# DATA SHEET

## SPECIFICATIONS

## MODEL #5342 PERMANENT MAGNET ALTERNATOR

### LOAD/SPEED CHARACTERISTICS

| SPEED (RPM) | VOLTAGE | LOAD |
|---|---|---|
| 6,850 | 78.5 $V_{RMS}$ MAX | OPEN CIRCUIT |
| 18,240 | 208.5 $V_{RMS}$ MAX | OPEN CIRCUIT |
| 18,240 | SHORT CIRCUIT | 3.85 $A_{RMS}$ MAX |

**OVERSPEED:** 20,728 RPM FOR 1 MINUTE

**ELECTRICAL:** 3 ISOLATED SINGLE PHASE WINDINGS

**WEIGHT:** ROTOR 0.80 LBS MAX
STATOR 2.70 LBS MAX

**TEMPERATURE:** -65°F TO 350°F

**COOLING:** CONVECTION/CONDUCTION

**ALTITUDE:** 0 TO 50,000 FT.

**COMPLIANCE:** MIL-STD-461B

## DESCRIPTION

Model 5342 provides electrical power for a FADEC system used on a General Electric engine. The alternator comprises a rotor and stator set.

The rotor is a sleeved, segmented unit employing high energy magnets. The stator comprises epoxy bonded laminations and four isolated single phase windings. An aluminum housing locates the stator and interfaces with the mounting pad.

The alternator is gear driven from an engine accessory gear box.

## OUTLINE DETAILS