



Model		LSP72S3	
Standby Power	KVA	72	
	KW	57	
Prime Power	KVA	65	
	KW	52	
Frequency	Hz	50	
Voltage	V	230/400	
Rated speed	rpm	1500	

Perkins is one of the largest engine manufacturer in the world with more than 4000 business outlets, providing power to 5000 different applications with advanced technology.

Lees Perkins range of generator sets provide reliable power solutions for every business, every need. Prime power or standby service, diesel fuel generator sets deliver dependable, clean, economic power, even in the most demanding conditions – and are available in a wide range of configurations with optional equipment.



Perkins engine 🔶 Model: 1104A-44TG1

Main features:

- Compact and efficient power
 - 1100 series is the result of an intensive period of customer research that has guided the development of the range
 - The new 3.3 L cylinder block ensures bore roundness is maintained under the pressures of operation. It also ensures combustion and mechanical noise is lowered
 - A new cylinder head has re-established Perkins mastery of air control
- Quality by design
 - Product design and Class A manufacturing improvements enhance product reliability while maintaining Perkins legendary reputation for durability
- Cost effective power
 - Compact size and low noise
 - Lower fuel consumption and oil use
 - 500 hours service intervals
 - 2 year warranty

Engine specifications:

Air inlet

Mounted air filter

Fuel system

- Rotary fuel injection pump
- Ecoplus fuel filter

Lubrication system

- Wet steel sump with filler and dipstick
- Spin-on oil filter

Cooling system

- Thermostat controlled cooling system with gear driven water pump and belt-driven pusher fan
- Mounted radiator and piping incorporating air-to-air

charger cooler

Electrical equipment

- 12V starter motor and 12V 65A alternator with DC output
- Glow plug cold start aid
- 12V shut down solenoid energized to run cold start aid

Flywheel and housing

- High inertia flywheel to SAE J620 size 10/11 1/2
- SAE 3 flywheel housing

Mountings

• Front engine mounting bracket

B Perkins







Perkins engine 🔶 Model: 1104A-44TG1

General data			
Cylinder No.	4		
Cylinder arrangement	Vertical in-line		
Cycle	4 stroke		
Induction system	Turbocharged		
Combustion system	Direct injection		
Cooling system	Water-cooled		
Bore X Stroke (mm)	105X127		
Displacement (L)	4.4		
Compression ratio	17.25:1		
Direction of rotation	Anti-clockwise, viewed on flywheel		
Lubrication capacity (L)	8.0		
Coolant capacity (L)	13.0		
Dimension (LXWXH) (mm)	1241X629X951		
Dry weight (kg)	463		

Fuel consumption			
Engine speed	1500 rev/min		
Fuel consumption	UK g/hr	l/hr	
Standyby	3.2	14.8	
Prime power	2.4	11.2	
75% of prime power	1.7	8.0	
50% of prime power	1.0	4.6	

The above ratings represent the engine performance capabilities to conditions specified in ISO 8528/1, ISO 3046/1:1986, BS 5514/1

Prime power: power available at variable load with a load factor not exceeding 80% of the prime power rating. Overload of 10% permitted for 1 hour in every 12 hours' operation

Standby power: power available in the event of a main power network failure up to a maximum of 500 hours per year of which up to 300 hours may be run continuously. No overload is permitted



Alternator

Main features:

- 12 wire reconnectable stator/terminal arrangement
- Easy access for installation and maintenance •
- 2/3 pitch winding as standard, to avoid excessive neutral currents
- Class H insulation with severe environmental protection as standard •
- Built to conform with all leading industrial and marine standards
- 460 AVR as standard with 1.5% regulation and 2 phase sensing •
- IP23 as standard

Alternator specifications			
Control system	Self excited		
A.V.R.	SX460		
Voltage regulation	±1.0%		
Insulation system	Class H		
Protection	IP23		
Stator winding	Double layer concentric		
Winding pitch	2/3		
Winding leads	12		
Stator wdg. resistance	0.065Ohms per phase at 22°C series star connected		
Rotor wdg. resistance	0.83 Ohms at 22℃		
Excited stator resistance	20 Ohms at 22°C		
Excited rotor resistance	0.078 Ohms per phase at 22℃		
Waveform distortion	No load $<1.5\%$ non-distorting balanced linear load $<5.0\%$		
Maximum overspeed	2250 Rev/Min		
Bearing drive end	BALL.6312-2RS.(ISO)		
Bearing non-drive end	BALL.6306-2RS.(ISO)		
Packing crate size	105X57X96 (cm)		
Telephone interference	THF<50		
Cooling air	0.216m3/sec 458 cfm		

Alternator options			
Stamford	UCI 224F		
Leroy Somer	TAL-A44-C		
Lees	LA 224F		









Deepsea control module 🔶 Model: 6020

The DSE6020 is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single, diesel or gas, gen-set applications.

