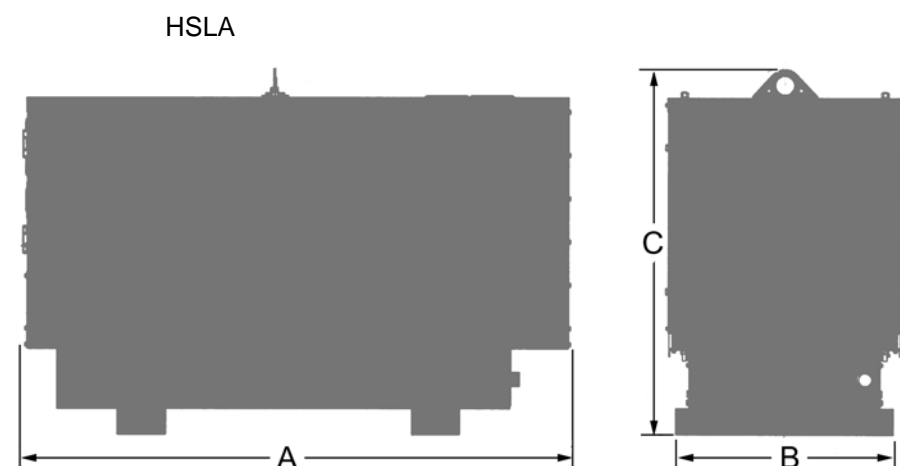


Approximate Dimensions

| | | Length (A) | Width (B) | Height (C) |
|-------|----|------------|-----------|------------|
| HSL8 | mm | 1442 | 715 | 1020 |
| | in | 56.8 | 28.1 | 40.2 |
| HSL15 | mm | 1442 | 715 | 1020 |
| | in | 56.8 | 28.1 | 40.2 |
| HSL24 | mm | 1442 | 715 | 1020 |
| | in | 56.8 | 28.1 | 40.2 |

| | | | | |
|--------|----|------|------|------|
| HSL8A | mm | 1693 | 743 | 1143 |
| | in | 66.6 | 29.2 | 45.0 |
| HSL15A | mm | 1693 | 743 | 1143 |
| | in | 66.6 | 29.2 | 45.0 |
| HSL24A | mm | 1693 | 743 | 1143 |
| | in | 66.6 | 29.2 | 45.0 |



HSL Air Cooled Series

Power Ranges: 4.4 – 19.9 kW; 4.4 – 24.9 kVA
Full Load Speed Range: 1500 – 3600r/min

Engine Specification:

- Lister Petter 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.

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.

Standard Features:

- Engine and alternator close coupled.
- Fabricated steel skid base.
- Integral polypropylene fuel tank with contents gauge.
- Control panel utilising an electronic engine control module based on digital technology.
- Anti-vibration mounts.
- 12 volt lead acid starting battery (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 (only on open sets).
- Basic tool kit.
- Acoustic weatherproof canopy (not on open sets).
- High engine temperature shutdown.
- Manual changeover switches (only on acoustic sets).
- By-pass isolator switches.
- The canopy is also available 'flat packed'.

HSLA Acoustic Set Nomenclature



HSL8A – TR1
HSL15A – TR2
HSL24A – TR3

HSL Open Set Nomenclature



HSL8 – TR1
HSL15 – TR2
HSL24 – TR3

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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. The dimensions given in this brochure are for guidance and must not be used for installation purposes.

