



Water Cooled 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

- LLD95 - Lister Petter model LPW2.
- LLD135 - Lister Petter model LPW2
- LLD140 - Lister Petter model LPW3.
- LLD200 - Lister Petter model LPW3.
- LLD190 - Lister Petter model LPW4.
- LLD250 - Lister Petter model LPWT4.
- LLD275 - Lister Petter model LPW4.
- LLD400 - Lister Petter model LPWT4.
- LLD410 - 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.



LLD190

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 fuel tank with contents gauge.
- Anti-vibration mounts.
- 12 volt lead acid starting battery.
- Battery mounting frame.
- Battery leads.
- 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.

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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
LLD95	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
LLD135	3000	Prime	12.6	10.1	13.0	10.4	Not available			
		Standby	13.8	11.0	14.3	11.4	Not available			
LLD140	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
LLD190	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
LLD200	3000	Prime	18.9	15.1	19.8	15.8	Not available			
		Standby	20.7	16.6	21.6	17.3	Not available			
LLD250	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
LLD275	3000	Prime	24.5	19.6	27.0	21.6	Not available			
		Standby	26.9	21.5	29.7	23.7	Not available			
LLD400	3000	Prime	Not available		38.5	30.8	Not available			
		Standby	Not available		42.2	33.8	Not available			
LLD410	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
LLD95	1500	1.9	1.5
	1800	2.3	1.8
LLD135	3000	3.9	3.1
LLD140	1500	2.8	2.2
	1800	3.4	2.7
LLD190	1500	3.8	2.9
	1800	4.6	3.6
LLD200	3000	5.9	4.6
LLD250	1500	4.9	3.7
	1800	6.0	4.6
LLD275	3000	7.8	6.1
LLD400	3000	10.6	8.3
LLD410	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

Saver Specification

Not available on LLD410.

Standard features as detailed above with the following control system:

- Keystart switch fitted in alternator terminal box.
- Low oil pressure and high coolant temperature shutdown with common LED indicator.
- Plant output circuit breaker.

Keystart Specification

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 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 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 KEY 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

		Length	Width	Height	Weight	
		mm	mm	mm	kg	lb
LLD95	mm	1244	600	890	323	710
	in	48.98	23.62	35.03		
LLD135	mm	1244	600	890	330	726
	in	48.98	23.62	35.03		
LLD140	mm	1254	600	890	278	827
	in	49.37	23.62	35.03		
LLD190	mm	1424	600	980	460	1012
	in	56.06	23.62	38.58		
LLD200	mm	1424	600	980	410	902
	in	56.06	23.62	38.58		
LLD250	mm	1424	600	980	485	1067
	in	56.06	23.62	38.58		
LLD275	mm	1424	600	980	478	1051
	in	56.06	23.62	38.58		
LLD400	mm	1424	600	980	505	1111
	in	5.06	23.62	38.58		
LLD410	mm	1600	700	1110	530	1166
	in	62.99	27.55	43.70		

ISO Container Load Quantities

Open Sets	20' Container		40' Container	
	X	Y	X	Y
LLD95	12	24	27	54
LLD135	12	24	27	54
LLD140	12	24	27	54
LLD190	12	24	27	54
LLD200	12	24	27	54

Open Sets	20' Container		40' Container	
	X	Y	X	Y
LLD250	12	24	27	54
LLD275	12	24	27	54
LLD400	12	24	27	54
LLD410	12	24	27	54

Note:
X = 1 layer. Y = double stacked.