

4-Stroke Engine

GF40U2-FI

40cc



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SITE

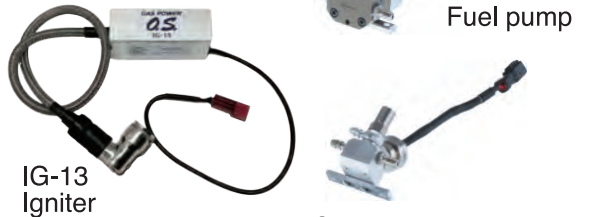
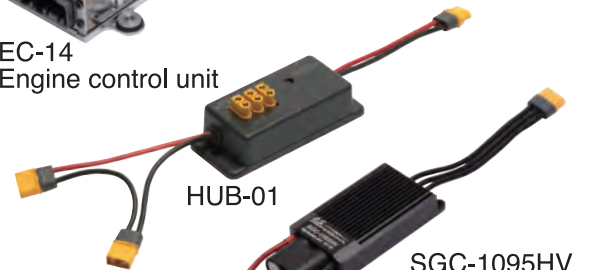
Product
introduction



GF40U2-FI Spec

Name	GF40U2-FI
Category	Fixed wing UAV engine
Engine type	Air cooled 4stroke single-cylinder OHV engine
Displacement(Bore x Stroke)	39.96cc(40mm x 31.8mm)
Rotating direction	Left (viewed from shaft output side)
Practical RPM range	1800~8000rpm
Starting method	Self starter
Fuel	Oil mixed regular gasoline
Fuel system	Electronically controlled fuel injection system
Lubrication	By oil mixed fuel
Output	2.1kW[2.9PS]
Fuel consumption	Check our website
Generator output	Maximum 200W(10 minutes)/Continuous 120W
Weight	2710g(including generator) 940g(others)
Ignition type	CDI battery ignition
Spark plug	M10mm(NGK CM-6)

EC-14
Engine control unit



■ Features

- Based on the GF40U-FI, a 4-stroke single cylinder 40cc engine with an electronically controlled fuel injection system, which was previously sold, a new starter generator system is integrated.
- A 200W class generator, which is a starter generator mounted on the crankshaft at the rear of the engine.
- A crankcase pressure supercharging system that utilizes changes in the volume of the crankcase as the piston moves up and down has been adopted. This achieves both the low fuel consumption of a 4 stroke engine and the high output of a 2 stroke engine.
- The ECU(engine control unit) equipped with a 32-bit CPU performs optimal management of the engine based on throttle opening, engine rotating speed, crank angle, atmospheric pressure and cylinder head temperature.
- The ECU provides its parameter information such as engine rotating speed, cylinder head temperature, throttle opening, and atmospheric pressure in real time via serial communication and CAN.
- The fuel injection system does not require a regulator valve and a return hose from the engine, the sensor reads the fuel line pressure directly, and the ECU controls the fuel pump to achieve a constant supply of fuel. This system adopts from "GF40U-FI".