

# GW4 VARIABLE SPEED ENGINE

**GW4 - 22**

Power range: 40-48 kW; 53.6-67.0 bhp  
Variable speed: 1500-2200 r/min

## NATURALLY ASPIRATED HEAVY DUTY VARIABLE SPEED DIESEL ENGINE

### SPECIAL ATTRIBUTES

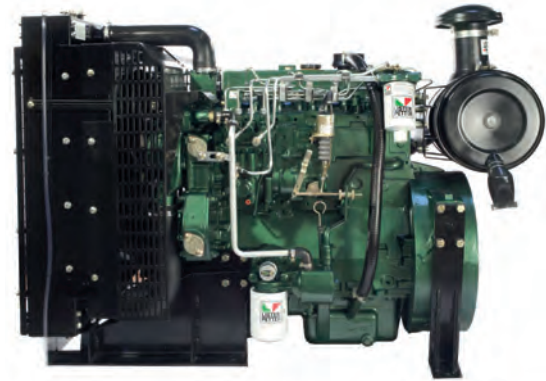
- 250-hour service intervals
- continuous operation in ambient temperatures up to 50°C (122°F)
- cold start down to -10°C (14°F)

### 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 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
- inline fuel injection pump
- flywheel with ring gear
- air cleaner
- water temperature sender
- oil pressure sender
- 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	2200
Variable Speed	Fuel Stop Power	kW	40	42	50
		bhp	53.6	56.3	67.0

### RATING DEFINITIONS TO ISO 3046

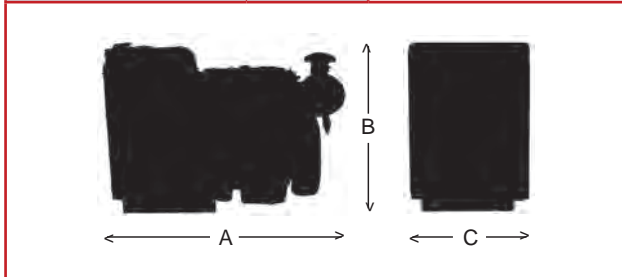
**1. Variable speed: fuel stop power, continuous power (IFN)**

The maximum power in kW which an engine is capable of delivering continuously at stated crankshaft speed, with the fuel limited so that the fuel stop power cannot be exceeded.

The output ratings apply only to fully run - in engines without radiator, fan or other power absorbing accessories.

<b>TORQUE TO ISO 3046</b>					
		r/min	1500	1800	2200
Variable Speed	Fuel Stop Torque	Nm	253	222	208
		lbf ft	188	164	153

<b>APPROXIMATE DIMENSIONS AND WEIGHT</b>		
Length (A)	mm	1260
	in	49.6
Height (B)	mm	940
	in	37
Width (C)	mm	706
	in	27.8
Dry Weight	kg	540
	lb	1190



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

<b>TECHNICAL DATA</b>		
Model	GW4 22	
Number of cylinders	4	
Firing order (number 1 cylinder is at gear end)	1 - 3 - 4 - 2	
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	3.99
	in <sup>3</sup>	243.3
Compression ratio	16.5:1	
Rated maximum full-load speed (r/min)	2200	
Mean piston speed	m/sec	9.3
	f/sec	30.5
Oil consumption	Maximum 0.2% of fuel consumption	

<b>FUEL CONSUMPTION</b>				
Variable Speed	r/min	1500	1800	2200
	litre/hr	10.8	11.3	13.2

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**DISTRIBUTOR ADDRESS**

*Lister Petter Power Systems have made efforts to ensure that the information in this data sheet is accurate but reserve the right to amend specifications and information without notice and without obligation or liability.*