



# ALPHA Series DLLD Water-Cooled Gensets

**DLLD95(A), DLLD135, DLLD140(A), DLLD190(A),  
DLLD200, DLLD250(A), DLLD275, DLLD400**

50 Hz; 1500/3000 r/min; power outputs: 5.9–43.5 kVA  
60 Hz; 1800 r/min; power outputs: 7.3–25.3 kVA

*Water-cooled generating sets with electronic control module*

## Choice of:

- ✓ 50 Hz, 1500/3000 r/min or 60 Hz, 1800 r/min
- ✓ Lister Petter ALPHA-Series water-cooled, direct injection diesel engine (2, 3 or 4 cylinders)
- ✓ naturally aspirated or turbocharged
- ✓ open set (DLLD) or acoustic set (DLLDA)

## Standard Features

- control system with electronic digital control module (for features see page 3)
- single-bearing, 2 or 4-pole brushless alternator
- 66-litre polypropylene fuel tank with contents gauge
- galvanised steel base-plate with forklift pockets and bunding for the fuel tank
- anti-vibration mountings
- 12 V starter battery and leads
- mechanical governing
- emergency stop button (lock-down type)
- pusher fan
- Operators' Handbook
- electrical diagrams

## Open Sets Only:

- engine-mounted exhaust silencer



Open Set (DLLD)

## Acoustic Sets Only:

- acoustic canopy
- residential exhaust silencer
- central point lifting eye
- external emergency stop button



Acoustic Set (DLLDA)

## ALPHA Series: DLLD Water-Cooled Genset Technical Data Sheet

### Engine Accessories

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

### Alternator Specification

- single-bearing, 2 or 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

- residential exhaust silencer for open sets (as fitted to acoustic)
- acoustic canopy kit (including residential silencer kit) for retro-fitting to electric-start open sets only
- 2-wheel trailer
- basic tool kit

### Control Cubicle

All DLLD and DLLDA 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 oil pressure

- 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 charger 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

# ALPHA Series: DLLD Water-Cooled Genset Technical Data Sheet

## Power Outputs to ISO 8528-1<sup>1</sup> and Emissions Compliance

50 Hz, 1500 r/min						
Model	Engine	Rating	Single Phase		Three Phase	
			220V 230 V 240 V		380/220 V 400/230 V 415/240 V	
			kVA	kW	kVA	kW
DLLD 95(A)	LPW2	Prime	5.6	5.6	7.0	5.6
		Standby	6.1	6.1	7.6	6.1
	LPWS2	Prime	5.6	5.6	7.0	5.6
		Standby	6.1	6.1	7.6	6.1
DLLD 140(A)	LPW3	Prime	8.7	8.7	10.9	8.7
		Standby	9.5	9.5	12.0	9.6
	LPWS3	Prime	8.7	8.7	10.9	8.7
		Standby	9.5	9.5	12.0	9.6
DLLD 190(A)	LPW4	Prime	12.2	12.2	15.0	12.0
		Standby	13.5	13.5	16.5	13.2
	LPWS4	Prime	12.2	12.2	15.0	12.0
		Standby	13.5	13.5	16.5	13.2
DLLD 250(A)	LPWT4	Prime	15.4	15.4	20.0	16.0
		Standby	17.0	17.0	21.9	17.6
	LPWST4	Prime	15.4	15.4	19.7	15.8
		Standby	17.0	17.0	21.7	17.4

60 Hz, 1800 r/min						
Model	Engine	Rating	Single Phase		Three Phase	
			220 or 110 V 230 or 115 V 240 or 120 V		220/127 230/133	
			kVA	kW	kVA	kW
DLLD 95(A)	LPW2	Prime	6.9	6.9	8.6	6.9
		Standby	7.5	7.5	9.5	7.6
	LPWS2	Prime	6.9	6.9	8.6	6.9
		Standby	7.5	7.5	9.5	7.6
DLLD 140(A)	LPW3	Prime	10.5	10.5	13.3	10.6
		Standby	11.5	11.5	14.6	11.7
	LPWS3	Prime	10.5	10.5	13.3	10.6
		Standby	11.5	11.5	14.6	11.7
DLLD 190(A)	LPW4	Prime	14.8	14.8	18.5	14.8
		Standby	16.3	16.3	20.3	16.2
	LPWS4	Prime	14.8	14.8	18.5	14.8
		Standby	16.3	16.3	20.3	16.2
DLLD 250(A)	LPWT4	Prime	19.0	19.0	24.4	19.5
		Standby	20.9	20.9	26.9	21.5
	LPWST4	Prime	19.0	19.0	24.4	19.5
		Standby	20.9	20.9	26.9	21.5

