



Scope of Supply Diesel Generator Installed on Base Frame – MANUAL Start

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Industrial diesel engine:

Water cooled , 4 stroke, 1500 rpm, direct injection complete with heavy duty radiator, cooling fan drive, fuel lift pump, fixed speed governor to Class A1, starter motor, battery charging alternator, air, oil and fuel filters with replaceable elements. Built to comply with ISO 3046, BS 5514 and DIN 6271. Fan guards fitted as standard. Water jacket heaters installed as standard.

Alternator:

Directly coupled to engine by means of an SAE flange to minimise torsional vibration and to provide smooth running of the set. Alternator is of brush less, Class H insulated for optimum performance in tropical environment, single bearing, self-exciting, self regulating and drip-proof type (IP 23) and include under speed protection. IEC34-1, CEI 2/3, NF51, 100, 111, VDE0530, BS4900 / BS5000 standards applied. Voltage regulation accuracy is maintained within +/-1% with load from 0 to 100%, speed from 2% to 5% and power factor range from 0.8 to 1 and balanced load. The rotor system is dynamically balanced to minimise vibration. Ventilation is provided by a shaft mounting centrifugal fan. Alternator screen protected enclosure is provided.

Mounting arrangement:

The engine and alternator will be mounted as a whole on a heavy duty fabricated steel base frame, complete with anti-vibration mounting pads for fixing between base frame and ground. Crane lifting arrangements are included.

Manual Control panel:

Vibration isolated control panel comprises protection fuses, Manual control module with adjust and control of 23 various parameters with LED status indicators, emergency stop button, Manual Start selector switch, Gen selector switch and complete internal wiring to high standards covering terminals, relays, fittings and cables are clearly identified by numbers or named plates.

Fuel tank:

Base frame mounted bunded daily fuel tank is provided with diesel generator sets and it is complete with essential accessories comprising: filler, breather, feed and return lines, dial or tube type contents gauge. Over 700kVA a separate bunded fuel tank is supplied.

Exhaust:

Industrial type silencer(s) rated at 65dba @ 1meter installed within acoustic enclosure.

Batteries:

Heavy duty dry charged battery pack provided.

Documents:

Operation and Maintenance manuals (1set), and circuit diagram, test report supplied with each set.

Testing:

All Ability Power Limited generator sets are quality controlled and checked through various stages of assembly and finally load-tested and type plate fixed and certified before dispatch to ensure customer satisfaction.

Finish:

Generator sets are sprayed to Industrial standards.

Warranty:

Each generator set and components are fully guaranteed for defects in material and workmanship for a period of 12 months from the date of commissioning. Warranty is limited for a period of up to 18 months after the despatch date.