

DATA SHEET
SPECIFICATIONS
**MODEL #5590
PERMANENT MAGNET
ALTERNATOR**
LOAD/SPEED CHARACTERISTICS

SPEED (RPM)	VOLTAGE	LOAD
6,983	34 VDC	3.6 ADC MIN
13,966	SHORT CIRCUIT	4.8 AAC MAX

OVERSPEED: 16,759 RPM FOR 1 MINUTE (photo pending)

ELECTRICAL: DUAL REDUNDANT ISOLATED
3 PHASE WYE WINDINGS WITH
5 REDUNDANT SINGLE PHASE
SPEED WINDINGS

WEIGHT: ROTOR 0.90 LBS MAX
STATOR 1.32 LBS MAX

TEMPERATURE: -65°F TO 350°F

COOLING: CONVECTION/CONDUCTION

ALTITUDE: 0 TO 50,000 FT.

COMPLIANCE: MIL-STD-461B

DESCRIPTION

Model 5590 provides electrical power for a FADEC system used on the PW308A, a Pratt & Whitney Canada commercial aircraft engine.

The rotor is a sleeved, segmented unit employing high energy magnets. The stator comprises epoxy bonded laminations and dual redundant three phase windings. A stainless steel housing locates the stator and interfaces with the mounting pad.

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

OUTLINE DETAILS