

LSP2250S3

Powered by Perkins®

- 50HZ
- Water-cooled
- Three Phase
- Diesel

Model		LSP2250S3
Standby Power	KVA	2250
	KW	1800
Prime Power	KVA	2000
	KW	1600
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: 4016TAG2A**Main features:**

- Economic power
 - ☞ Individual four valve per cylinder heads give optimized gas flows, whilst digitally governed unit fuel injectors ensure ultra fine fuel atomization and hence controlled rapid combustion, for efficiency and economy
 - ☞ Commonality of components with other engines in the 4000 Series family allows reduced parts stocking levels
- Reliable power
 - ☞ Developed and tested using the latest engineering techniques and finite element analysis for high reliability
 - ☞ Low oil usage and low wear rates
 - ☞ High compression ratio ensures clean rapid starting in all conditions
 - ☞ Support comes from a worldwide network of 4,000 distributors and dealers
- Compact, clean and efficient power
 - ☞ Exceptional power to weight ratio and compact size gives optimum power density for ease of installation and more cost effective transportation
 - ☞ Designed to provide excellent service access for ease of maintenance
- 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 actuated electronically controlled unit fuel injectors with full authority electronic control
- Governing to ISO 8528-5 class G2 with isochronous capability
- Replaceable 'Ecoplus' fuel filter elements with primary filter/water separator
- Fuel cooler

Lubrication system

- Wet sump with filter and dipstick
- Full-flow replaceable 'Ecoplus' filter
- Oil cooler integral with filter header

Cooling system

- Gear-driven circulating pump
- Mounted belt-driven fan
- Radiator supplied loose incorporating air-to-air charger cooler
- System designed for ambient up to 50 °C

Electrical equipment

- 24V starter motor and 24V 70A alternator with DC output
- ECM mounted on engine with wiring looms and sensors
- 3 level engine protection system

Perkins engine → Model: 4016TAG2A

General data	
Cylinder No.	16
Cylinder arrangement	60° Vee
Cycle	4 stroke, compression ignition
Induction system	Turbocharged
Compression ratio	13.6:1
Bore X Stroke (mm)	160X190
Cubic capacity (L)	61.123
Dry weight (kg)	5570
Wet weight (kg)	5847
Dimension (LXWXH) (mm)	2128X3302X1732

Fuel consumption		
Engine speed	1500 rev/min	
Fuel consumption	g/kwh	l/hr
Standby power	212	483
Prime power	209	434
Baseload power	205	341
75% of prime power	203	316
50% of prime power	202	210
25% of prime power	212	110

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	Separately excited by PMG
A.V.R.	MX341
Voltage regulation	±1.0%
Insulation system	Class H
Protection	IP23
Stator winding	Double layer lap
Winding pitch	2/3
Winding leads	6
Stator wdg. resistance	0.00114 Ohms per phase at 22°C series star connected
Rotor wdg. resistance	2.42 Ohms at 22°C
Excited stator resistance	16 Ohms at 22°C
Excited rotor resistance	0.056 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 drive end	BALL.6228 C3
Bearing non-drive end	BALL.6319 C3
Packing crate size	216X105X154 (cm)
Telephone interference	THF <2% (50Hz)
Cooling air	2.69m3/sec 5700 cfm

Alternator options

Stamford	S7L1D-H4
Leroy Somer	LSA52.3S7
Mecc Alte	ECO46 1L4 A

Deepsea control module → Model: 7320

The DSE7320 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 text alerts (with external modem).

