



GAMMA SERIES

GWTA6 15 | GWTA6 18 G Build Engines

fixed speeds
1500 | 1800 r/min

121 - 147 kW | 162 - 197 bhp

GWTA6 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

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

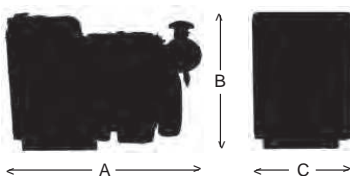
APPROXIMATE FUEL CONSUMPTION

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

TECHNICAL DATA

Model		GWTA6 15	GWTA6 18
Number of cylinders		6	
Firing order (number 1 cylinder is at the gear end)		1 - 5 - 3 - 6 - 4 - 2	
Type of fuel injection		Direct	Direct
Aspiration		Turbocharged and Intercooled	
Direction of rotation, looking on flywheel		Anti clockwise	Anti clockwise
Cylinder bore	mm	100	100
	in	3.94	3.94
Stroke	mm	127	127
	in	5	5
Total cylinder capacity	litre	5.99	5.99
	in ³	365.2	365.2
Compression ratio		17.5:1	17.5:1
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	

APPROXIMATE DIMENSIONS AND WEIGHT



Length (A)	mm	1610
	in	63.4
Width (B)	mm	1064
	in	41.9
Height (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 air temperature at the inlet manifold 25°C

Fixed Speed: Continuous Power (ICN)

The power in kW which the engine is capable of delivering continuously at the stated crankshaft speed, under ISO 3046 standard conditions, measured at the flywheel without powerabsorbing 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 Power Systems Limited are used.

Fixed Speed (Fuel Stop): 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 of continuous running, immediately after working at the continuous power, under ISO 3046 standard conditions and with the provisions specified for continuous power in item (1) above, but with the fuel limited so that the fuel stop power cannot be exceeded.

Derating

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

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.



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