

Consultant's Corner: Specification: Standby Engine Generator



consultants corner

Part 1 - GENERAL

1.01 STANDBY ENGINE GENERATOR

The installation of a standby electric power system shall include a Caterpillar or Olympian _____ Series electric generator set or equal. The rating of the standby generator shall be ___KW, ___ KVA at ___/___V, 0.8 power factor, ___ phase, 60 Hertz. The system shall be a package of new and current equipment consisting of:

- a) An engine driven electric generating set to provide standby power.
- b) An engine start/stop solid state system mounted on the generating set.
- c) An automatic load transfer control to provide automatic starting and stopping of the engine and switching the load.
- d) Mounted accessories as specified.

1.02 RESPONSIBILITY

Each generator set shall be built, tested and shipped by the manufacturer, who has been regularly engaged in the production of the engine alternator sets and associated controls for a minimum of ten years so there is one source of supply and responsibility.

1.03 MANUFACTURER QUALIFICATION

Firm regularly engaged in manufacturing and design of engine generator sets for not less than ten years. The firm shall have produced engine generator sets that have been in continuous satisfactory operation for not less than three years in similar service. Manufacturer must have a local service firm, that has been factory authorized in the local area of responsibility.

1.04 MANUFACTURER'S REQUIREMENTS

Single manufacturer responsibility for the complete engine generator set including the manufacture of the engine and/or the alternator, building of set, factory test, factory warranty and shipping. Coordinating between manufacturer, distributor and contractor is essential.

The manufacturer shall have printed literature and brochures describing the standard series offered (not a one of a kind fabrication). The manufacturer shall provide schematic and wiring diagrams for the complete standby power system.

1.05 SUPPLIER QUALIFICATION

Firm engaged in supervising installation of and servicing engine generator sets. Firm maintains a factory authorized service organization with factory trained service technicians. Firm must be domiciled within a 200 mile radius of the project, maintain stock of standard spare parts and offer 24 hour service availability, 7 days a week.

1.06 Acceptable Manufacturers

Caterpillar, Olympian, Fairbanks Morse, Kato-light