

LPW2 G BUILD ENGINE

LPW2

Power ranges: 7.5—14.7 kW; 10.1—19.7 bhp Fixed speeds: 1500, 1800, 3000, 3600 r/min

DURABLE, RELIABLE, EASY TO MAINTAIN LIQUID COOLED, G BUILD DIESEL ENGINE

SPECIAL ATTRIBUTES

- 500-hour service intervals
- designed for continuous operation in ambient temperatures up to 52°C (122°F)
- cold start capability down to -32°C (-25.6°F)

BASIC ENGINE CHARACTERISTICS

- diesel fuelled
- direct injection
- 2 cylinders
- · liquid cooled
- · naturally aspirated

DESIGN FEATURES AND EQUIPMENT

- heavy duty air cleaner*
- Polyvee fan/alternator drive belt*
- · inlet and exhaust manifolds
- · inlet manifold heater plugs*
- · fuel lift pump
- self vent fuel system with individual fuel injection pumps
- fuel filter/agglomerator
- gear driven positive displacement type lubricating oil pump
- · spin-on lubricating oil filter
- 12V starter motor*
- 12V battery charge alternator*
- safety switches*
- fuel control solenoid (energised to run)*
- · mechanical governing
- · radiator with fan and belt guard*
- flywheel with ring gear; 7.5" heavy flywheel for 1500/1800 r/min **
- SAE 5 flywheel housing (SAE 4 optional)



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- standard skid base packing
- operators' handbook
- deep sump (3600r/min only)

EMISSIONS

Complies with EU Stage 3A exhaust emissions regulations.

OPTIONAL ITEMS

- · oil cooler
- 24V battery charge alternator
- increased oil sump capacity (deep sump)

See also items with asterisk under Design Features and Equipment.

A range of options allows you to select a specification that matches your requirements; please consult your Lister Petter distributor.

^{*} Optional items standard on most builds

^{**} Please refer to Applications Department for cyclic irregularity implications

POWER OUTPUTS ¹							
Power	r/min	1500	1800	3000	3600*		
Continuous	kW	7.5	9.3	13.4	14.0		
	bhp	10.1	12.5	18.0	18.8		
Fuel Stop	kW	8.2	10.2	14.7	NI/A		
	bhp	11.0	13.7	19.7	N/A		

^{*} Engines operating at 3600rpm are offered for standby duty only. For further information and approval please contact Lister Petter Applications Department.

Key to Emissions Compliance

FH	Stage	- 3Δ	only
LU	Staye	こりへ	OHIII

¹RATING DEFINITIONS, TO ISO 3046

ISO Standard Conditions

Barometric pressure 100 kPa

Relative humidity 30%

Ambient temperature at air inlet manifold 25°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.

Fixed speed power: continuous power, standby.

This rating is applicable for supplying emergency power in variable load applications. Overload is not allowed.

De-rating

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

Notes: 1. Power ratings measured at the flywheel apply to a fully run-in, non derated engine without a radiator and fan fitted, and without power absorbing accessories or transmission equipment. 2. The overload capability applies to a fully run-in engine. This is normally attained after a running period of about 50 hours. 3. Excluding radiator.

TECHNICAL DATA						
Type of fuel injection	Direct					
Number of cylinders	2					
Aspiration	Natural					
Direction of rotation (flywheel end	Anticlockwise					
Nominal cylinder bore	mm	86.0				
Norminal Cylinder bore	in	3.39				
Stroke	mm	80.0				
Sticke	in	3.15				
Total cylinder capacity	litre	0.930				
Total Cyllinder Capacity	in³	56.75				
Compression ratio	18.5:1					
Firing order (number 1 cylinder is at the g	1—2					
Number of flywheel ring gear teet	96					
Maximum continuous crankshaft	kgf	180				
end thrust	lbf	400				
Maximum permissible intake restriction	mbar	25				
at full rated speed and load	in	10				
Maximum permissible exhaust	mbar	75				
back pressure	in	30				
Lubricating oil pressure at 3000r/min	bar	2.0				
and with the oil at 110°C (230°F)	lbf/in ²	29				

APPROXIMATE DIMENSIONS AND WEIGHT 1 112 kg Dry weight lb 247 699 mm Length (A) in 27.5 512 mm Width (B) 20.2 in mm 647 Height (C) in 25.5

UK

LISTER PETTER LIMITED

Long Street, Dursley, Gloucestershire, GL11 4HS, England TEL: +44 (0)1453 544141; FAX: +44 (0)1453 546732 E-mail: sales@lister-petter.co.uk www.lister-petter.co.uk

UAE

LISTER PETTER FZE

Dubai Silicon Oasis Headquarters, PO Box 341077, Dubai, UAE TEL: +971 4 372 4331; FAX: +971 4 372 4318 E-mail: sales@listerpettergroup.com www.lister-petter.co.uk

DISTRIBUTOR'S ADDRESS

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