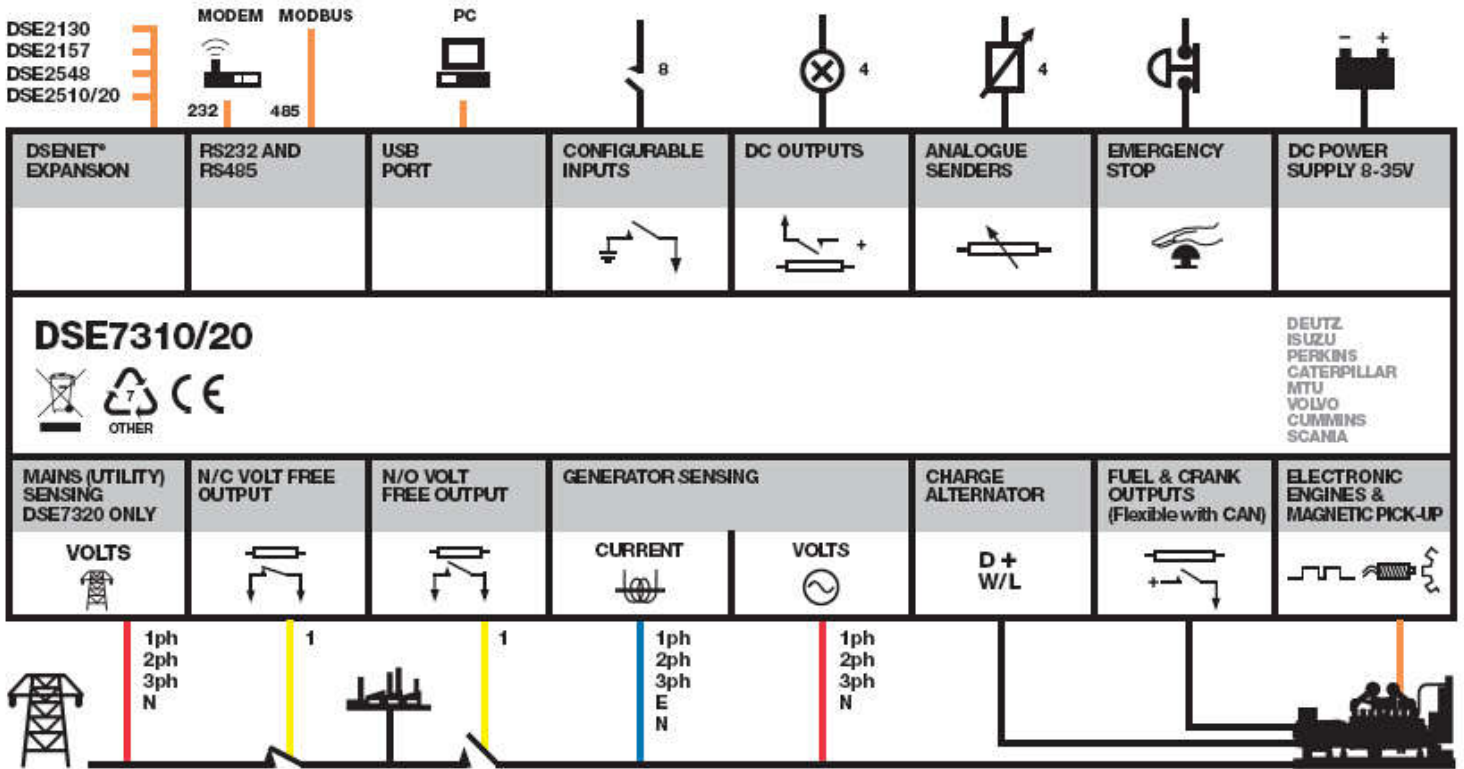
The DSE7320 will also monitor the mains (utility) supply. The modules include USB, RS232 and RS485 ports as well as dedicated DSENet terminals for system expansion.



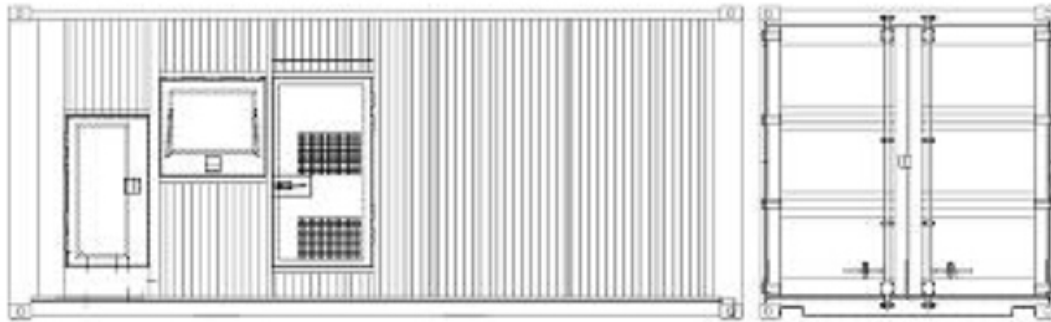
Key Features:

- 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

Deepsea control module → Model: 7320

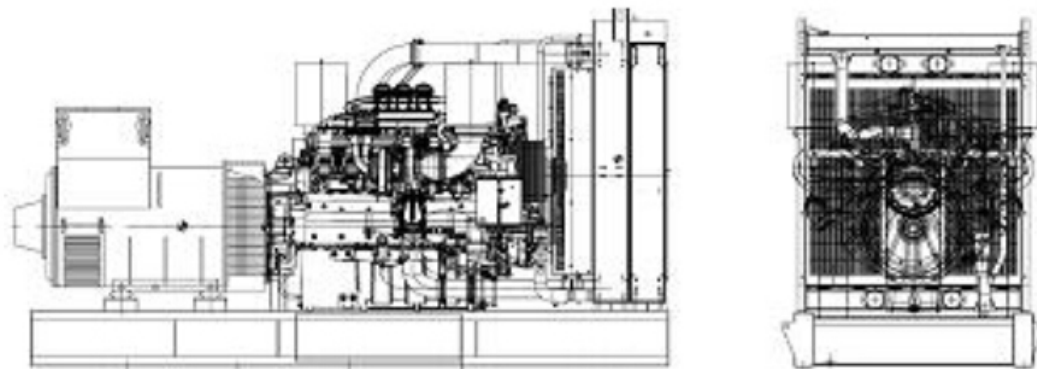


Overview dimension & Sound levels



LSP2250S3 (Container type)

Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight(kg)
Enclosed set	ISO 40'HQ			15500



LSP2250E3 (Open type)

Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight(kg)
Open set	6000	2700	3400	11500

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 7320 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 valve
- Standard 8 hours fuel tank
- **Enlarged 24 hours fuel tank (optional)**
- **Separated fuel tank (optional)**

Canopy:

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

Contact your distributor / dealer for more information

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