

GWTA6 G BUILD ENGINE

GWTA6 15, GWTA6 18

*Power range: 121—147 kW; 162—197 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

- diesel fuelled
- six cylinders
- direct injection
- liquid cooled
- turbocharged and intercooled
- standard oil and fuel filters
- 12V electric start (optional 24V)
- anti clockwise rotation, looking on flywheel
- SAE 10" and 11.5" flywheel
- SAE3 flywheel housing
- radiator with fan guard

DESIGN FEATURES AND EQUIPMENT

- cast-iron crankcase
- self-vent fuel system
- inline fuel injection pump
- electronic governing
- 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



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POWER OUTPUTS TO ISO 3046

		r/min	1500	1800
Continuous Power	kW		121	134
	bhp		162	180
Overload Power	kW		134	147
	bhp		180	197

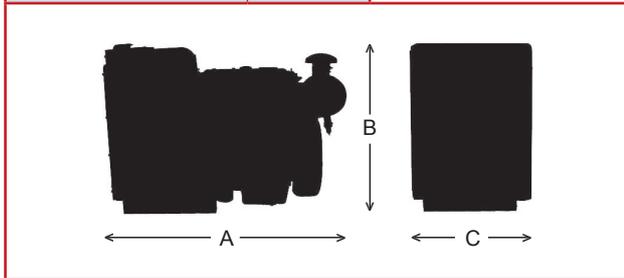
FUEL CONSUMPTION

		r/min	1500	1800
litre/hr @ 100% power (continuous power)			31.0	34.5

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.

APPROXIMATE DIMENSIONS AND WEIGHT

Length (A)	mm	1610
	in	63.4
Height (B)	mm	1064
	in	41.9
Width (C)	mm	800
	in	31.5
Dry Weight	kg	760
	lb	1674



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

TECHNICAL DATA

Model	GWTA6 15	GWTA6 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	
Aspiration	Turbocharged and Intercooled	
Direction of rotation, looking on flywheel	Anti clockwise	
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)	1500	1800
Mean piston speed	m/sec	6.35
	f/sec	20.8
Oil consumption	Maximum 0.2% of fuel consumption	

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.

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).

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