

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
PROTECTIVE FUNCTIONS:	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



