DATA SHEET

SPECIFICATIONS

MODEL #5521
AC GENERATOR
10KVA - 12,000 RPM

VOLTAGE:	115/200 VAC
PHASE:	THREE
FREQUENCY:	400 HERTZ
POWER FACTOR:	0.75 LAG TO UNITY
REGULATION:	114 TO 116 VRMS LINE to NEUTRAL
SPEED RANGE:	11,100-12,900 RPM
OVERSPEED:	15,000 RPM
CONTINUOUS RATING:	10 KVA CONTINUOUS
OVERLOADS:	12 KVA 2.0 MIN 16 KVA 5.0 SEC 3 PER UNIT SHORT CIRCUIT CURRENT
EFFICIENCY:	80% AT RATED LOAD
COOLING:	INTERNAL FAN
AMBIENT:	-55°C to +66°C
WEIGHT:	GEN 20.5 LBS GCU 1.5 LBS CTA 0.25 LBS
PROTECTIVE FUNCTIONS:	OVERVOLTAGE UNDERVOLTAGE UNDER FREQUENCY FEEDER FAULT
COMPLIANCE:	MIL-G-21480A MIL-E-5272 MIL-E-5400 MIL-E-81910 MIL-STD-454 MIL-STD-461 MS-33543

DESCRIPTION

Model 5521 Electrical Power Generation System comprises an AC generator, a generator control unit (GCU) and a remote current transformer assembly (CTA).

The 400-hertz, alternating current, three phase, four wire generator is a self-excited, self-cooled, brushless design. The machine incorporates a permanent magnet generator (PMG) and an exciter generator for self excitation, brushless operation and precise output voltage control.

The GCU regulates the generator voltage and monitors the output of the system. It also controls the system power contactor and provides protective functions to the system, as listed.

The current transformer assembly (CTA) is used by the system to protect against situations involving feeder faults and differential line currents.

OUTLINE DETAILS