

LLD WATER COOLED GENSETS

SUPER SILENT SERIES

50 Hz (1500 rpm) power outputs: 12.2—16.5 kVA

60 Hz (1800 rpm) power outputs: 14.8—20.3 kVA

WATER COOLED GENERATING SETS WITH ELECTRONIC CONTROL MODULE

CHOICE OF:

- 50Hz, 1500 rpm or
- 60Hz, 1800 rpm
- Lister Petter 4 cylinder Alpha Series water cooled, direct injection, naturally aspirated diesel engines

STANDARD FEATURES

- control system with electronic digital control module
- single bearing 4-pole brushless alternator
- 700-litre steel fuel tank incorporated into base frame
- steel base-plate with forklift pockets
- anti vibration mountings
- 12V starter battery and leads
- mechanical governing
- emergency stop button (lock down type)
- pusher fan
- operators' handbook
- electrical diagrams
- "Super Silent" acoustic canopy
- integral exhaust silencer
- central point lifting eye
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ENGINE ACCESSORIES

- heavy duty air cleaner
- oil and fuel filters
- fuel lift pump
- 12V electric starting system



**SUPER SILENT ACOUSTIC SET LLD (SS)
COMPLETE WITH 700 - LITRE FUEL TANK**

ALTERNATOR SPECIFICATION

- single bearing 4-pole brushless alternator
- solid state AVR with $\pm 1.5\%$ as standard
- class H insulation on the rotor and stator, with ingress protection rating 23

OPTIONAL ITEMS

- alternative capacity base mounted fuel tanks available on application

CONTROL CUBICLE

All LLD (SS) sets have a control cubicle mounted on a vibration-isolated support, which has the following features:

- electronic digital control module with monitoring/control facility and warning indicators
- automatic shutdown protection
- emergency stop button (lock-down type)
- AC output circuit breaker with over-current protection
- DC circuit control switch and overload circuit breaker

The control module gives digital readouts of:

- generator voltage (phase-to-phase and phase-to-neutral)
- generator current (each phase displayed separately)
- output frequency
- engine speed
- engine coolant temperature
- battery voltage
- engine hours run

The control module has indicators for:

- overspeed / underspeed
- emergency stop
- engine oil pressure
- engine temperature
- failure to start
- battery charge failure

Automatic shutdown occurs under:

- low engine oil pressure
- high engine temperature
- overspeed / underspeed
- failure to start after three attempts

MANUAL/REMOTE START SETS

These sets have the flexibility of either manual or remote automatic operation:

- manual operation is by **START** and **STOP** push-buttons on the control module
- remote operation is achieved by connecting a 2-wire circuit to the relevant terminals on the control module and is activated by setting the control module to **AUTO**

AUTOMATIC MAINS FAILURE SETS (AMF)

In the event of a mains failure, the generating set will automatically operate to supply the electrical load. In addition to the standard features, automatic mains failure sets have:

- wall mounted cubicle governing automatic mains failure operation
- control module timer circuits set to delay start, delay transfer back to mains and delay stop to allow for engine cooldown
- solid state automatic battery charger that maintains charge when set is not running

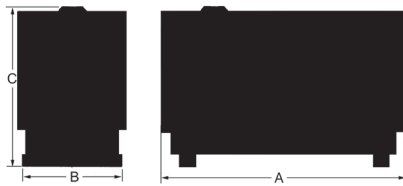
The wall mounted cubicle features:

- mains monitoring unit to control set operation
- load transfer contactors, mechanically and electrically interlocked (rated for set output)
- indicator for mains-on-load or plant-on-load

POWER OUTPUTS TO ISO 8528-1 AND EMISSIONS COMPLIANCE

50 Hz, 1500 r/min ³							60 Hz, 1800 r/min ³						
Model	Engine	Rating	Single Phase		Three Phase		Model	Engine	Rating	Single Phase		Three Phase	
			220V		380/220V					220 or 110V		220/127	
			230V		400/230V					230 or 115V		230/133	
		240V		415/240V				240 or 120V					
			kVA	kW	kVA	kW				kVA	kW	kVA	kW
LLD 190 (SS)	LPW4	Prime	12.2	12.2	15.0	12.0	LLD 190 (SS)	LPW4	Prime	14.8	14.8	18.5	14.8
		Standby	13.5	13.5	16.5	13.2			Standby	16.3	16.3	20.3	16.2

APPROXIMATE DIMENSIONS



Length (A)	mm	2200
	in	86.61
Width (B)	mm	1625
	in	63.97
Height (C)	mm	1050
	in	41.33

APPROXIMATE WEIGHT

LLD 190 (SS)		
Dry weight	kg	650
	lb	1433

SOUND PRESSURE

50 Hz, 1500 r/min, acoustic sets, 75% load at 7m	
In accordance with European Noise Directive 2001/14/EC	
LPW4	54 dBA

Key to Emissions Compliance

EU Stage 3A only	
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RATING DEFINITIONS TO ISO 8528-1

Ratings are in accordance with ISO 8528-1.

Rating Conditions

A standard generating set is designed to operate in environmental reference conditions of 25°C, 100kPa and 30% humidity.

Prime Power

This rating is for the supply of continuous electrical power (at variable load). There is no limit on the annual hours of operation and 10% overload power can be supplied for 1 hour in 12.

Standby Power

This rating is for the supply of continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted.

ELECTRICAL RATINGS

Power Outputs

Power outputs shown are for Lister Petter alternators. Mecc Alte Alternators are available as an option, ratings are different

Power Factor

Single phase: 1.0 pf. Three-phase: 0.8 pf.

Voltages

Other voltages are available on request.

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

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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