50 Hz, 3000 r/min						
Model	Engine	Rating	Single Phase		Three Phase	
			220V 230 V 240 V		380/220 V 400/230 V 415/240 V	
			kVA	kW	kVA	kW
DLLD135	LPW2	Prime	10.2	10.2	13.7	11.0
		Standby	11.2	11.2	15.1	12.1
	LPWS2	Prime	10.2	10.2	13.7	11.0
		Standby	11.2	11.2	15.1	12.1
DLLD200	LPW3	Prime	15.4	15.4	20.3	16.3
		Standby	16.9	16.9	22.4	17.9
	LPWS3	Prime	15.4	15.4	20.3	16.3
		Standby	16.9	16.9	22.4	17.9
DLLD275	LPW4	Prime	20.9	20.9	28.1	22.5
		Standby	23.0	23.0	30.9	24.8
	LPWS4	Prime	20.9	20.9	28.1	22.5
		Standby	23.0	23.0	30.9	24.8
DLLD400	LPWT4	Prime			39.5	31.6
		Standby			43.5	34.8

Approximate Fuel Consumption					
Values refer to litres/hour			50 Hz		60 Hz
Genset	Engine	Load	1500 r/min	3000 r/min	1800 r/min
DLLD95(A)	LPW2	100%	1.9		2.3
		75%	1.5		1.8
	LPWS2	100%	2.1		2.5
		75%	1.6		2.0
DLLD135	LPW2	100%		3.9	
		75%		3.1	
	LPWS2	100%		4.4	
		75%		3.4	
DLLD 140(A)	LPW3	100%	2.8		3.4
		75%	2.2		2.7
	LPWS3	100%	3.1		3.7
		75%	2.4		2.9
DLLD200	LPW3	100%		5.9	
		75%		4.6	
	LPWS3	100%		6.6	
		75%		5.1	
DLLD 190(A)	LPW4	100%	3.8		4.6
		75%	2.9		3.6
	LPWS4	100%	4.1		5.0
		75%	3.2		3.9
DLLD275	LPW4	100%		7.8	
		75%		4.6	
	LPWS4	100%		8.8	
		75%		6.9	
DLLD 250(A)	LPWT4	100%	4.9		6.0
		75%	3.7		4.6
	LPWST4	100%	5.4		6.6
		75%	4.1		5.1
DLLD400	LPWT4	100%		10.6	
		75%		8.3	
	LPWST4	100%			
		75%			

1. For rating definitions see page 4. Power Factor: single phase, 1.0 pf; three phase, 0.8 pf. Other voltages are available on request. Power outputs are based on standard Lister Petter alternators (but see 2).  
 2. LPWT4 single-phase outputs are based on Mecc Alte alternators.

Sound Pressure <sup>3</sup>					
Acoustic sets, 75% load at 7m					
50 Hz, 1500 r/min					
LPW2/3	LPW4	LPWT4	LPWS2/3	LPWS4	LPWST4
64 dBA	65 dBA	62 dBA	64 dBA	65 dBA	N/D

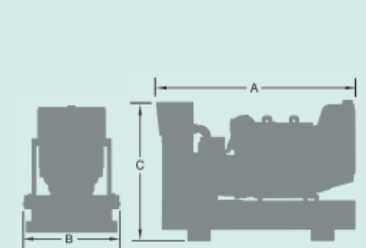
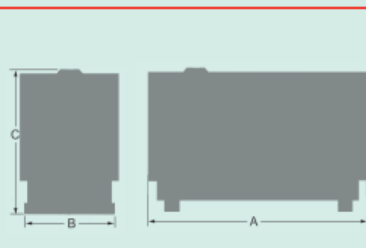
3. In accordance with European Noise Directive 2001/14/EC.

N/D = No data available at going to press. Please ask your distributor.

### Key to Colour Coding

	Fully compliant with EU Stage 3A, USA EPA Interim Tier 4 and India GSR 448(E) legislation.		Compliant with EU Stage 3A and India GSR 448(E) legislation.		Compliant with USA EPA Interim Tier 4 legislation only.		Compliant with EU Stage 3A legislation only.
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# ALPHA Series: DLLD Water-Cooled Genset Technical Data Sheet

Approximate Dimensions			
	Open sets		
	Length (A)	mm	1442
		in	56.8
	Width (B)	mm	715
		in	28.1
	Height (C)	mm	997
in		39.25	
	Acoustic sets		
	Length (A)	mm	1693
		in	66.6
	Width (B)	mm	743
		in	29.2
	Height (C)	mm	1143
in		45.0	

## Rating Definitions to ISO 8528-1

Ratings are in accordance with ISO 8528-1. Power Factor: Single phase, 1.0 pf; three-phase, 0.8 pf. Other voltages are available on request.

### Rating Conditions

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

Weight													
		Open Sets								Acoustic Sets			
		DLLD 95	DLLD135	DLLD140	DLLD190	DLLD200	DLLD250	DLLD275	DLLD400	DLLD95A	DLLD140A	DLLD190A	DLLD 250A
Dry weight	kg	396	396	417	456	417	466	456	466	500	540	580	590
	lb	873	873	919	1005	919	1027	1005	1027	1102	1190	1279	1301

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

**Distributor's Address**



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