



# **GENERATOR SET ENGINE AND ALTERNATOR PARAMETERS**

## **1 ENGINE**

The engine conforms to Accuracy Class A, which is the highest requirement of governing accuracy specified in BS5514 (ISO3046) as follows:

### **1.1 PARAMETERS OF STEADY STATE BEHAVIOUR**

1.1.1 Steady state speed band: power > 25% : less than 0.8% Hz variation  
power < 25% : less than 1.0% Hz variation

1.1.2 Speed droop : less than 5.0% Hz variation

### **1.2 PARAMETERS OF DYNAMIC BEHAVIOUR**

1.2.1 Application of 100% load : less than 10% frequency drop

1.2.2 Removal of 100% load : less than 10% frequency increase

1.2.3 Recovery time : less than 8 secs

## **2 ALTERNATOR**

The alternator conforms to Voltage Regulation Grade VR2.32, which is the highest requirement for voltage control specified in BS5000.

### **2.1 PARAMETERS OF LOAD APPLICATION AND REMOVAL**

2.1.1 Application of 100% load : less than 15% transient voltage drop

2.1.2 Removal of 100% load : less than 15% transient voltage increase

2.1.3 Maximum recovery time : less than 1 sec