

# LAUNCHPOINT®

## ELECTRIC PROPULSION SOLUTIONS

### 5.5 kW Hybrid Power System 5.5 kW Peak / 5.0 kW Continuous



▼ The LaunchPoint® HPS055 Genset is a 5.5 kW, highly efficient, high specific power generator and hybrid electric power/engine controller system that utilizes patented electric machine and genset technology to enable extended range flight.

- Best-in-class power, efficiency and weight
- Long endurance, hybrid electric flight for UAV
- SmartPoint™ Control Software
- 3.5x greater power density than existing alternator electric machines
- Air-cooled engine, alternator and electronics
- Available today

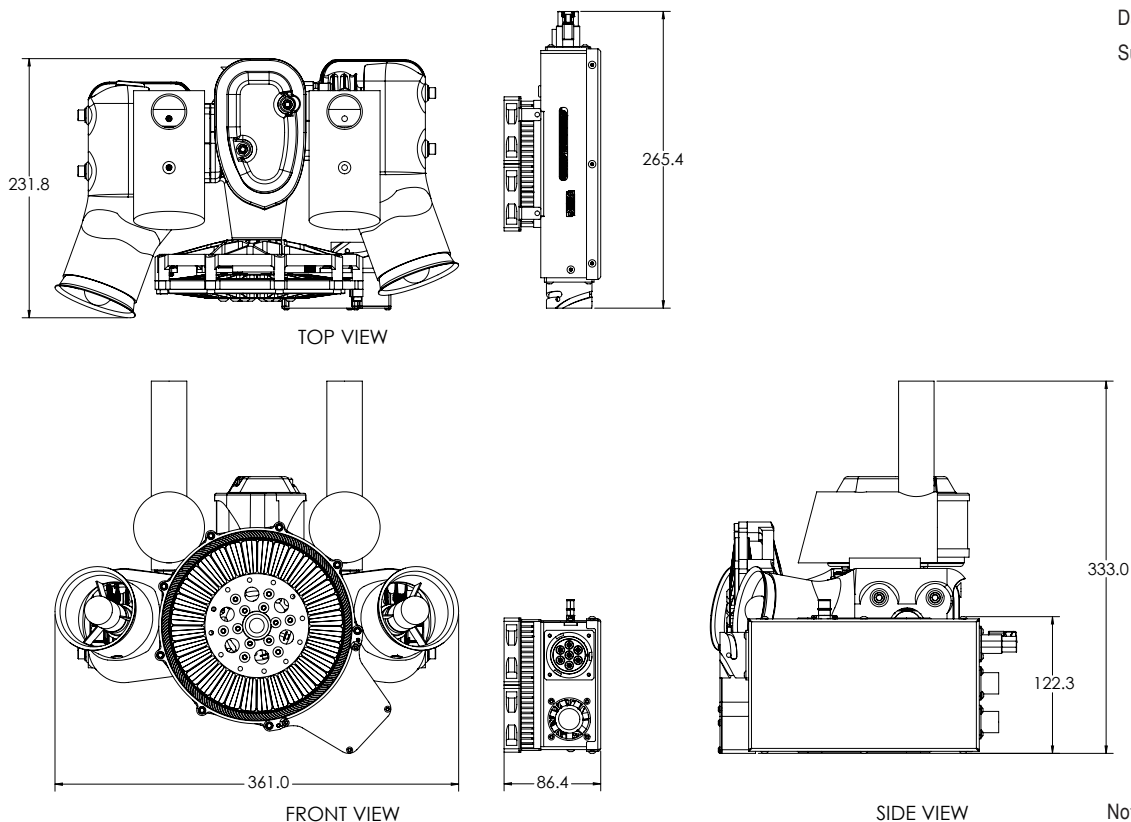
## Parameters and Specifications

Parameter	Units	Value
Nominal Bus Voltage (14S)	V DC	52
Continuous Power, 25 °C Ambient Sea Level	kW	5.0
Maximum Power, 25 °C Ambient Sea Level <sup>1</sup>	kW	5.5
Engine		DA150
Engine Fuel	40:1	Premix
Engine Combustion Cycle		2-Stroke
Engine Cooling		Air
Fuel Consumption at 5.5 kW	g/kW*hr	650–750 <sup>2</sup>
Complete System Weight	kg	9.5
<b>Alternator Specifications<sup>3</sup></b>		
Alternator Cooling		Air
Stator Temperature at 5.5 kW, 25 °C Ambient Sea Level	°C	175
Weight (rotor, stator, and frame)	kg	1.8

<sup>1</sup> Engine thermal limit dictates maximum time at maximum power level. Engine thermal limit heavily dependent upon application.

<sup>2</sup> Engine fuel consumption is application specific.

<sup>3</sup> Alternator specifications ONLY. Alternator electric machine is capable of more power than the base engine option can output.



Data Sheet Specifications  
Subject to Change

Notes  
1. Units are in mm

## 5.5 kW Hybrid Power System Features

- CAN communications to flight controller for monitoring system status
- Battery management system enables safe in-flight battery charging
- Self-starting
- Automatic throttle control on genset to match bus load and share power with battery
- Air-cooled

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