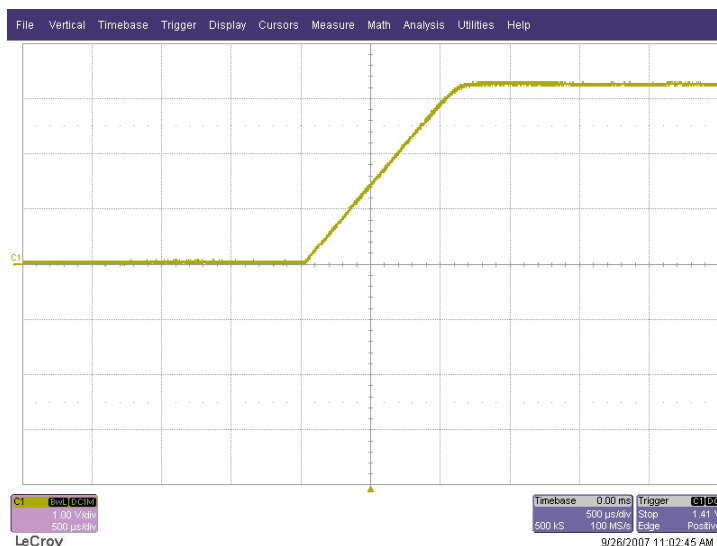


## 1 Startup

The photo below shows the startup waveform. The input voltage is 12.6V, the output is not loaded. The timebase is set to 500us/Division.

Channel 1 : 3.3V Output – Yellow (1V/Division)

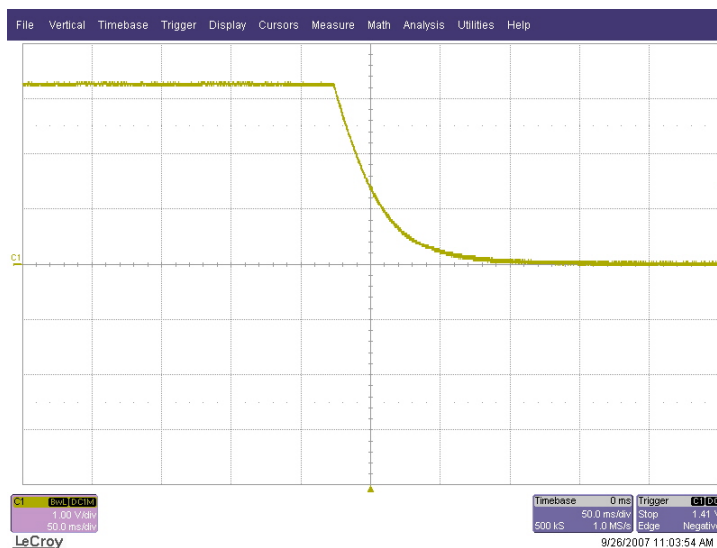


5V is applied

## 2 Shutdown

The photo below shows the shutdown waveform. The input voltage is 12.6V. The timebase is set to 20ms/Division. The output is unloaded. The supply is turned off by removing the 5V bias.

Channel 1 : 3.3V Output – Yellow (1V/Division)

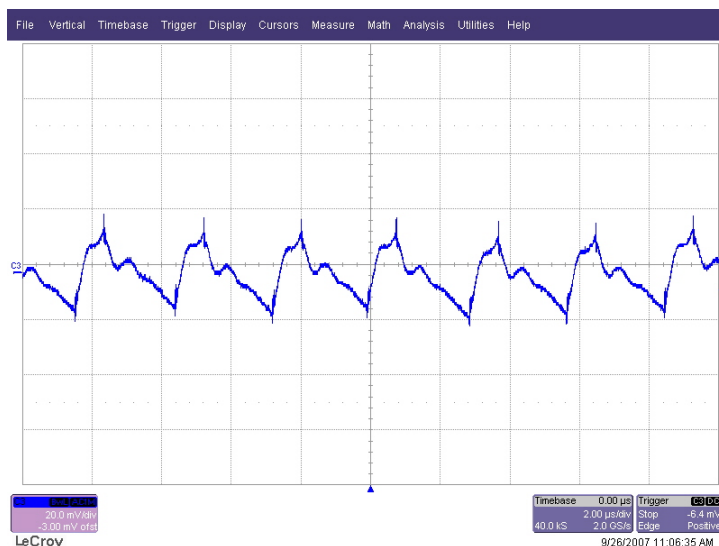


5V is removed

### 3 Output Ripple Voltage

The output voltage ripple is shown in the figure below. The input is 12.6V. The output is fully loaded. The timebase is 2us/Division.

Channel 3 : 3.3V Output – Blue (AC Coupled; 20mV/Division)

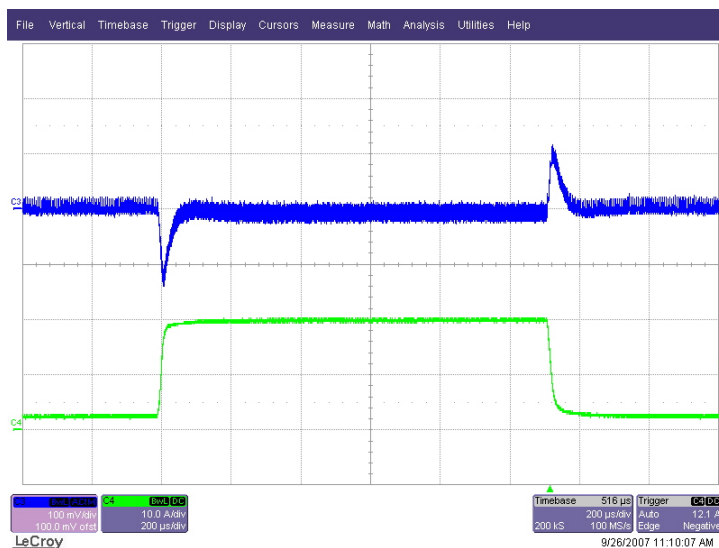


### 4 Load Transients

The photo below shows the transient response. The current is pulsed from 10% to 90% load. The timebase is set to 200us/Division.