Monitoring an extensive number of engine parameters, the modules will display warnings, shutdown and engine status information on the back-lit LCD screen, illuminated LEDs, remote PC and via SMS test alerts (with external modem).

The DSE6020 will also monitor the mains (utility) supply. The modules include USB, RS232 and RS485 ports as well as dedicated DSENet terminals for system expansion.

Key Features:

- 4-line back-lit LCD text display
- Five key menu navigation
- Front panel editing with PIN protection
- LED and LCD alarm indication
- Customisable status screens
- Power save mode
- Support for up to three remote display units
- 9 configurable inputs
- 8 configurable outputs
- Flexible sender inputs
- Configurable timers and alarms
- 3 configurable maintenance alarms
- Multiple date and time scheduler
- Configurable event log (250)
- Control logic facilities
- Easy access diagnostic page
- CAN and Magnetic Pick-up / Alt. Sensing
- Fuel usage monitor and low fuel alarms
- Charger alternator failure alarm
- Manual speed control
- Manual fuel pump control

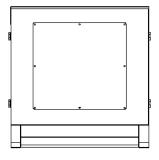
- Engine exerciser
- "Protections disabled" feature
- kW overload protection
- Power monitoring
- Load switching (load shedding and dummy load outputs)
- Automatic load transfer
- Unbalanced load protection
- Independent Earth Fault trip
- USB connectivity
- Backed up real time clock
- Fully configurable via DSE Configurable Suite PC software
- Configurable display languages
- Remote SCADA monitoring via DSE Configuration Suite PC software
- User selectable RS232 and RS485 communications
- SMS Messaging (additional external modem required)
- Additional display screens to help with modem diagnostics
- DSENet expansion compatible
- Integral PLC editor

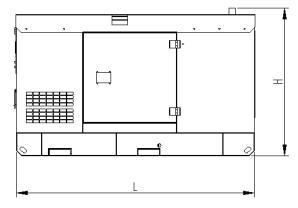


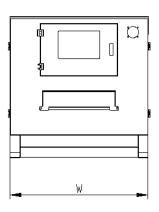




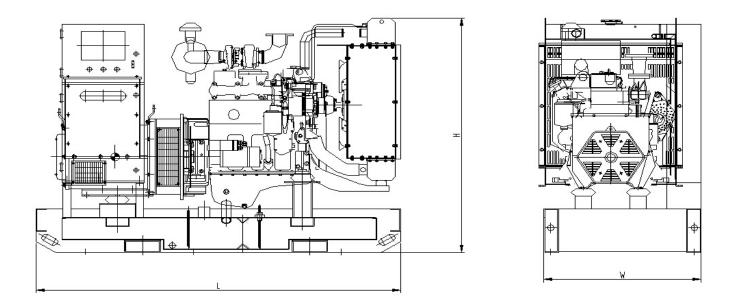
Overview dimension & Sound levels







LSP72S3 (Silent type)				
Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight(kg)
Enclosed set	2452	955	1450	1290



LSP72E3 (Open type)				
Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight(kg)
Open set	1760	760	1380	970



Generating Sets Standard and Optional Features

Engine:

- 4-stroke, water-cooled diesel engine
- Standard air filter
- Standard fuel filter
- Standard oil filter
- Oil temperature sensor
- Low coolant level sensor
- 24V electrical system
- Radiator with blowing fan
- Industrial silence
- Fuel water separator (optional)
- Water jacket heater (optional)

Alternator:

- Class H insulation
- IP23 Protection
- Automatic Voltage Regulator (AVR)
- PMG excitation
- Single bearing alternator
- Lees alternator
- Stamford alternator (optional)

Electrical system:

- DSE 6020 control module
- Maintenance-free and anti-explosion battery
- Standard breaker
- ABB breaker (optional)
- ATS (optional)

- Battery charger (optional)
- GMS monitoring (optional)

Packing:

- Engine manual
- Alternator manual
- Gensets operation and maintenance manual
- Tool kit

Baseframe:

- Forklift pockets
- Pulling slots
- Earth wire protection
- Built-in anti vibration mountings
- Fuel outlet value
- Standard 8 hours fuel tank
- Enlarged 24 hours fuel tank (optional)
- Separated fuel tank (optional)

Canopy:

- Weatherproof & sound-attenated canopy
- Sound-absorbing material
- Lifting lug
- Emergency stop button
- Inside silencer
- Trailer (optional)

Contact your distributor / dealer for more information

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