## **DATA SHEET**

## SPECIFICATIONS

## MODEL #5571 AC GENERATOR 25KVA - 12,000 RPM

VOLTAGE: PHASE: FREQUENCY: POWER FACTOR: REGULATION: SPEED RANGE:	115/200 VAC THREE 400 HZ 0.85 LAGGING TO UNITY 114 TO 116 VRMS LINE to NEUTRAL 9,420-12,400 RPM	
CONTINUOUS		
RATING:	25 KVA CONTINUOUS	DESCRIPTION
OVERLOADS:	20.5 KVA 9900 - 9420 RPM 30 KVA 5.0 MINUTES 45 KVA 20 SECONDS 50 KVA 7.0 SECONDS 3 PER UNIT 7.0 SECONDS MIN.	Model 5571 Electrical Power Generation System consists of an AC generator, a generator control unit (GCU) and a remote current transformer assembly (CTA).
EFFICIENCY:	85% AT RATED LOAD	This wide speed range, variable frequency system is used on the BA609 tilt rotor aircraft primarily as a
COOLING: AMBIENT:	-55°C to +71°C	power source for the rotor and nacelle de-icers. The generator is configured as a three- phase, four-wire AC machine with an
WEIGHT:	GEN 33.9 LBS GCU 3.0 LBS CTA 0.5 LBS	exciter and integral PMG to achieve brushless operation, self-excitation and precise voltage control. The PMG is oversized, featuring two, thermally
PROTECTIVE FUNCTIONS:	OVERVOLTAGE UNDERVOLTAGE UNDER FREQUENCY FEEDER FAULT OVERCURRENT CURRENT LIMITING OPEN POINT OF REGULATION PHASE SEQUENCE DETECTION BUILT IN TEST	fro generator excitation and the other as an independent source for the flight control computer. The GCU regulates the voltage for the generator, monitors system health and performance, controls the system power contactors and provides protective functions, as listed.
COMPLIANCE:	MIL-G-21480 DO-160C MIL-E-5400 MIL- STD-454	The current transformer assembly (CTA) is used by the system to protect against feeder faults and differential currents.

## **OUTLINE DETAILS**





GENERATOR



GENERATOR CONTROL UNIT