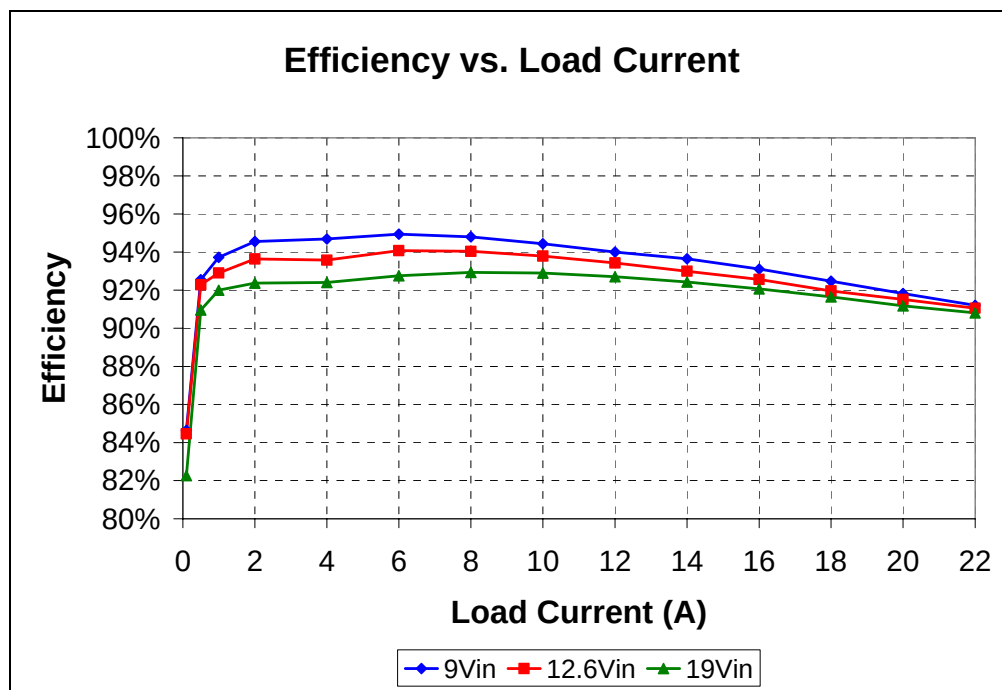
Channel 3 : 3.3V Output – Blue (AC Coupled; 100mV/Division)

Channel 4 : Output Current – Green (10A/Division)



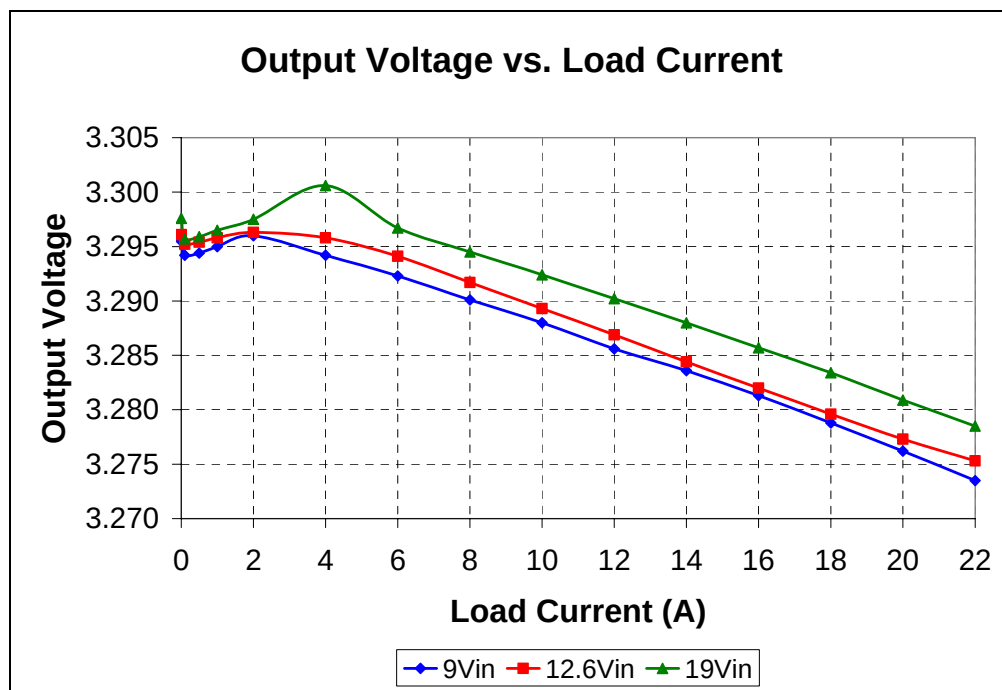
## 5 Efficiency

The efficiency of the converter is shown in the figure below.



## 6 Load Regulation

The load regulation is shown in the figure below.



## 7 Switching Waveforms

The plot below shows the switching waveform. The input is 12.6V. The output is fully loaded. The time base is set to 1us/Division.



3.3V Switch Node

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