

Project PI: Babak Fahimi
 Students: Mishel Mahmoodi
 Institution: UT Dallas
 Department: ECS - REVT

Testbed: Energy
 Conversion

Thrusts: Electrical

Objective: To efficiently
 convert dc voltage of a
 given frequency to
 another, more usable,
 frequency

Load	Mode			
Min Load	Synch.	8.95	8	9
	Buck	8.65	4	4
	Boost	3.60	5	6
Max Load	Synch.	1.79	39	45
	Buck	1.73	17	20
	Boost	0.72	23	26

Summary of Significant Findings:

- Lower average and rms currents
- Lower core losses in the inductor.
- Lower switching losses in the switches.

