

GWT6-1A G BUILD ENGINE

GWT6-1A 15, GWT6-1A 18

*Power range: 84.3—107.3 kW; 113.0—143.9 bhp
Fixed speed; full-load speed ranges: 1500 and 1800 r/min*

TURBOCHARGED HEAVY DUTY G BUILD DIESEL ENGINE

SPECIAL ATTRIBUTES

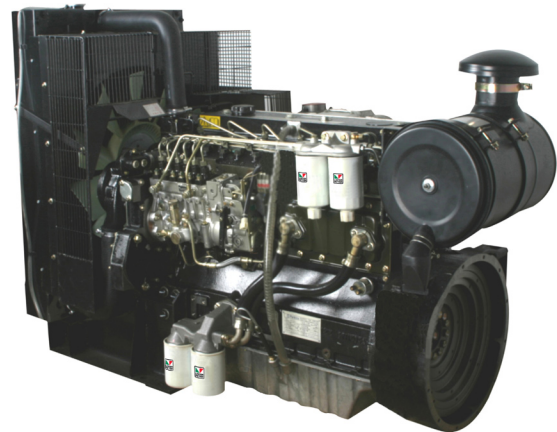
- suitable for generating sets
- 250-hour service intervals
- continuous operation in ambient temperatures up to 45°C (113°F)
- cold start down to -20°C (-4°F)

BASIC ENGINE CHARACTERISTICS

- six cylinders
- diesel fuelled
- direct injection
- liquid cooled
- turbocharged

DESIGN FEATURES AND EQUIPMENT

- standard oil and fuel filters
- 12V electric start (optional 24V)
- anticlockwise rotation, looking on flywheel end
- SAE 10" and 11.5" flywheel
- SAE3 flywheel housing
- radiator with fan guard
- cast-iron crankcase
- self-vent fuel system
- inline fuel injection pump
- flywheel with ring gear
- air cleaner
- oil pressure sender/switch combination
- water temperature sender/switch combination
- spin-on lubricating-oil filter
- fuel filter/agglomerator
- inlet and exhaust manifolds
- operators' handbook



GWT6-1A ENGINE

| POWER OUTPUTS | | | |
|----------------------|-----|-------|-------|
| r/min | | 1500 | 1800 |
| Continuous Power | kW | 84.3 | 97.6 |
| | bhp | 113.0 | 130.9 |
| Overload Power | kW | 92.7 | 107.3 |
| | bhp | 124.3 | 143.9 |

Notes:

1. Power ratings are measured at the flywheel end.
2. Power ratings and fuel consumption figures apply to a fully run-in, non-derated engine without a radiator and fan fitted, and without power-absorbing accessories or transmission equipment.

| TECHNICAL DATA | | | |
|---|-----------------|----------------------------------|---------------|
| | | GWT6-1A 15 | GWT6-1A 18 |
| Number of cylinders | | 6 | |
| Firing order (number 1 cylinder is at gear end) | | 1 5 3 6 4 2 | |
| Type of fuel injection | | Direct injection | |
| Aspiration | | Turbocharged | |
| Direction of rotation, looking on flywheel | | Anticlockwise | |
| Nominal cylinder bore | mm | 100 | |
| | in | 3.94 | |
| Stroke | mm | 127 | |
| | in | 5 | |
| Total cylinder capacity | litre | 5.99 | |
| | in ³ | 365.2 | |
| Compression ratio | | 16.0:1 | |
| Rated maximum full-load speed | r/min | 1500 | 1800 |
| Mean piston speed | m/sec | 6.35 | 7.62 |
| | f/sec | 20.8 | 25.0 |
| Oil consumption | | Maximum 0.2% of fuel consumption | |

| FUEL CONSUMPTION | | |
|--|------|------|
| r/min | 1500 | 1800 |
| litres/hour at 100% power (continuous) | 22.0 | 26.0 |

A comprehensive range of options allows you to select a specification that matches your requirements. Please ask your Lister Petter distributor (see panel below right).

| DIMENSIONS AND WEIGHT | | |
|-----------------------|----|------|
| Length (A) | mm | 1540 |
| | in | 60.6 |
| Height (B) | mm | 1108 |
| | in | 43.6 |
| Width (C) | mm | 716 |
| | in | 28.2 |
| Dry Weight | kg | 740 |
| | lb | 1630 |

RATING DEFINITIONS, TO ISO 3046

ISO Standard Conditions

Barometric pressure 100 kPa

Relative humidity 30%

Ambient temperature at air inlet manifold 25°C

Fixed speed power: continuous power (ICN)

The power in kW which the engine is capable of delivering continuously at the stated crankshaft speed, under ISO standard conditions, measured at the flywheel without power-absorbing accessories, provided that the engine is overhauled and maintained in good operating condition and that fuel to BS EN 590 Class A1 or A2, and lubricating oils to the correct performance specification and viscosity classification as recommended by Lister Petter Limited, are used.

Fixed speed power: overload power (ICXN)

The maximum power in kW which the engine is capable of delivering intermittently at the stated crankshaft speed for a period not exceeding one hour in any period of twelve hours' continuous running, immediately after working at the continuous power, under ISO standard conditions and with the provisions specified for continuous power above.

De-rating

For non-standard site conditions, reference should be made to relevant BS, ISO and DIN standards.

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