



GAMMA SERIES

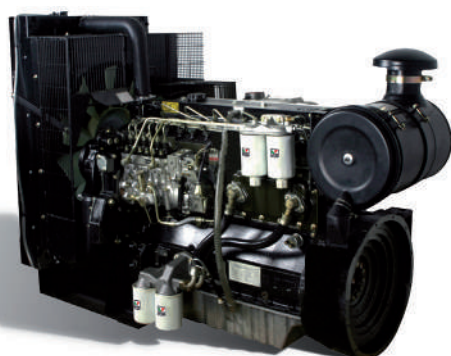
fixed speeds
1500 | 1800 r/min

84.3-107.3 kW | 113.0-143.9 bhp

GWT6-1A G Build Engines

GWT6-1A 15 | GWT6-1A 18

GWT6-1A 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

POWER OUTPUTS TO ISO 3046

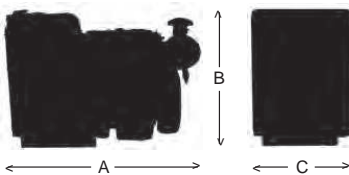
	r/min	1500	1800
Continuous Power	kW	84.3	97.6
	bhp	113.0	130.9
	kW	92.7	107.3
Overload Power	bhp	124.3	143.9

APPROXIMATE FUEL CONSUMPTION

r/min	1500	1800
litre/hr at 100% power (continuous power)	22.0	26.0

TECHNICAL DATA

Model	GWT6-1A 15	GWT6-1A 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		
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	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		

APPROXIMATE DIMENSIONS AND WEIGHT

Length (A)	mm	1540
	in	60.6
Width (B)	mm	1108
	in	43.6
Height (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 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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