

ELECTRO KINETICS DIVISION

DATA SHEET

SPECIFICATIONS

MODEL #5502 DC GENERATOR 12 KW - 8000 RPM

OUTPUT

VOLTAGE: 30 VDC

SPEED RANGE: 5,500-9,000 RPM **OVERSPEED:** 10,000 RPM

RATING:

CONTINUOUS 400A

OVERLOAD 600A, 2 MINUTES

800A, 5 SECONDS

EFFICIENCY: 70% MIN AT RATED POWER **COOLING:** SELF-COOLED, INTERNAL FAN

AIR FLOW: ADE TO DE* **AMBIENT:** -54°C TO +71°C

ALTITUDE: 0 TO 20,000 FT

BEARINGS: TWO

WEIGHT: GEN: 27.5 LBS GCU: 2.7 LBS

OVERVOLTAGE

PROTECTIVE OVERVOLTAGE UNDERVOLTAGE OVERCURRENT

FEEDER FAULT

SHORTED FIELD PROTECTION

OPEN POR DETECTION FAILED DIODE DETECTION

COMPLIANCE: MIL-G-6162

MIL-STD-454 MIL-STD-704 MIL-STD-5400 MIL-STD-461

*ANTI DRIVE END TO DRIVE END



DESCRIPTION

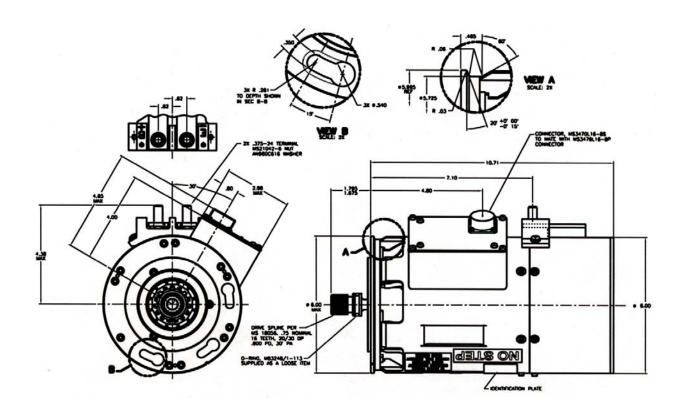
Model 5502 comprises a 12 KW Generator and complementary Generator Control Unit (GCU).

The generator is a brushless, self-exciting, three-in-one unit that provides main DC power to the Bell AH-1W gunship, over a speed range of 5,500-9,000 RPM.

The GCU regulates the voltage of the generator. Regulation is accomplished by pulse width modulating the control field. The GCU also implements protective and supervisory functions as listed in the specifications table.



OUTLINE DETAILS





CIFIC ELECTRO KINETICS DIVISION