



Air Cooled Series

Prime Power Range: 5.4 - 22.6 KVA • 4.3 - 18.1 kW
Standby Power Range: 6.0 - 24.9 KVA • 4.8 - 19.9 kW

Genset Technical Data Sheet

Engine Specification

- HSL8 - Lister Petter model TR1.
- HSL15 - Lister Petter model TR2.
- HSL24 - Lister Petter model TR3.
- HSL8A - Lister Petter model TR1.
- HSL15A - Lister Petter model TR2.
- HSL24A - Lister Petter model TR3.
- One, two and three cylinder, direct injection, naturally aspirated air cooled diesel fuelled engines.
- Standard oil and fuel filters.
- Medium duty air cleaner.
- 12 volt electric starting (not fitted to hand start units).
- Energised to run fuel solenoid (not fitted to hand start units).
- Industrial type exhaust silencer.



HSL24

Alternator Specification

- Single bearing, brushless alternator.
- Solid state AVR with $\pm 1.5\%$ voltage regulation as standard.
- Class "H" Insulation on the rotor and stator.
- IP23 protection class.



HSL24A
Acoustic Set

Standard Features and Options

Standard Features

- Engine and alternator close coupled.
- Fabricated steel skid base.
- Integral 32 litre fuel tank with contents gauge.
- Anti-vibration mounts.
- 12 volt lead acid starting battery (not fitted to hand start units).
- Battery mounting frame (not fitted to hand start units).
- Battery leads (not fitted to hand start units).
- Operator Handbook.
- Electrical diagrams as applicable.

Optional Items:

- Residential silencer kit.
- Basic tool kit.
- Acoustic canopy.
- Road towing trailer.
- Manual changeover switches.
- By-pass isolator switches.
- High engine temperature shutdown on the keystack specification.

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P027-08633 Issue 1: October 2004 © Copyright Lister Petter Limited

Prime and Standby Power Output

		50Hz at 1500r/min				60Hz at 1800r/min			
		Single Phase		Three Phase		Single Phase		Three Phase	
		KVA	kW	KVA	kW	KVA	kW	KVA	kW
HSL8/ HSL8A	Prime	5.4	4.3	5.8	4.7	6.7	5.4	7.2	5.8
	Standby	6.0	4.8	6.5	5.2	7.4	5.9	8.0	6.4
HSL15/ HSL15A	Prime	11.1	8.9	11.9	9.5	13.5	10.8	14.4	11.6
	Standby	12.2	9.8	13.1	10.5	14.9	11.9	15.9	12.7
HSL24/ HSL24A	Prime	17.0	13.6	18.4	14.7	20.9	16.7	22.6	18.1
	Standby	18.8	15.0	20.3	16.2	23.0	18.4	24.9	19.9

All ratings are in accordance with ISO8528 at normal temperatures and pressure, defined as 25°C ambient and at an altitude not exceeding 100 metres above sea level.

Voltage

		50Hz at 1500r/min		60Hz at 1800r/min	
		Single Phase	Three Phase	Single Phase	Three Phase
Volts		220-240	380-415	220 - 240	220-230

2 and 3 wire single phase voltages are available with the same power outputs. Other voltages are available; refer to Lister Petter for details

Approximate Fuel Consumption - litres/hour

r/min	HSL8/HSL8A		HSL15/HSL15A		HSL24/HSL24A	
	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load
1500	1.5	1.2	3.1	2.4	4.6	3.6
1800	1.9	1.5	3.7	2.9	5.5	4.3

Rating Definitions to ISO 8528-1

Rating Conditions

A standard generating set is designed to operate in environmental conditions not exceeding an air inlet temperature of 25°C (77°F), altitude (above sea level) 152.4 metres (500 feet) and a relative humidity of 60%.

Prime Power

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

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.

Mode of Operation Specifications

Handstart Specification

(Not available in acoustic housing)
Standard features with the instrumentation mounted in a panel on a vibration isolated support and including:

- Module incorporating voltmeter, ammeter, frequency meter and hours run counter.
- Phase selector switch for single phase 3 wire outputs and 3 phase outputs.
- Plant output circuit breaker.

Keystart Specification

For local on plant control.
Standard features with the control system mounted in a panel on a vibration isolated support and including:

- Module incorporating voltmeter, ammeter, frequency meter and hours run counter.
- Meter selector switch for single phase 3 wire outputs and 3 phase outputs.
- Control module for key start operation.
- Shutdown for low oil pressure with LED indication.
- Battery charge failure LED indication.
- DC control circuit protection.
- Plant output circuit breaker.

Automatic Electric Start

For remote operation with local control selection and on plant operation.

All features detailed for the KEY START Specification but with an enhanced AUTO START Control Module for remote operation over a 2 wire circuit, incorporating:

- Control mode selector switch.
- Overspeed and high engine temperature shutdown with LED indication.
- Timer circuits - factory preset for specific applications.
- Protection override timer circuits for the starting period.
- 3 attempt starter motor cranking timer circuit.
- Mains powered automatic battery charger.

Automatic Mains Failure

Fully automatic operation to supply the load in the event of a failure of the mains supply.

All features detailed for the KEY START Specification but with an enhanced AUTO START Control Module for remote operation incorporating:

- Control mode selector switch.
 - Overspeed and high engine temperature shutdown with LED indication.
 - Timer circuits - factory preset for delay start, delay stop. Delay re-transfer.
 - Protection override timer circuits for the starting period.
 - Mains powered automatic battery charger.
- Separate wall mounting cubicle with the following:
- Mains supply monitor to control the set operation.
 - Mechanically and electrically interlocked transfer contactors rated for the set output.
 - Mains on load / plant on load indications.
 - Plant contactor emergency operation selector switch.

Approximate Unpacked Dimensions and Weights

Model	Unit	Length	Width	Height	Weight	
		mm	mm	mm	kg	lb
HSL8	mm	1173	600	970	350	770
	in	46.18	23.62	38.18		
HSL15	mm	1221	600	970	400	880
	in	48.07	23.62	38.18		
HSL24	mm	1253	600	970	480	1012
	in	49.33	23.62	38.18		

Model	Unit	Length	Width	Height	Weight	
		mm	mm	mm	kg	lb
HSL8A	mm	1680	720	1150	500	1102
	in	66.14	28.34	45.27		
HSL15A	mm	1680	720	1150	606	1335
	in	66.14	28.34	45.27		
HSL24A	mm	1680	720	1150	636	1402
	in	66.14	28.34	45.27		

ISO Container Load Quantities

Open Sets	20' Container		40' Container	
	X	Y	X	Y
HSL8	12	24	27	54
HSL15	12	24	27	54
HSL24	12	24	27	54

Acoustic Sets	20' Container	40' Container
HSL8A	7	14
HSL15A	7	14
HSL24A	7	14

Note:
X = 1 layer, Y = double stacked