

4-Stroke Engine

GF80TU2-FI 4 Stroke fixed wing UAV engine

80cc

GE
Power generation system

S
Starter equipped

CAN
CAN compatible

E
Electronically controlled fuel injection fuel device



※Photo shown Prototype



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4-Stroke 80cc equipped with starter generator

- Since the launch in 2020, well received 80cc, 4-stroke, 2 cylinder GT80TU-FI has received upgrades.
- The newly developed EC-23 is our second-generation Engine Control Unit (ECU). In addition to providing optimal engine management, it also controls power generation. This integration has enabled a weight reduction of approximately 490 g in auxiliary components. While this upgrade have resulted in a 100 g increase in the engine unit itself, achieved weight reduction as an overall system.
- The EC-23 outputs real time ECU parameter information such as engine RPM, cylinder head temperature, throttle opening, atmospheric pressure, generated power, and power consumption via serial communication and CAN. It also supports FUTABA S.BUS2 and RS485 communication.

GF80TU2-FI Spec

Name	GF80TU2-FI
Category	Fixed wing UAV engine
Engine type	Air cooled 4stroke 2-cylinder OHV engine
Displacement(Bore x Stroke)	79.92cc(40mm x 31.8mm) ×2-cylinder
Rotating direction	Left (viewed from shaft output side)
Practical RPM range	1,800~8,000rpm
Starting method	Self starter
Fuel	Oil mixed regular gasoline (50 : 1)
Fuel system	Electronically controlled fuel injection system
Lubrication	By oil mixed fuel
Output	4.3kW [5.8PS] (schedule)
Generator output	Maximum 200W(10 minutes)/Continuous 120W
Voltage	48V
Weight	3770g(including generator) 990g(others)
Ignition type	CDI battery ignition
Spark plug	M10mm(NGK CM-6)

The specifications are subject to alteration for improvement without notice.

GH80TU2-FI Main auxiliary components

