AC Generator
Model 5071

Model 5071 electrical generation system consists of a generator, generator control unit (GCU) and current transformer assembly (CTA). This equipment has been developed for a close air support aircraft. The generator is pad-mounted on an auxiliary power unit.

The air-cooled generator is a brushless wound rotor, self-excited machine. An internal PMG supplies external contactor control and generator excitation. The generator drive shaft incorporates a shear section designed to shear at a torque of 500 lb-in, ± 10 percent.

The GCU regulates the output voltage of the generator and implements the listed protective functions. The CTA senses currents remotely to enable differential current protection.

Specifications

Voltage: 120/208 VAC
Speed Range: 10,800 to 13,200 RPM

Overspeed: 15,000 RPM
Efficiency: 85% at rated load

Rating: 10 KVA
Frequency: 400 HZ
Cooling: Internal fan

Regulation: 112 VDC to 118 VDC
Weight: 26.5 lbs
Ambient: -54 C to 82 C
Altitude: 0 to 40,000 ft
Power factor: .75 lag to .95 lead

Compliance:
- MIL-STD-704A
- MIL-STD-810B
- MIL-STD-461A
- MIL-M-38510
- MIL-G-6099