DATA SHEET

SPECIFICATIONS

MODEL #5624
PERMANENT MAGNET ALTERNATOR

LOAD/SPEED CHARACTERISTICS

SPEED (RPM)	VOLTAGE	LOAD
84,000	190 VDC MAX	6.3 ADC MIN
140,000	405 VDC MAX	NO LOAD

OVERSPEED: 154,000 RPM
EFFICIENCY: 85% AT RATED LOAD

ELECTRICAL: ISOLATED 3 PHASE WYE WINDING

TEMPERATURE: -50°F TO 120°F
COOLING: CONVECTION/CONDUCTION
ALTITUDE: 0 TO 50,000 FT.

COMPLIANCE: MIL-STD-461B

WEIGHT: ROTOR 0.30 LBS
STATOR 0.42 LBS

DESCRIPTION

Model 5624 provides electrical power for a missile system powered by a Technical Directions turbine engine.

The unit is supplied as a rotor and stator set that becomes completely integrated within the TDI turbine.

The stator comprises an epoxy-bonded stator stack wound with a "wye"-connected, three phase winding.

The rotor comprises four radial magnets bonded onto a hub and retained by a high strength sleeve.

OUTLINE DETAILS