

LaunchPoint Technologies 1500W Hybrid UAV Power System



Rated 1500W continuous output at 8500 rpm

Parameter	Units	Value
Nominal bus voltage (@ 8500 rpm)	Vdc	28V
Continuous Power (@ 8500 rpm, sea level, 25C ambient)	W	1500
Engine fuel	40:1	premix
Engine Displacement	cc	35
Combustion Cycle		2-stroke
Engine cooling		air
Fuel Consumption Carbureted (@ 1.5 kW, 8500 rpm)	gm/kW*hr	815
Fuel Consumption EFI estimated (@ 1.5kW, 8500 rpm)		600
System Mass (engine, ignition, muffler, alternator, fan)	gm	1906
Alternator Specifications		
Efficiency (@ 1500W, 8500 rpm)	percent	93%
Alternator cooling		air
Stator temp (@ 1500 W, 8500 rpm, 25C ambient, sea level)	Deg C	90
Electronics Specifications		
Efficiency (@ 1500 W, 28V)		95%
Controller Rectifier mass	gm	500
Optional starter-alternator drive electronics	gm	350
(Preliminary Data sheet – Specification subject to change)		

