



SIGMA Series G-Build Engine

SIGMA 30

Power range: 30.9 kW; 41.4 bhp
Fixed speed: 1500 r/min

Naturally aspirated heavy-duty G-Build diesel engine

Special Attributes

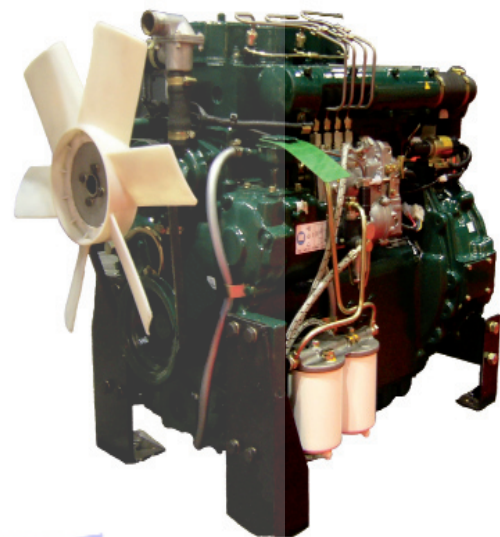
- suitable for generating sets
- 250-hour service intervals
- continuous operation in ambient temperatures up to 50°C (122°F)
- unaided cold-start down to -2°C (28.4°F)

Basic Engine Characteristics

- four cylinders
- diesel fuelled
- direct injection
- liquid cooled
- naturally aspirated

Design Features and Equipment

- standard oil and fuel filters
- 12 V electric start
- anticlockwise rotation, looking on flywheel
- SAE 10" flywheel
- SAE 3 flywheel housing
- radiator with fan guard
- cast-iron crankcase
- self-vent fuel system
- inline fuel injection pump
- flywheel with ring gear
- air cleaner
- low oil-pressure switch
- spin-on lubricating-oil filter
- primary/secondary fuel filter
- inlet and exhaust manifolds
- operators' handbook
- instrumentation package



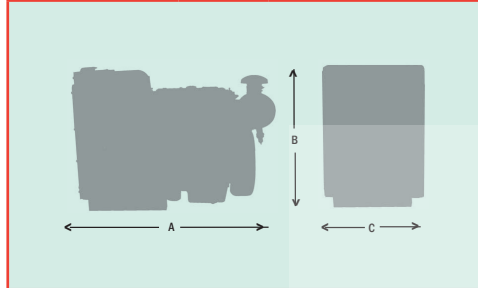
Technical Data

Number of cylinders		4
Firing order (number 1 cylinder is at gear end)		1 3 4 2
Fuel injection		Direct injection
Aspiration		Natural
Direction of rotation, looking on flywheel		Anticlockwise
Nominal cylinder bore	mm	105
	in	4.13
Stroke	mm	110
	in	4.33
Total cylinder capacity	litre	3.81
	in ³	232.3
Compression ratio		19:1
Rated maximum full-load speed	r/min	1500
Mean piston speed	m/sec	5.5
	f/sec	18.0
Oil consumption		Maximum 0.3% of fuel consumption

Warranty

- standard: one year

Dimensions and Weight		
Length (A)	mm	1160
	in	45.67
Height (B)	mm	970
	in	38.19
Width (C)	mm	730
	in	28.74
Dry Weight	kg	450
	lb	992.08



Fuel Consumption	
r/min	1500
litres/hour @ 100% power (continuous power)	8.2

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

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.

Power Outputs*		
	r/min	1500
Continuous Power	kW	30.9
	bhp	41.4
Overload Power	kW	34
	bhp	45.6

Rating Definitions, to ISO 3046

ISO Standard Conditions

Barometric pressure 100 kPa
 Relative humidity..... 30%
 Ambient temperature at air inlet manifold25°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 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.

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.

	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
	USA
	Lister Petter Americas Inc. 815 E. 56 Highway, Olathe, Kansas 66061 USA Tel: +1 913 764-3512; fax: +1 913 764-5493 E-mail: info@lister-petter.com; http://www.lister-petter.com
	France
	Lister Petter France, 17 Avenue de l'Escouvrier, Zone d'Activités, 95842 Sarcelles Cedex, France; tel: +33 (0)1 39330420 Fax: +33 (0)1 34195760; email: commercial@lister-petter-france.fr
	India
	Lister Petter India (P) Ltd, 32/2/5/1, Kondhawa (BK), Pune 411048 India Tel: +91 20 2693 2688/3644/3645; fax: +91 20 2693 3286 Email: smith@listerpetterindia.com
	China
	Lister Petter China, Jinan Fuqiang Power Co. Ltd, Shandong Zhangqiu Industrial Area, Jinan 250220, P.R. China Tel: +86 531 8558 4852; fax: +86 531 8558 4820