



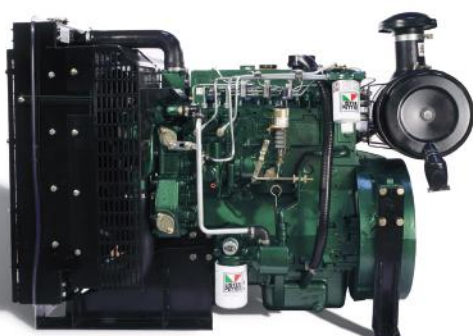
## GAMMA SERIES

variable speed  
1500 - 2200 r/min

40-48 kW | 53.6-67.0 bhp

# GW4-22 Variable Speed Engines

GWT4 VS 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 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
- water temperature sender
- oil pressure sender
- spin-on lubricating-oil filter
- fuel filter / agglomerator
- inlet and exhaust manifolds
- operators' handbook

**POWER OUTPUTS TO ISO 3046**

	r/min	1500	1800	2200
Fuel Stop Power	kW	40	42	50
	bhp	53.6	56.3	67.0

**APPROXIMATE FUEL CONSUMPTION**

r/min	1500	1800	2200
litre/hr at 100% power (continuous power)	10.8	11.3	13.2

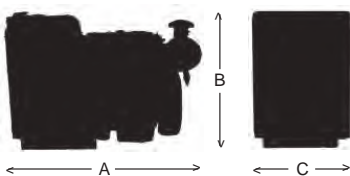
**TORQUE TO ISO 3046**

	r/min	1500	1800	2200
Fuel Stop Torque	Nm	253	222	208
	lbf ft	188	164	153

**TECHNICAL DATA**

Model	GWT4 22	
Number of cylinders	4	
Firing order (number 1 cylinder is at the 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	

**APPROXIMATE DIMENSIONS AND WEIGHT**



Length (A)	mm	1260
	in	49.6
Width (B)	mm	940
	in	37
Height (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

**1. Variable Speed (Fuel Stop): 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.

**Derating**

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

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).



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