



GAMMA Series

GWTA6 Variable Speed Engine

GWTA6 - 22

Power range: 110 - 124 kW; 147 - 166 bhp
Variable speed: 1500 - 2200 r/min

Turbocharged/Intercooled heavy-duty variable speed diesel engine

Special Attributes

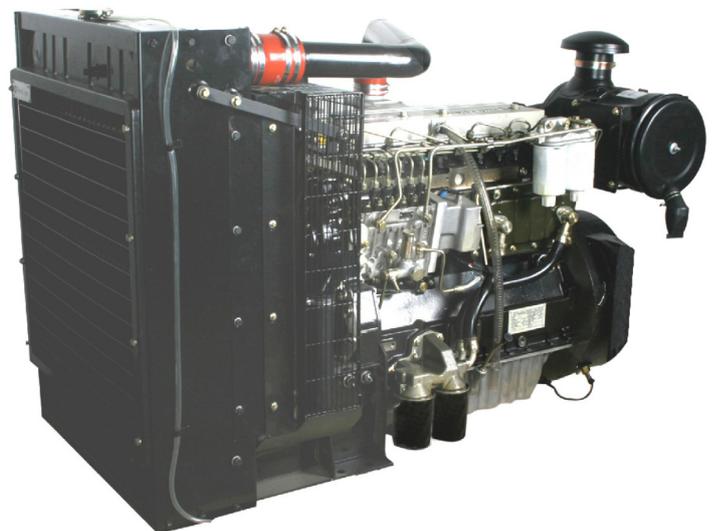
- ✓ 400-hour service intervals
- ✓ continuous operation in ambient temperatures up to 50°C (122°F)
- ✓ cold-start down to -10°C (14°F)

Basic Engine Characteristics

- diesel-fuelled
- six cylinders
- direct injection
- water-cooled
- turbocharged and intercooled

Design Features and Equipment

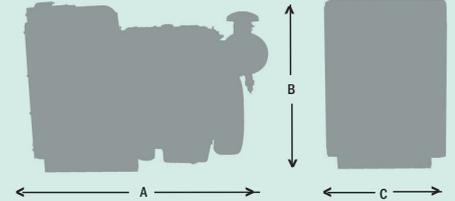
- standard oil and fuel filters
- 12V electric start (optional 24V)
- anticlockwise rotation, looking on flywheel
- SAE 10" and 11.5" flywheel
- SAE3 flywheel housing
- radiator with fan guard
- cast-iron crankcase
- self-vent fuel system
- inline fuel injection pump
- electronic governing
- flywheel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



| Technical Data | | |
|---|-----------------|----------------------------------|
| Model | | GWTA6 - 22 |
| 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 and Intercooled |
| Direction of rotation, looking on flywheel | | Anticlockwise |
| Cylinder bore | mm | 100 |
| | in | 3.94 |
| Stroke | mm | 127 |
| | in | 5 |
| Total cylinder capacity | litre | 5.99 |
| | in ³ | 365.2 |
| Compression ratio | | 17.5:1 |
| Rated maximum full-load speed (r/min) | | 2200 |
| Mean piston speed | m/sec | 9.3 |
| | f/sec | 30.5 |
| Oil consumption | | maximum 0.2% of fuel consumption |

GAMMA Series: GWTA6 Variable Speed Engine Technical Data Sheet

| Dimensions and Weight | | |
|-----------------------|----|------|
| Length (A) | mm | 1650 |
| | in | 65.0 |
| Height (B) | mm | 1064 |
| | in | 41.9 |
| Width (C) | mm | 800 |
| | in | 31.5 |
| Dry Weight | kg | 730 |
| | lb | 1609 |



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

Distributor's Address

Lister Petter have made efforts to ensure that the information in this data sheet is accurate but reserve the right to amend specifications and information without notice and without obligation or liability.

| Power Outputs to ISO3046 | | | | | |
|--------------------------|-----------------|-------|-------|------|------|
| | | r/min | 1500 | 1800 | 2200 |
| Variable Speed | Fuel Stop Power | kW | 110 | 118 | 124 |
| | | bhp | 147.4 | 158 | 166 |

| Torque to ISO3046 | | | | | |
|-------------------|------------------|--------|------|------|------|
| | | r/min | 1500 | 1800 | 2200 |
| Variable Speed | Fuel Stop Torque | Nm | 696 | 622 | 535 |
| | | lbf ft | 516 | 461 | 396 |

| Fuel Consumption | | | | |
|------------------|-------|----------|------|------|
| Variable Speed | r/min | 1500 | 1800 | 2200 |
| | | litre/hr | 31 | 35 |

1. Variable speed: fuel-stop power, continuous power (IFN)

The maximum power in kW which an engine is capable of delivering continuously at stated crankshaft speed, with the fuel limited so that the fuel stop power cannot be exceeded.

The output ratings apply only to fully run - in engines without radiator, fan or other power absorbing accessories.



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