



GAMMA Series

GW4 Variable Speed Engine

GW4 - 22

Power range: 36 - 46 kW; 48.3 - 61.7 bhp
Variable speed: 1500 - 2200 r/min

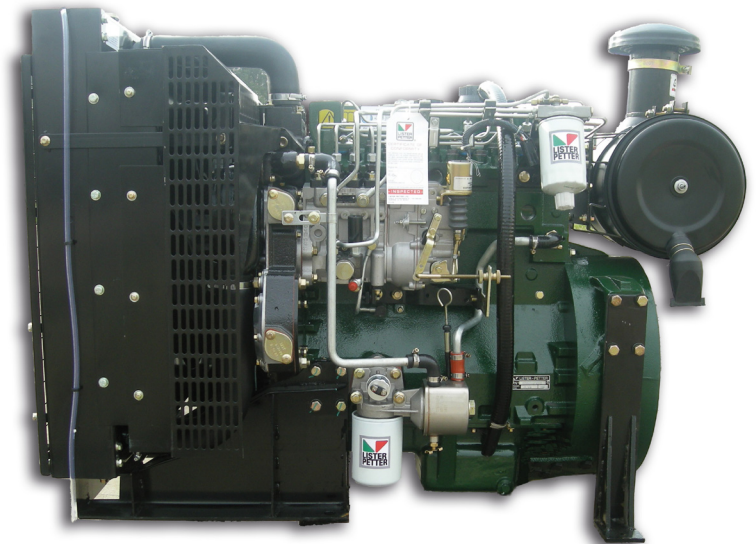
Naturally Aspirated heavy-duty Variable speed diesel engine

Special Attributes

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

Engine Characteristics

- diesel-fuelled
- four cylinders
- direct injection
- water-cooled
- naturally aspirated
- standard oil and fuel filters
- 12V electric start (optional 24 V)
- anticlockwise rotation, looking on the flywheel end
- SAE 10" and 11.5" flywheel
- SAE3 flywheel housing
- radiator with fan guard



Design Features and Equipment

- 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

GAMMA Series: GW4 Variable Speed Engine Technical Data Sheet

Technical Data		
Model	GW4 22	
Number of cylinders	4	
Firing order (number 1 cylinder is at the gear case end)	1 3 4 2	
Type of fuel injection	direct injection	
Aspiration	natural	
Direction of rotation, looking on the flywheel end	anticlockwise	
Nominal cylinder bore	mm	100
	in	3.94
Stroke	mm	127
	in	5
Total cylinder capacity	litre	3.99
	in ³	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	

Power Outputs to ISO3046					
		r/min	1500	1800	2200
Variable Speed	Fuel Stop Power	kW	36	40	46
		bhp	48.3	53.6	61.7

Torque to ISO3046					
		r/min	1500	1800	2200
Variable Speed	Fuel Stop Torque	Nm	228	211	199
		lbf ft	169.1	156.4	147.3

Fuel Consumption				
Variable Speed	r/min	1500	1800	2200
	litre/hr	9.5	10.3	12.5

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.

Approximate Dimensions and Weight			
	Dry Weight	kg	540
		lb	1190
	Length (A)	mm	1250
		in	49.2
	Height (B)	mm	940
		in	37
	Width (C)	mm	706
		in	27.8

Distributor's Address

Lister Petter 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.



UK

Lister Petter Limited, Dursley, Gloucestershire
 GL11 4HS England
 Tel: +44 (0)1453 544141; fax: +44 (0)1453 546732
 E-mail: sales@lister-petter.co.uk <http://www.lister-petter.co.uk>