



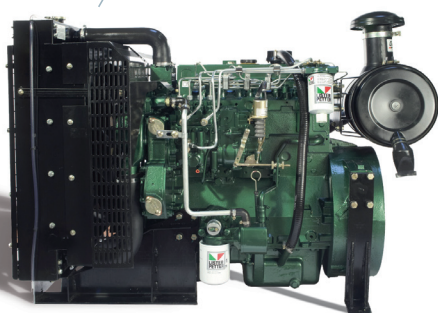
## GAMMA SERIES

# 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

**POWER OUTPUTS TO ISO 3046**

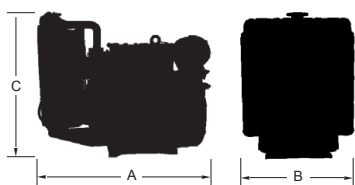
	r/min	1500	1800
Continuous Power	kW	65.7	75.6
	bhp	88.1	101.4
Overload Power	kW	72.3	83.2
	bhp	96.9	111.5

**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
Cylinder bore	mm	100
	in	3.94
Stroke	mm	127
	in	5
Total cylinder capacity	litre	3.99
	in <sup>3</sup>	243.3
Compression ratio	16.0:1	16.0:1
Rated maximum full-load speed	r/min	1500
Mean piston speed	m/sec	6.35
	f/sec	20.8
Oil consumption	Maximum 0.2% of fuel consumption	

**APPROXIMATE DIMENSIONS AND WEIGHT**

Length (A)	mm	1260
	in	49.6
Width (B)	mm	950
	in	37.4
Height (C)	mm	720
	in	28.3
Dry weight	kg	550
	lb	1213

**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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