



GAMMA SERIES

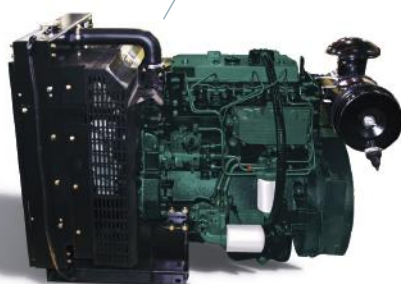
fixed speeds
1500 | 1800 r/min

40 - 48 kW | 53.6 - 64.3 bhp

GW4RP G Build Engines

GW4RP 15 | GW4RP 18

GW4RP 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
- naturally aspirated

DESIGN FEATURES AND EQUIPMENT

- standard oil and fuel filters
- 12V electric start (optional 24V)
- 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
- rotary type 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

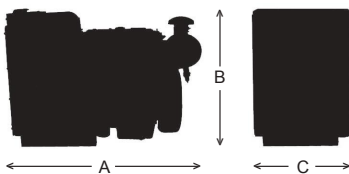
	r/min	1500	1800
Continuous Power	kW	40.0	44.0
	bhp	53.6	59.0
	kW	44.0	48.4
Overload Power	bhp	59.0	64.9

APPROXIMATE FUEL CONSUMPTION

r/min	1500	1800
litre/hr at 100% power (continuous power)	10.5	11.6

TECHNICAL DATA

Model	GW4RP 15	GW4RP 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	Natural	Natural	
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	3.99	3.99
	in ³	243.3	243.3
Compression ratio	16.5:1		
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	1260
	in	49.6
Height (B)	mm	950
	in	37.4
Width (C)	mm	706
	in	27.8
Dry weight	kg	540
	lb	1190

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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