



## Electronic Fuel injected engines

HFE International develops and manufactures high-end propulsion systems for UAVs, drones, unmanned systems, and ground support equipment. Propulsion systems include fuel-injection and rotary systems with gasoline and multi/heavy fuel operation.



### DA 35 EFI UAV Engine :

Lead Time	4 -8 weeks
Displacement	35 cc, 2.14 ci
Power	2.1 kW, 2.8 hp
Weight (engine with intake)	1 kg, 2.2 lb
Weight (ECM)	98 g, 3.45 oz
Weight (Fuel Pump)	150 g, 5.29 oz
Standard Operating Speed	1,500 RPM to 8,200 RPM
Voltage	10 V to 15 V
Power Draw	1 Amp peak, 1 hour/1,000 mAh
Temperature Range	0° - 49° C, 32° - 120° F
Weight (500W Alternator System)	1.92 kg, 4.23 lb
Weight (muffler)	190 g, 6.7 oz



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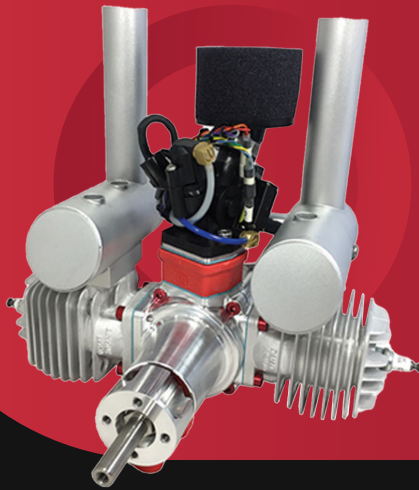
### DA 50 EFI UAV Engine :

Lead Time	4 -8 weeks
Displacement	50 cc, 3.05 ci
Power	2.9 kW, 3.9 hp
Weight (engine with intake)	1.5 kg, 3.3 lb
Weight (ECM)	98 g, 3.45 oz
Weight (Fuel Pump)	150 g, 5.29 oz
Standard Operating Speed	1,600 RPM to 7,000 RPM
Voltage	10 V to 15 V
Power Draw	1 Amp peak, 1 hour/1,000 mAh
Temperature Range	0° - 49° C, 32° - 120° F
Weight (500W Alternator System)	2.41 kg, 5.30 lb
Weight (muffler)	238 g, 8.4 oz



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## DA 70 EFI UAV Engine :

Lead Time	4 -8 weeks
Displacement	70 cc, 4.28 ci
Power	5.7 kW, 5 hp
Weight (engine with intake)	1.6 kg, 3.5 lb
Weight (ECM)	98 g, 3.45 oz
Weight (Fuel Pump)	150 g, 5.29 oz
Standard Operating Speed	1,900 RPM to 8,200 RPM
Voltage	10 V to 15 V
Power Draw	1 Amp peak, 1 hour/1,000 mAh
Temperature Range	-12° - 49° C, 10° - 120° F
Weight (500W Alternator System)	2.41 kg, 5.30 lb
Weight (muffler)	238 g, 8.4 oz



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## DA 100 EFI UAV Engine :

Lead Time	4 weeks
Displacement	100 cc, 6.1 ci
Power	5.5 kW, 7.4 hp
Weight (engine with intake)	2.5 kg, 5.57 lb
Weight (ECM)	98 g, 3.45 oz
Weight (Fuel Pump)	150 g, 5.29 o
Standard Operating Speed	1,200 RPM to 7,500 RPM
Voltage	10 V to 15 V
Power Draw	1 Amp peak, 1 hour/1,000 mAh
Temperature Range	-12° - 49° C, 10° - 120° F
Weight (500W Alternator System)	2.49 kg, 5.48 lb
Weight (muffler)	275 g, 9.7 oz



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## DA 120 EFI UAV Engine :

Lead Time	4 -8 weeks
Displacement	121 cc, 7.4 ci
Power	5.75 kW, 7.7 hp
Weight (engine with intake)	2.25 kg, 4.95 lb
Weight (ECM)	98 g, 3.45 oz
Weight (Fuel Pump)	150 g, 5.29 oz
Standard Operating Speed	1,200 RPM to 7,000 RPM
Voltage	10 V to 15 V
Power Draw	1 Amp peak, 1 hour/1,000 mAh battery
Temperature Range	-12° - 49° C, 32° - 120° F
Weight (500W Alternator System)	3.31 kg, 7.31 lb
Weight (muffler)	300 g, 10.5 oz



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### DA 150 EFI UAV Engine :

Lead Time	4 -8 weeks
Displacement	150 cc, 9.15 ci
Power	7 kW, 9.3 hp
Weight (engine with intake)	3.5 kg, 7.7 lb
Weight (ECM)	98 g, 3.45 oz
Weight (Fuel Pump)	150 g, 5.29 oz
Standard Operating Speed	1,800 RPM to 7,000 RPM
Voltage	10 V to 15 V
Power Draw	1 Amp peak, 1 hour/1,000 mAh
Temperature Range	- 12° - 49° C, 10° - 120° F
Weight (500W Alternator System)	3.32 kg, 7.32 lb
Weight (muffler)	375 g, 13.22 oz



