

"New Factory Warranted", Rebuilt & Used Diesel Engines, Generators, Power Units, Torque Converters, etc.

### **OUTPUT RATINGS**

The following 3 phase ratings are available:

50Hz	415/240V 230/115V	400/230V 220/110V	380/220V	240/120
60Hz	440/254V 240/120V	416/240V 230/115V	400/230V 230/110V	380/220V

Yanmar TNE range generator specification diesel engine (technical details are supplied on the reverse of this sheet). Lubricating oil drain valve fitted as standard on acoustic canopy variants. EPA approved versions are available.

Governor Compliant with BS5514, Class A1.

Electrical System
12 Volt DC. Energised to run shutdown solenoid. Oil pressure and water temperature shutdown via. Senders to control module.

### ALTERNATOR

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Newage alternators have been carefully selected to match the overload performance of the engine and incorporate the following; screen protected and drip-proof, self regulating brushless alternator with fully interconnected damper windings. ICO6 cooling system and sealed-for-life bearings. Twelve wire re-connectable windings provide a winder property and page voltages. windings provide a wide range of 3 phase voltages.

Insulation System
The insulation system is Class H. All windings are impregnated in either a triple dip thermo-setting moisture, oil and acid resisting polyester varnish or vacuum pressure impregnated with a special polyester. resin. Heavy coat of anti-tracking varnish for additional protection against moisture or condensation.

Electrical Characteristics
Electrical design in accordance with BS5000 Part 99, IEC34-1, VDEO530, UTE5100, NEMA MG-122, CEMA, CSA 22.2 and AS1359

<u>Automatic Voltage Regulator</u>
The fully sealed automatic voltage regulator maintains the voltage within the limits of +/-1.5°/<sub>0</sub> from no load to full load including cold to hot variations at any power factor between 0.8 lagging and unity and inclusive of a speed variation of  $4.0^{\circ}/_{\circ}$ . Nominal adjustment is by neans of a trimmer incorporated in the AVR.

Radio Interference
Suppression is in line with the provisions of BS EN 50081 and VDE Class G.

Set mounted, manually operated control panel of fabricated sheet steel construction with a hinged lockable door. The control panel is isolated from the engine and comprises of the following instrumentation

Low oil pressure lamp, high water temperature la battery charge ammeter, voltmeter and selector switch, ammeter and selector switch, dual frequency/rpm meter and hours counter. A key start control module and emergency stop button are fitted as standard.

Shutdown Protection Devices with Indicators for: High coolant temperature low oil pressure

Circuit Breaker
Three pole moulded case circuit breaker or a 3 pole
miniature circuit breaker mounted on the baseframe in a
sheet steel box with adequate access for incoming and outgoing cables.

A wide range of options are available.

### FUEL SYSTEM

The baseframe design incorporates a plastic fuel tank with a capacity of 12 hours at a 75% load. The tank is supplied complete with level indicator and fuel fill cap, bosses for vent, fuel feed and return lines to engine. Optional remote fuel tank connections available

## COOLING RADIATOR

Radiator and cooling fan complete with protection guards, designed to cool the engine at specified output, in air-on temperatures up to 52°C (126°F).Coolant drain valve fitted as standard on acoustic canopy variants.

# ENGINE FILTRATION SYSTEM

Sealed paper mesh type dry air filters. Cartridge type fuel filters including water seperator. Full flow lube oil filters. All filters have replacement elements.

## EXHAUST SYSTEM

Heavy-duty industrial capacity exhaust silencer.

## ELECTRICAL SYSTEM

12 Volt system with battery charging alternator, axial type starter motor, high capacity maintenance free lead acid starting batteries, battery rack mounted on the generator set baseframe, and heavy duty nterconnecting cables with terminations.

## MOUNTING ARRANGEMENT

The complete generator set is mounted, as a whole, on a baseframe. The baseframe incorporates specially designed fork lift pocket and an optional centre point lift. (Standard on acoustic canopy variants).

# SPECIFICATION NOTES

Prime Power (models with suffix 'P'). All ratings are suitable for continuous power (at variable load in lieu of main power network). There is no limitation to the annual hours of operation.

Ratings at 0.8 p.f 25°C(77°F) 3 phase, 1.0 p.f single phase. Ambient, 177m (600ft) above sea

mpliance with BC5514, ISO 3046, DIN6271, ISO 8528

Coupling
The engine and alternator are directly coupled by means
of an SAE flange so that there is no possibility of
misalignment after prolonged use. The engine flywheel
is flexibly coupled to the alternator rotor and a full
torsional analysis has been carried out to guarantee no
harmful vibration will occur in the assembly.

Anti-Vibration Mounts
Anti-Vibration mounts are affixed between engine/alternator feet and the baseframe, thus ensuring complete vibration isolation of the rotating assemblies.

Safety Guards
The fan, fan drive and battery charging alternator drive are fully guarded for personnel protection.

# GENERAL ARRANGEMENT

The generator set is designed and constructed for installation in a weather-protected building. Sound attenuated enclosures achieving 75dB(A) at 1m or better are available

A full set of operation and maintenance manuals and circuit wiring diagrams are supplied with each generator

### **FACTORY TESTS**

The generator set is load tested before despatch. All protective devices and control functions of the generator/system are simulated and checked before A test certificate is provided with each generator set.

## EQUIPMENT FINISH

Primer on all equipment. Final coat to manufacturer's

# QUALITY STANDARDS

The equipment meets the following standards: BS4999, BS5000, BS5514, IEC 34, VDE0530, NEMA MG-122

## PRODUCT ENDORSEMENT

All equipment is guaranteed\* for a period of 12 months from date of commissioning, or 18 months from date of ex works shipment, whichever occurs first. Where equipment is supplied by an authorised Broadcrown Distributor or Dealer, the 12 month guarantee period will commence from the date of delivery to the first retail purchaser or 18 months from shipment, whichever occurs first. date of ex works

Please see Broadcrown Warranty statement for a full specification of terms. Extended warranty terms are available, for details please contact Broadcrown Customer Services Department.

\*Equipment must only be used in accordance with ended operating practices and subject to any specified load limitations

## MISCELLANEOUS

Shrink wrapped for export.

**Detroit Diesel** Allison

CATERPILLAR Cummins

WESTERBEKE Onan

Twin Disc ZF

MARATHON Delco