

LPWT4 G BUILD ENGINE

LPWT4

Power ranges: 18.9-41.3 kW; 25.3-55.4 bhp

Fixed speeds: 1500, 1800, 3000 r/min

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

SPECIAL ATTRIBUTES

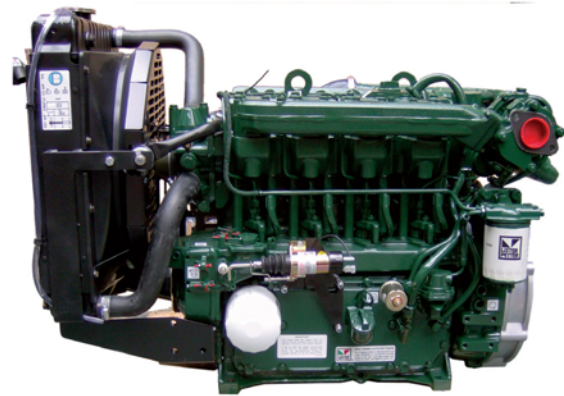
- 500 hour service intervals
- designed for continuous operation in ambient temperatures up to 52°C (122°F)
- cold start capability down to -32°C (-25.6°F)

BASIC ENGINE CHARACTERISTICS

- diesel fuelled
- direct injection
- 4 cylinders
- liquid cooled
- turbocharged

DESIGN FEATURES AND EQUIPMENT

- heavy duty air cleaner
- Polyvee fan/alternator drive belt
- belt guarding
- 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
- safety switches
- fuel control solenoid (energised to run)
- mechanical governing
- radiator with fan and belt guard
- turbocharger
- flywheel with ring gear; 7.5" heavy



LPWT4 G BUILD ENGINE

- flywheel for 1500/1800 r/min
- SAE 5 flywheel housing
- standard skid base packing
- operators' handbook

EMISSIONS

- Models under 19 kW output power comply with EU Stage 3A 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 Power Systems distributor.

POWER OUTPUTS				
Power	r/min	1500	1800	3000
Continuous	kW	18.9	23.8	37.5
	bhp	25.3	31.9	50.3
Fuel Stop	kW	20.8	26.2	41.3
	bhp	27.8	35.1	55.4

1. 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 other power absorbing accessories or transmission equipment.

2. The overload (intermittent) capability applies to a fully run-in engine. This is normally attained after a running period of about 50 hours.

Key to Emissions Compliance

EU Stage 3A only	
------------------	--

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. Fixed Speed - Continuous Power (ICN)

The power in kW which the engine is capable of delivering continuously at the stated crankshaft speed, under ISO 3046 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 Power Systems Limited are used.

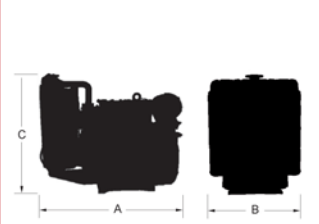
2. Fixed Speed (Fuel Stop) - Overload Power (ICXN)

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 of continuous running, immediately after working at the continuous power, under ISO 3046 standard conditions and with the provisions specified for continuous power in item (1) above, but with the fuel limited so that the fuel stop power cannot be exceeded.

3. De-rating

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

TECHNICAL DATA		
Type of fuel injection	Direct	
Number of cylinders	4	
Aspiration	Turbocharged	
Direction of rotation (flywheel end)	Anti clockwise	
Nominal cylinder bore	mm	86.0
	in	3.39
Stroke	mm	80.0
	in	3.15
Total cylinder capacity	litre	1.860
	in ³	113.50
Compression ratio	16.2:1	
Firing order (number 1 cylinder is at the gear end)	1 - 3 - 4 - 2	
Number of flywheel ring gear teeth	96	
Maximum continuous crankshaft end thrust	kgf	180
	lbf	400
Maximum permissible intake restriction at full rated speed and load	mbar	25
	in	10
Maximum permissible exhaust back pressure	mbar	50
	in	20
Lubricating oil pressure at 3000r/min and with the oil at 110°C (230°F)	bar	2.0
	lbf/in ²	29

APPROXIMATE DIMENSIONS AND WEIGHT			
	Dry weight	kg	224
		lb	494
Length (A)	mm	930	
	in	36.6	
Width (B)	mm	565	
	in	22.2	
Height (C)	mm	685	
	in	27	

Note: These weights are for a fully dressed G build configured engine.



info@virtutemaris.pl

Skontaktuj się z nami w celu uzyskania profesjonalnej wyceny wdrożenia projektu, instalacji silnika, lub wymiany podzespołów. Nasz profesjonalny zespół szybko i sprawnie przygotuje kompleksową ofertę usługi którą zrealizujemy w przystępnym odstępie czasowym. Posiadamy pełną dokumentację techniczną i szybki dostęp do części oraz materiałów eksploatacyjnych.

SKONTAKTUJ SIĘ Z NAMI

ADRES
al. KEN 55/80, 02-777 Warszawa,
Polska

TELEFON
+48 600 72 42 62

EMAIL
info@virtutemaris.pl