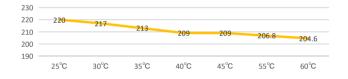




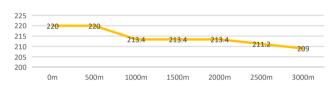


MODEL			LSP220S3	
Power Pf.0.8	Standby	kVA	220	
		kW	176	
	Prime	kVA	200	
		kW	160	
	Frequency	Hz	50	
	Voltage	V	230/400	
	Rated speed	rpm	1500	

Temperature (Celsius) Derate Curves
Unit: kVA



Altitude (meters) Derate Curves Unit: kVA



Standard reference Conditions:

Standard reference condition 25° C (77° F) air inlet temp, 100m (328ft) A.S.L 30% relative humidity. Fuel consumption data with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998, Class A2.

LEES generator sets meet the standards of

ISO9001, CE, BS5000, ISO 8528, ISO 3046, IEC 60034, NEMA MG-1.22.





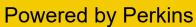


Standard Features

- LEES Power provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The generator set complies with ISO 8528-5, Class G3 requirements for transient performance.
- · The generator set accepts rated load in one step.
- The 50Hz generator set engine is certified by the Environmental Protection Agency (EU or MEP) to conform to EU2、EU3 nonroad emissions regulations.(≤560KW)
- A one-year limited warranty covers all systems and components. Two-, five-, and ten-year extended warranties are also available.

Generator Features

- The brushless, rotating-field generator has broadrange reconnectability.
- The pilot-excited, permanent-magnet generator (PMG) provides superior short-circuit capability
- Controllers are available for all applications. See controller features inside.
- The low coolant level shutdown prevents overheating (standard on radiator models only).
- Integral vibration isolation eliminates the need for under-unit vibration spring isolators.
- An electronic, isochronous governor delivers precise frequency regulation.
- Electronic engine controls and a generator microprocessor controller combine to deliver one of the most advanced control systems in today's generator market.





Engine Specifications						
Manufacturer / Model	PERKINS 1106A-70TAG4					
Cylinder No.& Configuration	6 cylinder Diesel L type					
Working Mode	Turbocharged and Aftercooled (Jacket water to cooler)					
Bore x Stroke	105*135mm					
Displacement	7.01L					
Compression Ratio	16:1					
Rated Power	178.9kW					
Rated Speed	1500					
Lubrication System	Splash Lubrication					
Lube Oil	Conforms above CF class or SAE10W-30,15w-40					
Lube Oil Capacity	18L					
Battery Capacity	6-QW-80(600)*1					
Fuel Type	Diesel:0#(Summer),-10#(Winter),-35#(Cold)					
Fuel Consumption 25% load	12.6L/H					
Fuel Consumption 50% load	23.1L/H					
Fuel Consumption 75% load	34.6L/H					
Fuel Consumption 100% load	41.4L/H					



ALTERNATOR SPECIFICATION 4-Pole, Rotating-Field Type Exciter type Brushless, Permanent-Magnet, Pilot Exciter Voltage regulator Solid-State, Volts/Hz Insulation NEMA MG1, Class H Material Synthetic, Nonhygroscopic Temperature rise Prime 130°C, 150°C Standby Bearing: quantity, type 1, Sealed Coupling Flexible Disc Full Amortisseur windings 125% 60 Hz, 150% 50 Hz Rotor balancing Voltage regulation, no-load to full-load(with < 0.5% drift 3-Phase Sensing, $\pm 0.25\%$ due to temp. variation One-step load acceptance 100% of Rating 100% of Rated Standby Unbalanced load capability

- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the generator field.
- Self-ventilated and dripproof construction.
- Superior voltage waveform from two-thirds pitch windings and skewed stator.
- Digital solid-state.volts-per-hertz voltage regulator with ±0.25% no-load to full-load regulation.
- Brushless alternator with brushless pilot exciter for excellent load response.



Powered by Perkins

Controller

Audiovisual annunciation with NFPA 110 Level 1 capability. Programmable microprocessor logic and digital display features. Safeguard circuit protection standard.

12- or 24-volt engine electrical system capability.

Remote start, remote annunciation, and remote communication options. Refer to M6-46 for additional controller features and accessories





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
- · Configurable display languages
- User selectable RS232 and RS485 communications
- SMS Messaging (additional external modem required)
- · Additional display screens to help with modem diagnostics
- Integral PLC editor



MODEL: LSP220S3

Powered by Perkins

Generating Sets Standard and Optional Features

- · 4-stroke, water-cooled diesel engine
- · Standard air filter
- · Standard fuel filter
- Standard oil filter
- Oil temperature sensor
- Low coolant level sensor
- Radiator with blowing fan
- Industrial Grade Silencer
- Fuel water separator
- · Water jacket heater (optional)
- Class H insulation
- IP23 Protection
- Automatic Voltage Regulator (AVR)
- · PMG excitation (optional)
- · Single bearing alternator
- **Alternator**

Engine

- Class F or class B temperature rise (optional)
- Digital Voltage Regulator (optional)
- · Double bearing (optional)
- · Anti-Condensation Heater (optional)
- IP41 Protection (optional)
- · Maintenance-free and anti-explosion battery
- Standard breaker
- · ABB breaker (optional)
- ATS (optional)
 - Battery charger (optional)
 - GMS monitoring (optional)

Packing

Electrical system

- · Engine manual
- Alternator manual
- Gensets operation and maintenance manual
- Tool kit
- · Forklift pockets
- Pulling slots
- Earth wire protection
- Built-in anti vibration mountings

Baseframe

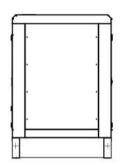
- · Fuel outlet value
- · Standard fuel tank
- · Enlarged fuel tank (optional)
- · Separated fuel tank (optional)

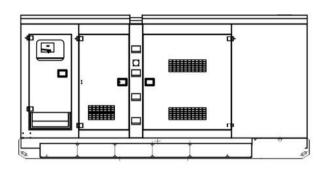
Canopy

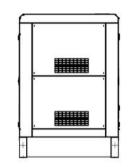
- Weatherproof & sound-attenated canopy
- Sound-absorbing material
- Lifting lug
- · Emergency stop button
- Inside silencer



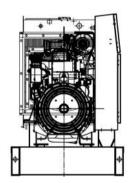
Overview Dimension & Weight

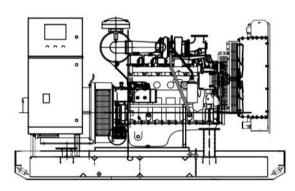


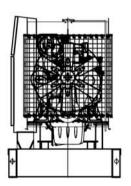




LSP220S3 (Silent type)							
Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)	Fuel Tank Capacity(L)		
Silent Type	3360	1110	1750	1970	412		







LSP220E3 (Open type)							
Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)	Fuel Tank Capacity (L)		
Open Type	2650	960	1650	1490	240		



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