



LSP35S3-6

Powered by **SPerkins**



Diesel

PN

Model		LSP35S3-6
Standby Dower	KVA	35.2
Standby Power	KW	28.16
Prime Power	KVA	32
	KW	25.6
Frequency	Hz	60
Voltage	V	208/416
Rated speed	rpm	1800

Perkins is one of the largest engine manufacturer in the world with more than 4000 business outlets, prodiving 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, diesle fuel geneator 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: 404D-22TG

Main features:

- The 400 series engine family continues to set new standards in the compact engine market. Developed alongside customers to fulfill their needs in the genset, compressor, agricultural and general industrial markets.
- These new ElectropaKs provide compact power, from a robust family of 3 and 4 cylinder diesel engines designed to provide economic and durable operation at Prime and Standby duties, hitting the key power nodes requires by the power generation industry.
- Long-term Power Solution
 The 400 range of ElectropaKs has been designed to fully comply with stringent EU and EPA emissions regulations, providing an emissions compliant power solution for the future.
- 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

- Mechanically governed cassette type fuel injection pump
- Split element fuel filter

Lubrication system

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

Cooling system

- Thermostat controlled system with belt driven coolant pump and pusher fan
- Mounted radiator, piping and guards

Electrical equipment

- 12V starter motor and 12V 65A alternator with DC output
- Glow plug cold start aid and heater/starter switch
- 12V shut down solenoid energized to run cold start aid
- Oil pressure and coolant temperature switches

Flywheel and housing

 High inertia flywheel to SAE J620 size 7 1/2 Heavy flywheel housing SAE 4 Long

Mountings

• Front and rear engine mounting brackets









Perkins engine → Model: 404D-22TG

General data				
Cylinder No.	4			
Cylinder arrangement	Vertical in-line			
Cycle	4 stroke			
Induction system	Naturally aspirated			
Combustion system	Indirect injection			
Cooling system	Water-cooled			
Bore X Stroke (mm)	84X100			
Displacement (L)	2.216			
Compression ratio	23.3:1			
Direction of rotation	Anti-clockwise, viewed on flywheel			
Lubrication capacity (L)	10.6			
Coolant capacity (L)	7.0			
Dimension (LXWXH) (mm)	915X477X840			
Dry weight (kg)	242			

Fuel consumption				
Engine speed	1800 rev/min			
Fuel consumption	g/hr	l/hr		
Standyby	252	7.1		
Prime power	245	6.2		
75% of prime power	247	4.7		
50% of prime power	269	3.4		

Engine ratings							
Engine speed	Type of operation	Generator output (net)		Gross engine power		Net engine power	
rmp		kVA	kWe	kWm	bhp	kWm	bhp
1800	Prime power	24	19.2	22.0	29.5	21.6	29.0
1800	Standby power	26.6	21.3	24.3	32.6	23.9	32.1

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



LEES alternator Model: S0L2-P1

Main features:

- Self excited control or auxiliary winding to provide sustained short circuit capability •
- Easy access for installation and maintenance •
- 2/3 pitch winding as standard, to avoid excessive neutral currents
- Advance automatic voltage regulator (AVR) control
- Single or two bearing construction with dynamically balanced rotor and sealed-for-life bearings
- IP23 as standard

Alternator specifications				
Control system	Self excited			
A.V.R.	480			
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	0.232 Ohms per phase at 22 °C series star connected			
Rotor wdg. resistance	0.806 Ohms at 22°C			
Excited stator resistance	16.126 Ohms at 22 ℃			
Excited rotor resistance	0.055 Ohms per phase at 22°C			
Waveform distortion	No load $<$ 1.5% non-distorting balanced linear load $<$ 5.0%			
Maximum overspeed	2250 Rev/Min			
Bearing non-drive end	BALL.6305-2RS1 (ISO)			
Packing crate size	93X59X76 (cm)			
Telephone interference	THF<50 (60HZ)			
Cooling air	0.126 m3/sec			

Alternator options			
Stamford S0L2-P1			
Leroy Somer	TAL A42 C		
Lees	LA184F		









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

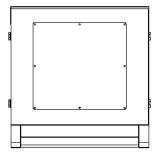
- Engine exerciser
- "Protectons disabled" feature
- kW overload protection
- Power monitoring
- Load switching (load shedding and dummy load outputs)
- Automatic load transfer
- Unbalanced load protection
- Independent Earth Fault trip
- USB connectivity
- Backed up real time clock
- Fully configurable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

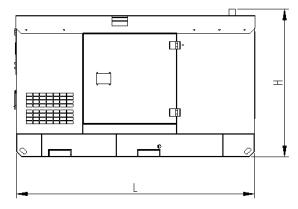


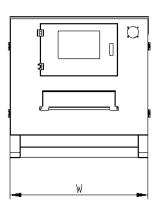




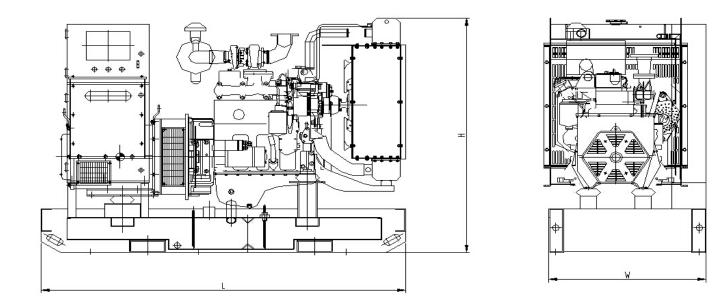
Overview dimension & Sound levels







LSP35S3-6 (Silent type)					
Configuration L= Length (mm) W= Width (mm) H= Higth (mm) Weight (kg)					
Enclosed set	2110	900	1200	960	



LSP35E3-6 (Open type)					
Configuration	Configuration L= Length (mm) W= Width (mm) H= Higth (mm) N				
Open set	1470	690	1150	750	



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 (optioanl)

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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