

GW3 G BUILD ENGINE

GW3 15, GW3 18

Power range: 28—36 kW; 37.5—48.3 bhp

Fixed speed; full-load speed ranges: 1500 and 1800 r/min

NATURALLY ASPIRATED HEAVY DUTY G BUILD DIESEL 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)
- shut down solenoid (energised to run)

BASIC ENGINE CHARACTERISTICS

- three 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
- 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



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POWER OUTPUTS TO ISO 3046

		r/min	1500	1800
Continuous Power	kW		28.0	33.0
	bhp		37.5	44.2
Overload Power	kW		30.0	36.0
	bhp		40.2	48.3

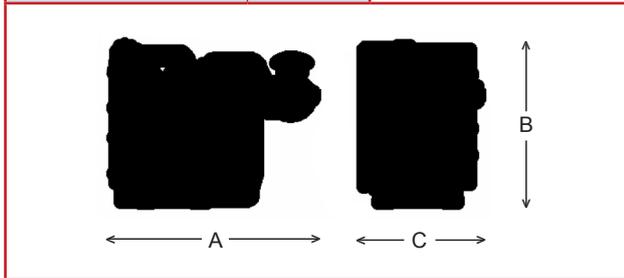
FUEL CONSUMPTION

		r/min	1500	1800
litre/hr @ 100% power (continuous power)			7.6	8.2

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.

APPROXIMATE DIMENSIONS AND WEIGHT

Length (A)	mm	1186
	in	46.7
Height (B)	mm	940
	in	37
Width (C)	mm	688
	in	27.1
Dry Weight	kg	410
	lb	903



RATING DEFINITIONS, TO ISO 3046

ISO Standard Conditions

Barometric pressure	100 kPa
Relative humidity	30%
Ambient temperature at air inlet manifold	25°C

Fixed speed power: continuous power (ICN)

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

Fixed speed power: 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' continuous running, immediately after working at the continuous power, under

TECHNICAL DATA

Model	GW3 15	GW3 18
Number of cylinders	3	
Firing order (number 1 cylinder is at gear end)	1 2 3	
Type of fuel injection	Direct	
Aspiration	Natural	
Direction of rotation, looking on flywheel	Anti clockwise	
Cylinder bore	mm	100
	in	3.94
Stroke	mm	127
	in	5
Total cylinder capacity	litre	2.99
	in ³	183
Compression ratio	16.5:1	
Rated maximum full-load speed (r/min)	1500	1800
Mean piston speed	m/sec	6.35
	f/sec	20.8
Oil consumption	Maximum 0.2% of fuel consumption	

ISO standard conditions and with the provisions specified for continuous power above.

De-rating

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

A comprehensive range of options allows you to select a specification that matches your requirements. Please ask your Lister Petter distributor (see panel below right).

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