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### DA 170 EFI UAV Engine :

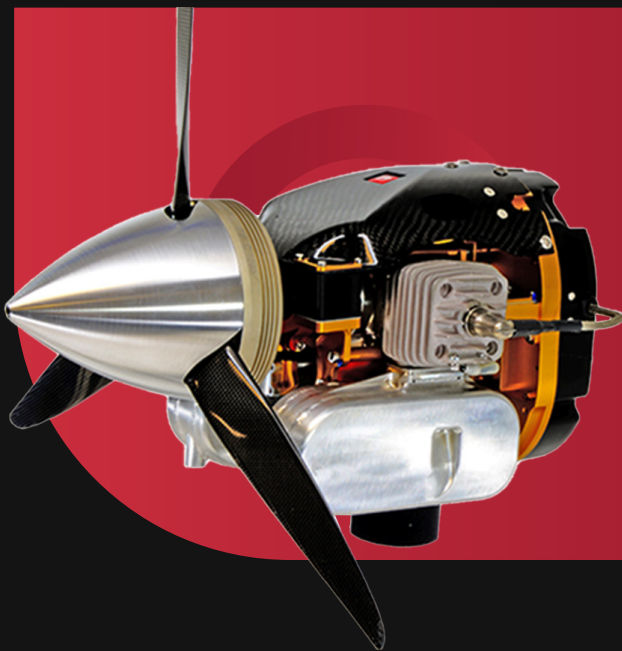
Displacement	170 cc 10.4 ci
Power	9.6 kW 12.8 HP
Weight (engine with intake)	3.6 kg, 8 lb
Weight (ECM)	85 g 2.9 oz
Weight (Fuel Pump)	88 g 3.1 oz
Standard Operating Speed	1500 RPM to 7000 RPM
Voltage	10 V to 15 V
Power Draw	1 Amp peak, 1 hour/1,000 mAh battery
Temperature Range	0 to 49° C, 32 to 120° F



# Gen Pod Systems

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## GenPod<sup>®</sup> 70cc LRU

Actual Displacement	70 cc, 4.27 in <sup>3</sup>
Momentary Peak Power @ rated RPM	4.5 kW @ 9000 RPM, 6.0 hp @ 9000 RPM
Max Continuous Power	3.71 kW @ 7000 RPM, 5 hp @ 7000 RPM
Peak Torque @ RPM	5 NM @ 7500 RPM, 3.7 ft-lb @ 7500 RPM
Cruise BSFC @ RPM	437 g/kW-hr @ 6000 RPM, 0.72 lb/hp-hr @ 6000 RPM
Standard Operating RPM Range	3000 - 7500 RPM
Full System Weight with Mufflers	5.06 kg, 11.15 lb
Full System Power to Weight Ratio	0.9 kw/kg, .54 hp/lb
Nominal Current Draw (12V)	0.5 A
Maximum Current Draw (12V)	1 A
Rated Ambient Minimum	-18° C, 0° F
Rated Ambient Maximum	49° C, 120° F
Time between Overhauls	300 hrs
Sound Level	91 dBA at 1 meter, 91 dBA at 3 feet





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## GenPod® 100cc LRU

Actual Displacement	100 cc, 6.1 in <sup>3</sup>
Momentary Peak Power @ rated RPM	6.1 kW @ 9000 RPM, 8.2 hp @ 9000 RPM
Max Continuous Power	5.5 kW @ 7000 RPM, 7.3 hp @ 7000 RPM
Peak Torque @ RPM	7.7 NM @ 7500 RPM, 5.7 ft-lb @ 7500 RPM
Cruise BSFC @ RPM	564 g/kW-hr @ 6500 RPM, 0.93 lb/hp-hr @ 6500 RPM
Standard Operating RPM Range	2500 - 7000 RPM
Full System Weight with Mufflers	5.54 kg, 12.2 lb
Full System Power to Weight Ratio	1.1 kw/kg, .67 hp/lb
Nominal Current Draw (12V)	0.5 A
Maximum Current Draw (12V)	1 A
Rated Ambient Minimum	-18° C, 0° F
Rated Ambient Maximum	49° C, 120° F
Time between Overhauls	300 hrs



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## GenPod® 120cc LRU

Actual Displacement	121 cc, 7.4 in <sup>3</sup>
Momentary Peak Power @ rated RPM	7 kW @ 8500 RPM, 9.38 hp @ 8500 RPM
Max Continuous Power	5.75 kW @ 6000 RPM, 7.7 hp @ 6000 RPM
Peak Torque @ RPM	9 NM @ 5500 RPM, 6.64 ft-lb @ 5500 RPM
Cruise BSFC @ RPM	550 g/kW-hr @ 6500 RPM, 0.904 lb/hp-hr @ 6500 RPM
Standard Operating RMP Range	3500 - 7000 RPM
Full System Weight with Mufflers	5.31 kg, 11.72 lb
Full System Power to Weight Ratio	1.31 kw/kg, 0.8 hp/lb
Nominal Current Draw (12V)	0.5 A
Maximum Current Draw (12V)	1 A
Rated Ambient Minimum	-18° C, 0° F
Rated Ambient Maximum	49° C, 120° F
Time between Overhauls	200 hrs