



Acoustic Series

Prime Power Range: 5.5 - 30.8 KVA • 6.7 - 38.5 kW
Standby Power Range: 5.9 - 33.8 KVA • 7.4 - 42.2 kW

Genset Technical Data Sheet

Engine Specification

- LLD95A - Lister Petter model LPW2.
- LLD135A - Lister Petter model LPW2
- LLD140A - Lister Petter model LPW3.
- LLD200A - Lister Petter model LPW3.
- LLD190A - Lister Petter model LPW4.
- LLD250A - Lister Petter model LPWT4.
- LLD275A - Lister Petter model LPW4.
- LLD400A - Lister Petter model LPWT4.
- LLD410A - Lister Petter model DWS4
- Two, three and four cylinder, direct injection, naturally aspirated and four cylinder turbocharged water cooled diesel fuelled engines.
- Tropical radiator with a pusher fan and full guarding.
- Standard oil and fuel filters.
- Heavy duty air cleaner.
- 12 volt electric starting.
- Energised to run fuel solenoid.
- Battery charging alternator.
- Industrial type exhaust silencer.



LLD190A
Architectural Set



LLD190A

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 and Options

Standard Features

- Engine and alternator close coupled.
- Fabricated steel skid base.
- Integral 85 litre fuel tank with contents gauge (100 litre on Architectural sets).
- Bunded fuel tank - Architectural sets only.
- Anti-vibration mounts.
- 12 volt lead acid starting battery.
- Battery mounting frame.
- Battery leads.
- Operator Handbook.
- Electrical diagrams as applicable.

Optional Items:

- Basic tool kit.
- Road towing trailer.
- Manual changeover switches.
- By-pass isolator switches.

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Prime and Standby Power Output

	r/min Options		50Hz Single Phase		50Hz Three Phase		60Hz Single Phase		60Hz Three Phase	
			KVA	kW	KVA	kW	KVA	kW	KVA	kW
LLD95A	1500, 1800	Prime	6.7	5.5	7.4	5.9	8.1	6.5	9.3	7.5
		Standby	7.4	5.9	8.1	6.5	8.9	7.1	10.2	8.2
LLD135A	3000	Prime	12.6	10.1	13.0	10.4	Not available			
		Standby	13.8	11.0	14.3	11.4	Not available			
LLD140A	1500, 1800	Prime	10.3	8.2	11.3	9.0	12.4	9.9	13.7	10.9
		Standby	11.3	9.0	12.4	9.9	13.6	10.9	15.0	12.0
LLD190A	1500, 1800	Prime	14.5	11.6	15.3	12.2	18.1	14.5	19.0	15.2
		Standby	15.9	12.7	16.7	13.4	19.9	15.9	20.9	16.7
LLD200A	3000	Prime	18.9	15.1	19.8	15.8	Not available			
		Standby	20.7	16.6	21.6	17.3	Not available			
LLD250A	1500, 1800	Prime	18.5	14.8	19.7	15.7	22.3	17.8	24.9	19.9
		Standby	20.4	16.3	21.6	17.2	24.5	19.6	27.4	21.9
LLD275A	3000	Prime	24.5	19.6	27.0	21.6	Not available			
		Standby	26.9	21.5	29.7	23.7	Not available			
LLD400A	3000	Prime	Not available		38.5	30.8	Not available			
		Standby	Not available		42.2	33.8	Not available			
LLD410A	1500, 1800	Prime	Not available		30.0	24.0	Not available		37.0	29.6
		Standby	Not available		33.0	26.4	Not available		40.0	32.0

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. Other powers are available; refer to Lister Petter for details.

Voltage

	50Hz Single Phase	50Hz Three Phase	60Hz Single Phase	60Hz Three Phase
Volts	220-240	380-415	220-240	220-233

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
LLD95A	1500	1.9	2.2
	1800	2.3	1.8
LLD135A	3000	3.9	3.1
LLD140A	1500	2.8	2.2
	1800	3.4	2.7
LLD190A	1500	3.8	2.9
	1800	4.6	3.6
LLD200A	3000	5.9	4.6
LLD250A	1500	4.9	3.7
	1800	6.9	4.6
LLD275A	3000	7.8	6.1
LLD400A	3000	10.6	8.3
LLD410A	1500	8.6	6.3
	1800	10.3	7.4

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

Manual Electric Start

For local on plant control.

Standard features as detailed above 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.
- Module incorporating oil pressure, coolant temperature and battery condition indicators.
- Control module for key start operation.
- Shutdown for low oil pressure and high coolant temperature with separate LED indicators.
- 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 Manual Electric Start Specification but with an enhanced AUTO START Control Module for remote operation over a 2 wire circuit, incorporating:

- Control mode selector switch.
- Overspeed shutdown.
- Timer circuits - factory preset for specific applications.
- Protection override timer circuits for the starting period.
- 3 attempt starter motor cranking timer circuit.

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 Manual Electric

Start Specification but with an enhanced AUTO START Control Module for remote operation incorporating:

- Control mode selector switch.
- Overspeed 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

Y = Architectural Set		Length		Width		Height			Weight	
		X	Y	X	Y	X	Y		X	Y
LLD95A	mm	1800	1910	720	960	1050	1200	kg	323	610
	in	70.84	75.2	28.34	37.79	41.33	47.24	lb	710	1342
LLD135A	mm	1800		720		1050		kg	330	
	in	70.86		28.34		41.33		lb	726	
LLD140A	mm	1800	1910	720	960	1050	1200	kg	278	660
	in	70.84	75.2	28.34	37.79	41.33	47.24	lb	827	1452
LLD190A	mm	1800	1210	720	960	1050	1200	kg	460	660
	in	70.86	75.2	28.34	37.79	41.33	47.24	lb	1012	1452
LLD200A	mm	1800		720		1050		kg	410	
	in	70.86		28.34		41.33		lb	902	
LLD250A	mm	1800		720		1050		kg	485	
	in	70.86		28.34		41.33		lb	1067	
LLD275A	mm	1800		720		1050		kg	478	
	in	70.86		28.34		41.33		lb	1051	
LLD400A	mm	1800		720		1050		kg	505	
	in	70.86		28.34		41.33		lb	1111	
LLD410A	mm	2000		850		1250		kg	530	820
	in	78.74		33.46		49.21		lb	1166	1144

ISO Container Load Quantities

Architectural Sets	20' Container	40' Container
LLD95A	9	18
LLD135A	9	18
LLD140A	9	18
LLD190A	9	18
LLD200A	9	18
LLD250A	9	18
LLD275A	9	18
LLD400A	9	18
LLD410A	9	18

	20' Container	40' Container
LLD95A	7	14
LLD135A	7	14
LLD140A	7	14
LLD190A	7	14
LLD200A	7	14
LLD250A	7	14
LLD275A	7	14
LLD400A	7	14
LLD410A	7	14