



LISTER PETTER

# 3X86

Power Range: 11.0 - 19.0 kW

## TECHNICAL DATA SHEET



### POWER OUTPUT

		Fixed Speed Continuous(ICXN)	Variable Speed Fuel Stop (IOFN)
3000	kW	-	19
	hp	-	25
2500	kW	-	18
	hp	-	24
2000	kW	-	15
	hp	-	20
1800	kW	11.8	14
	hp	15.8	19
1500	kW	9.3	11
	hp	12.47	15

**Rating: ISO 3046-1**

The output ratings apply only to fully run in engines without radiator, fan or power absorbing accessories.

**Derating: ISO 3046-1**

Altitude - Approximately 4% for every 300m (1000ft) higher than 100m (330ft) above sea level.

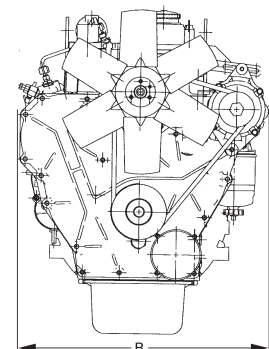
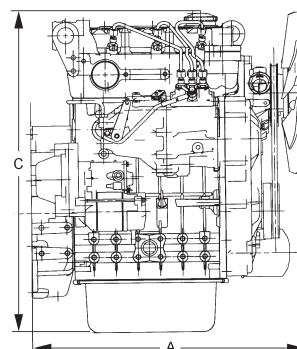
Temperature - Approximately 2.0% for every 5°C (10°F) above 25°C (77°F).

### TORQUE

		Variable Speed Fuel Stop (IOFN)
Nm		60
lbf ft		44
Nm		68
lbf ft		50
Nm		72
lbf ft		53
Nm		74
lbf ft		54
Nm		73.3
lbf ft		54

### APPROXIMATE DIMENSIONS

	mm	inch
<b>A</b>	538	21.2
<b>B</b>	480	18.9
<b>C</b>	620	24.4



The figures given are for guidance, and should not be used for installation purposes  
The 'A' dimension is taken from the outside faces of the radiator fan and flywheel housing

## MECHANICAL DATA

Bore	mm	76
	in	2.99
Stroke	mm	86
	in	3.38
Cylinder Capacity	litre	1.17
	in <sup>3</sup>	71.4
Dry Weight (approx)	kg	155
	lb	342

### EMISSIONS CERTIFICATION

These engines meet the requirements of EPA Tier 2 Regulations and EU NRMM Directive Stage 2.

For details of emissions certification please refer to Lister-Petter or your local Lister-Petter Distributor.

### CONSTRUCTION

- Ribbed, thin-wall cast iron crankcase for quiet operation.
- Crankcase with a detachable sump.
- Closed circuit breather system.
- Integrated inlet manifold/cylinder head.

### COMBUSTION SYSTEMS

- Cassette type fuel pump.
- Ricardo Advanced Comet type indirect injection.

### STARTING

- 12 volt electric.

### ROTATION

- Counter-clockwise, looking at the flywheel end.

### COOLING

- Water circulation pump driven by a long-life belt.
- Engine includes a thermostat and an integrated bypass system.
- Designed for ambients up to 52°C (125°F).

### LUBRICATION

- Designed to run at high angles of inclination and includes a full flow spin-on cartridge filter.
- Service free hydraulic tappets.
- Positive displacement, gear driven lubricating oil pump
- Oil service interval of 250 hours.

### GOVERNING

- Fixed and variable speed models.
- Electronic governing.

### DRIVES

- Full power is available at the flywheel end for axial or radial drives.
- Option for mounting two laid back hydraulic power take-offs from the gear end cover.

### MOUNTING

- Automotive style mounting pads on the crankcase.

### STANDARD EQUIPMENT

- Flywheel with SAE J620 7.5" disc face.
- Flywheel housing with SAE5 flange.
- Fuel filter with water trap.
- Fuel lift pump.
- Fixed and variable speed models.
- 12 volt starter motor.
- 50 amp alternator.
- Lubricating oil filter.
- Water circulation pump and thermostat.
- Lifting eyes.
- Operators Handbook.

### ADDITIONAL INFORMATION

Comprehensive mechanical data is available from Lister-Petter Customer Engineering.

A Parts Manual and Technical Handbook are available from any Lister-Petter Distributor.

*This information is intended for the assistance of users and is based upon results obtained from tests performed at the place of manufacture. This company does not guarantee that the same results will be obtained elsewhere under different conditions and in certain applications. The information in this brochure does not form a part of any contract, guarantee or warranty. We have made efforts to ensure that the information is accurate, but reserve the right to amend specifications and information without notice and without obligation or liability.*

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