



**DESIGN SPECIFICATIONS**

High quality, reliable and complete power unit.  
 Compact design  
 Easy start and maintenance possibility.  
 Every generating set is subject to a comprehensive test Programme which includes full load testing and checking and providing all control and safety shut down functions testing.  
 Fully engineered with a wide range of options and accessories, Canopy, soundproof canopy and on road trailer.



400 / 230 V - 50Hz			ALP 15	ALP 22	ALP 30
Power Factor 0.8	Standby	kVA	15	22	30
	Prime	kVA	13.5	19	27

**Standby:** Continuous running at variable load for an Emergency. No overload is permitted on these ratings. In accordance with BS 5514, ISO 3046.

**Prime:** Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period. In accordance with ISO 8528, ISO 3046.

**ENGINE**

**LISTER PETTER** diesel engine.

- Four cycle, water cooled.
- Direct injection fuel system.
- Mechanical governor control system.
- 12 V.D.C.starter and charge alternator.
- Replaceable dry element air filter,fuel filter and oil filter.
- Cooling radiator and fan.
- Flexible fuel connection hoses and sump oil drain valve.
- Industrial capacity exhaust silencer.
- Starter battery (with lead acid) including rack and cables.
- Jacket water heater (at automatic models).
- Manual and circuit diagram documents.

**ALTERNATOR**

**Newage Stamford** brushless single bearing system, 2 Pole.

- Insulation class H.
- Standard degree of protection IP23 .
- Self-exciting and self-regulating.
- Solid state automatic voltage regulator.
- Vacuum - Impregnated windings with tropicalized epoxy varnished.
- Stator winding with 2/3 pitch for improved harmonics.

**CHASSIS**

- Steel chassis and antivibration pads.
- Base frame design incorporates an integral fuel tank.
- The generating set can be lifted or pushed / pulled by the base.
- Dial type fuel gauge and drain plug.
- Forklift pockets within base frame.

**CANOPY**

- All canopy parts are designed with modular principles.
- Without welding assembly.
- All metal canopy parts are painted by electrostatic polyester powder paint.
- Exhaust silencer manufactured from aluminium plated steel .
- Emergency stop push button is installed outside of canopy .
- Modular canopy can also be installed at a later date.
- Easy maintenance and operation.
- Easy lifting and moving.
- Thermally insulated engine exhaust system.

**QUALITY STANDARDS**

The equipment meets the following standards: IEC 34-1, ISO 3046, VDE 0530, BS 4999, BS 5000, IEC 34-1. The generating set is manufactured by a full accredited ISO 9001 NQA

**CONTROL SYSTEMS**

Deep Sea Control, Supervision and Protection Panel Mounted on genset base frame. The control panel is equipped as follows;

**Auto Mains Failure Control Panel P300**

- Control panel requirements.
- Control with DSE 720 Features.
- Static Battery Charger.
- Emergency stop-push button.

**Generating Set Control Module DSE 720 Features**

- Module is used to monitor a mains supply and automatically start a standby generator set.
- Scrolling Digital LCD Panel.
- Front panel configuration of timers and alarm trip points.
- Easy push button control.
- OFF - MANUAL-AUTO-TEST-START
- LCD display scroll push button.

**Metering via LCD Display**

- Generator Volt (F-N).
  - Generator Ampere (L1, L2,
  - Generator Frequency (Hz).
  - Mains Volts (F-F/F-N).
  - Engine temperature.
- Engine oil pressure.
  - Engine speed,
  - Engine hours run.
  - Plant battery volt.

**Alarms**

- Over current.
  - Over Speed.
  - Under / Over mains volt.
  - Under / Over mains frequency.
  - Low oil pressure.
- High engine temperature.
  - Low battery volt.
  - Charge fail.
  - Start failure.
  - Emergency stop.

**LED Indications**

- Mains available.
  - Mains on load.
- Generator available.
  - Generator on load.



**DSE 720**

**TECHNICAL DATA****DIESEL GENERATING SETS 400 / 230 V - 50Hz**

MODEL		ALP 15			ALP 22			ALP 30			
Power Pf. 0.8	Standby	kVA	15			22			30		
		Kw	12			17.6			24		
	Prime	Kva	13.5			19			27		
		Kw	10.8			15.2			21.6		
Engine Make		Lister Petter			Lister Petter			Lister Petter			
Model		LPW 2			LPW 3			LPW 4			
Gross Engine Power Output		kWm	14.7			22.1			29.5		
(at rated rpm)		hp	19.7			29.6			39.5		
Aspiration and Cooling		Natural			Natural			Natural			
Cubic Capacity		Litre	0.93			1.39			1.86		
Cylinders and Build		2 - In Line			3 - In Line			4 - In Line			
Engine Rated Speed		rpm	3000			3000			3000		
Compression Ratio		18.5:1			18.5:1			18.5:1			
Bore and Stroke		mm x mm	86 x 80			86 x 80			86 x 80		
Governor Type		Mechanical			Mechanical			Mechanical			
Fuel Consumption		Load	1/2	3/4	Full	1/2	3/4	Full	1/2	3/4	Full
		L/h.	2.3	3.1	3.9	3.4	4.6	5.9	4.5	6.1	7.8
Fuel Tank Capacity		Litre	80			90			90		
Total Oil Capacity		Litre	3.2			4			5.8		
Coolant capacity (Engine and Radiator)		Litre	5.5			6.5			7.5		
Air Intake Engine		m <sup>3</sup> / min.	19.75			29.62			39.5		
Exhaust Gas Flow		m <sup>3</sup> / min.	55.2			82.8			110.4		
Exhaust Gas Temperature		0°C	540			540			540		
Alternator Voltage regulation		Plus / Minus %1.5			Plus / Minus %1.5			Plus / Minus %1.5			

All Sets Come With Battery Charger and Engine Heater as Standard.

**OPEN TYPES**

Dimensions (Length x width x height)	m.	1.38 x 0.77 x 0.98	1.45 x 0.82 x 1.04	1.45 x 0.82 x 1.04
Dry Weight	kg.	375	465	530

**SOUND ATTENUATED TYPES**

		ASM1		ASM2	
Dimensions (Length x width x height)	m.	1.77 x 0.82 x 1.18		1.92 x 0.87 x 1.28	
Dry Weight	kg.	520		640	

Manufacturer reserves the right to make changes in model, technical specifications, colour, equipment and accessories without prior notice.

**OPTIONAL EQUIPMENTS****Engine**

Electronic Governor  
Remote Radiator

**Alternator**

3 Pole Output Circuit Breaker  
Oversized Alternator  
Anti-Condensation Heater

**Panel**

Transfer Switch  
Auto Mains Failure  
Earth Fault

**Accessories**

Bulk Fuel Tank  
Automatic Fuel Filling Systems  
Fuel Water Separator  
Low Fuel Alarm  
Residential Silencer  
Trailer  
Tool-Kit for maintenance

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