Prime and Standby Power Output

| Acoustic or Open set Options and r/min | | | 50Hz Single Phase | | 50Hz Three Phase | | 60Hz Single Phase | | 60Hz Three Phase | |
|--|------------|---------|-------------------|------|------------------|------|-------------------|------|------------------|------|
| | | | kVA | kW | kVA | kW | kVA | kW | kVA | kW |
| HSL8 | 1500, 1800 | Prime | 4.4 | 4.4 | 5.8 | 4.7 | 5.5 | 5.5 | 7.2 | 5.8 |
| | | Standby | 4.8 | 4.8 | 6.5 | 5.2 | 6.1 | 6.1 | 8.0 | 6.4 |
| HSL15 | 1500, 1800 | Prime | 9.1 | 9.1 | 11.9 | 9.5 | 11.1 | 11.1 | 14.4 | 11.6 |
| | | Standby | 10.0 | 10.0 | 13.1 | 10.5 | 12.2 | 12.2 | 15.9 | 12.7 |
| HSL24 | 1500, 1800 | Prime | 13.9 | 13.9 | 18.4 | 14.7 | 17.1 | 17.1 | 22.6 | 18.1 |
| | | Standby | 15.3 | 15.3 | 20.3 | 16.2 | 18.8 | 18.8 | 24.9 | 19.9 |

| | | | | | | | | | | |
|--------|------------|---------|------|------|------|------|------|------|------|------|
| HSL8A | 1500, 1800 | Prime | 4.4 | 4.4 | 5.8 | 4.7 | 5.5 | 5.5 | 7.2 | 5.8 |
| | | Standby | 4.8 | 4.8 | 6.5 | 5.2 | 6.1 | 6.1 | 8.0 | 6.4 |
| HSL15A | 1500, 1800 | Prime | 9.1 | 9.1 | 11.9 | 9.5 | 11.1 | 11.1 | 14.4 | 11.6 |
| | | Standby | 10.0 | 10.0 | 13.1 | 10.5 | 12.2 | 12.2 | 15.9 | 12.7 |
| HSL24A | 1500, 1800 | Prime | 13.9 | 13.9 | 18.4 | 14.7 | 17.1 | 17.1 | 22.6 | 18.1 |
| | | Standby | 15.3 | 15.3 | 20.3 | 16.2 | 18.8 | 18.8 | 24.9 | 19.9 |

All ratings are in accordance with ISO8528-1. Other powers are available; refer to Lister Petter for details.
Power Factor: Single Phase - 1.0; Three Phase - 0.8

Voltage

| Volts | 50Hz Single Phase | 50Hz Three Phase | 60Hz Single Phase | 60Hz Three Phase |
|-------|-------------------|------------------|------------------------------|------------------------------|
| | | 220 - 230 - 240 | 380/220 400/230 - 415/240 | 220/110 230/115 - 240/120 |

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

| | r/min | litres/hour | |
|-------|-------|-------------|----------|
| | | 100% Load | 75% Load |
| HSL8 | 1500 | 1.5 | 1.2 |
| | 1800 | 1.9 | 1.5 |
| HSL15 | 1500 | 3.1 | 2.4 |
| | 1800 | 3.7 | 2.9 |
| HSL24 | 1500 | 4.6 | 3.6 |
| | 1800 | 5.5 | 4.3 |

| | | | |
|--------|------|-----|-----|
| HSL8A | 1500 | 1.5 | 1.2 |
| | 1800 | 1.9 | 1.5 |
| HSL15A | 1500 | 3.1 | 2.4 |
| | 1800 | 3.7 | 2.9 |
| HSL24A | 1500 | 4.6 | 3.6 |
| | 1800 | 5.5 | 4.3 |

Mode of Operation Specifications

Handstart Specification

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.
- Plant output circuit breaker.

Electric Start

For local on plant control and remote operation over a 2 wire circuit.

Standard features with the control system mounted in a panel on a vibration isolated support and including:-

- Control module providing both local and remote control facilities with digital readout of:
 - Generator voltage (L - L and L - N).
 - Generator current.
 - Output frequency.
 - Engine speed.
 - Battery voltage.
 - Engine hours run.
- Shutdown protection for low oil pressure, overspeed, underspeed and failure to start after 3 attempts.
- Alarm indication for battery charger failure.
- Emergency stop button.
- DC control switch and circuit breaker.
- Plant output circuit breaker.
- 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 electric start.

In addition the control module provides:

- Timer circuits (factory pre-set) for delay start, delay transfer on mains return and delay stop for engine cool down.
- Automatic battery charger. This also provides charge for battery maintenance during periods of non-running.

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.

Rating Definitions to ISO 8528-1

Rating Conditions

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

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.

