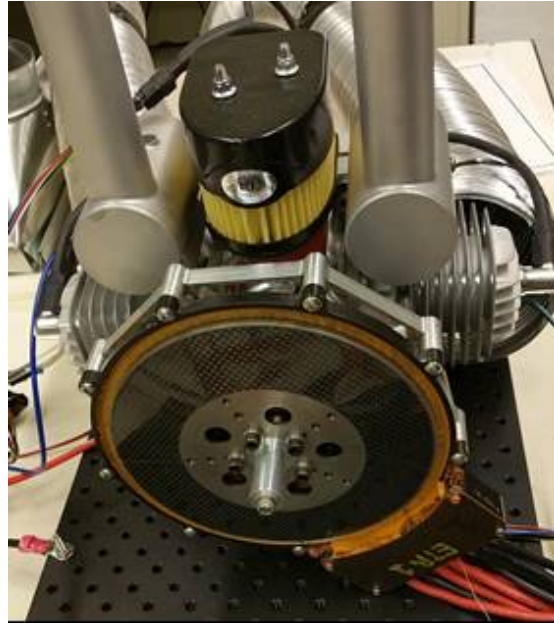




HYBRID UAV PROPULSION SYSTEMS



LaunchPoint Technologies 6000W Gen-Set
Rated 6000W continuous output at 7500 rpm

Parameter	Units	Value
Nominal bus voltage (@ 7500 rpm)	Vdc	60V
Continuous Power (@ 7500 rpm, sea level, 25C ambient)	W	>6000
Engine Fuel	Gasoline 40:1	premix
Combustion Cycle		2-stroke
Engine cooling requirement	~20 m/s	air
Fuel Consumption (@ 6 kW, 7500 rpm)	gm/kW*hr	tbd
Engine Mass (engine, intake, ECM, pump, muffler)	kg	2.72
System Mass (complete engine and alternator)	kg	~4.12
Alternator Specifications		
Efficiency (@ 6 kW, 7500 rpm)	percent	95%
Alternator cooling		air
Stator temp (@ 6 kW, 7500 rpm, 25C ambient, sea level)	Deg C	80
Max RPM	rpm	~12000
Max Power at Max RPM	kW	15
Mass (rotor, stator, frame)	kg	1.4

Preliminary Data Sheet – Specifications Subject to change