



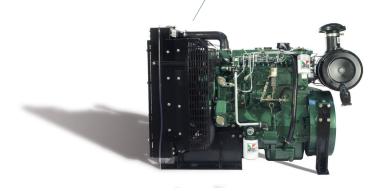
GAMMA SERIES

GWT4 15 | GWT4 18 G Build Engines

fixed speeds 1500 | 1800 r/min

65.7 - 83.2 kW | 88.1 - 111.5 bhp

GWT4 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

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

DESIGN FEATURES AND EQUIPMENT

- standard oil and fuel filters
- 12V electric start (optional 24 V)
- anti clockwise 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
- n-line 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

GWT4 G Build engines TDS

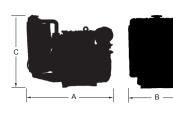
POWER OUTPUTS TO ISO 3046					
	r/min	1500	1800		
Continuous Power	kW	65.7	75.6		
	bhp	88.1	101.4		
Overload Power	kW	72.3	83.2		
	bhp	96.9	111.5		

APPROXIMATE FUEL CONSUMPTION

r/min	1500	1800
litre/hr at 100% power (continuous power)	17.5	20.0

TECHNICAL DATA					
Model	GWT4 15	GWT4 18			
Number of cylinders	4				
Firing order (number 1 cylinder is at the gear end)	1 - 3 - 4 - 2				
Type of fuel injection	Direct	Direct			
Aspiration		Turbocharged	Turbocharged		
Direction of rotation, looking on flywheel		Anti clockwise	Anti clockwise		
Culinder here	mm	100	100		
Cylinder bore	in	3.94	3.94		
Stroke	mm	127	127		
Stroke	in	5	5		
Total culinder canacity	litre	3.99	3.99		
Total cylinder capacity	in ³	243.3	243.3		
Compression ratio		16.0:1	16.0:1		
Rated maximum full-load speed	r/min	1500	1800		
Mean nisten speed	m/sec	6.35	7.62		
Mean piston speed	f/sec	20.8	25.0		
Oil consumption	Maximum 0.2% of fuel consumption				

APPROXIMATE DIMENSIONS AND WEIGHT



mm	1260
in	49.6
mm	950
in	37.4
mm	720
in	28.3
kg	550
lb	1213
	in mm in mm in kg

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:

 Power ratings are measured at the flywheel end.
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.

LISTER PETTER

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