



SIGMA Series

SIGMA 30 G-Build

SW4 3015*, SW4 3018*, SW4 3030, SW4 3036*

Power range: 17.5—32 kW

Full-load speed range: 1500—3600 r/min

A compact 4-cylinder, emission-compliant G-Build diesel engine

Suitable for:

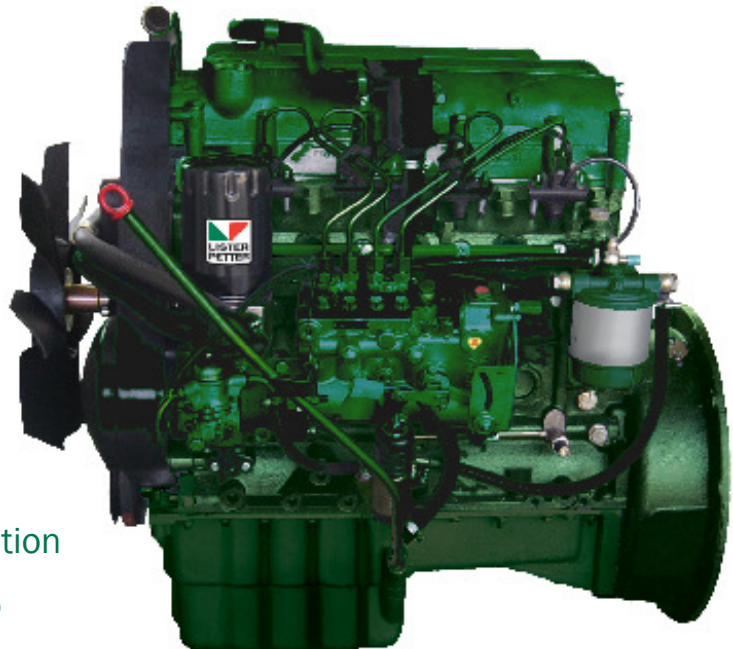
- ✓ gensets

Special Attributes

- ✓ compact
- ✓ versatile
- ✓ emission compliant
- ✓ designed for continuous operation in ambient temperatures up to 52°C (122°F)
- ✓ starting capabilities down to -23°C (-9.5°F)
- ✓ 250-hour service intervals

Characteristics and Features

- four cylinders
- indirect injection
- naturally aspirated
- water-cooled



- diesel-fuelled
- anticlockwise rotation, looking on the flywheel end
- standard oil and fuel filters
- 12V electric start
- SAE 4 flywheel housing
- overhead camshaft
- inline fuel injection pump
- cast-iron crankcase

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Standard Equipment

- flywheel with ring gear
- low oil-pressure switch
- fuel filter/agglomerator
- inlet and exhaust manifolds
- spin-on lubricating-oil filter
- mechanical fuel-lift pump
- internal crankcase breather system
- self-vent fuel system
- crankshaft-driven lubricating-oil pump
- combustion chamber glow plugs
- Operators' Handbook

Emissions Compliance

- EU Stage 2
- USA (in preparation)

Technical Data		
Type of fuel injection		Indirect
Number of cylinders		4
Firing order (number 1 cylinder is at the camshaft belt end)		1 - 3 - 4 - 2
Aspiration		Natural
Direction of rotation, looking on the flywheel end		Anticlockwise
Nominal cylinder bore	mm	90.0
	in	3.54
Stroke	mm	95.0
	in	3.74
Total cylinder capacity	litre	2.417
	in ³	147.5
Compression ratio		1 : 20.6
Maximum full-load speed		3600
Mean piston speed at 3600 r/min	m/sec	11.4
	f/sec	37.3
Oil consumption	g/kW h	0.7
	lb/kW h	0.0015

Power Outputs and Fuel Consumption					
		SW4 3015	SW4 3018	SW4 3030	SW4 3036
r/min		1500	1800	3000	3600
Fixed Speed Continuous Power	kW	17.5	22	32	32
	bhp	23.5	29.5	42.9	42.9
Fixed Speed Overload Power	kW	19.25	24.2	35.2	35.2
	bhp	25.8	32.4	42.8	42.8
Fuel Consumption (Fixed Speed, Continuous Power)	g/kW h	285	285	300	305

Notes:

- 1 The overload capability applies to a fully run-in engine. This is normally attained after a running period of about 50 hours .
- 2 Power ratings measured at the flywheel and fuel consumptions, apply to a fully run-in, non derated engine without a radiator and fan fitted, and without power-absorbing accessories or transmission equipment.

Available July 2007

Rating Definitions (ISO 3046)

1. Fixed Speed Power - continuous speed (ICN)

The power in kW which the engine is capable of delivering continuously at the stated crankshaft speed, under conditions of 100 kPa barometric pressure, 30% relative humidity and 25°C air inlet temperature, 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.

2. Fixed Speed Powers - 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 the conditions specified in (1) above.

3. 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, under the conditions as specified in item 1, with the fuel limited so that the fuel stop power cannot be exceeded.

4. Variable Speed - fuel stop power, intermittent (IOFN)

The maximum power in kW which an engine is capable of delivering intermittently at the stated crankshaft speed, for a period not exceeding 1 hour in any period of 12 hours continuous running immediately after running at the Continuous Fuel Stop Power rating.

5. De-rating

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


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Approximate Dimensions and Weight			
<p>Length, Height and Width</p>	Dry Weight	kg	267
		lb	588
	Length (A)	mm	957
		in	37.7
	Height (B)	mm	793
		in	31.2
	Width (C)	mm	800
		in	31.5

Warranty

- Standard: two years from delivery
- Optional: five years from delivery
(Conditions apply)

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	
	 <p>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</p>
	<p>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</p>
	<p>France Lister Petter France, 17 Avenue de L'escouvrier, Zone d'Activites, 95842 Sarcelles, Cedex France; Tel: +33 (0)1 39330420; Fax: +33 (0)1 34195760; E-mail: commercial@lister-petter-france.fr</p>
	<p>India Lister Petter Private Limited, 102 Beaver Gradeur, Baner, Pune 411045 India Tel: +91 20 729 3284; Fax: +91 20 729 3287</p>
	<p>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</p>

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