

LSIC550S3



Powered by Cummins G-Drive



50HZ



Water-cooled



Three Phase



Diesel

Model		LSIC550S3
Standby Power	KVA	550
	KW	440
Prime Power	KVA	500
	KW	400
Frequency	Hz	50
Voltage	V	230/400
Rated speed	rpm	1500

Cummins G-Drive engines help to keep the world on the move. A global leader in diesel engine manufacturing for over 90 years, Cummins G-Drive engines deliver everything from prime power to standby systems for offices, data centres, telecoms, hospitals and a huge variety of other applications worldwide.

Cummins G-Drive QSX15 --- A revolution in diesel power generation

Providing uncompromising power coupled with ultra low emissions in a compact package, the QSX15-Series is the first heavy-duty diesel engine with 24-valve dual overhead camshaft technology. Using 30% fewer parts than comparable diesels, it is engineered to eliminate external lube, coolant and fuel lines for higher reliability at high power output. Ideal for open and enclosed applications in static or portable equipment, it can be matched to meet the specific duty cycle and operating conditions of any generator set.

Cummins G-Drive Engine → Model: QSX15G8


Cummins QSX15G8: In-line, 4 Cycle, Turbo-charged, Diesel Engine	
Bore X Stroke (mm)	137x169
Displacement (L)	15
Cylinder block	Cast iron, 6 cylinder
Battery charging alternator (A)	35
Starting voltage (V)	24
Fuel system	Direct injection
Fuel filter	Spin-on fuel filters with water separator
Lube oil filter type	Spin-on full flow filter
Lube oil capacity (L)	91
Flywheel dimensions	SAE1

Cooling system	
Cooling system design	Air-air charge cooled
Coolant ratio	50% ethylene glycol, 50% water
Coolant capacity (L)	42
Limiting ambient temp (°C)	55
Fan power (kWm)	16
Cooling system air flow (m3/s)	11.8
Air cleaner type	Light duty dry replaceable element with restriction indicator

Weight & Dimensions	
Length (mm)	2269
Width (mm)	1332
Height (mm)	1669
Weight (dry) (kg)	1658

Fuel consumption 1500 (50Hz)	
Prime power (100%) (kWm)	444
Prime power (75%) (kWm)	333
Prime power (50%) (kWm)	222
Prime power (25%) (kWm)	111

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	
Number of phase	3
Connecting type	3 Phase 4 Wire, "Y" type connecting
Number of bearing	1
Protection grade	IP23
Exciter type	Brushless, self-exciting
Insulation class, Temperature rise	H/H
Telephone Influence Factor (TIF)	<50
THF	<2%
Voltage Regulation, Steady state	≤±1%
Alternator capacity	500kVA
Alternator efficiencies	93.8%
Air cooling flow	1.035m ³ /s

Alternator options	
Stamford	S5L1D-D4
Leroy Somer	TAL047D
Lees	LA 5D





Deepsea control module → Model: 7320



The DSE7320 is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of diesel or gas genset 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).

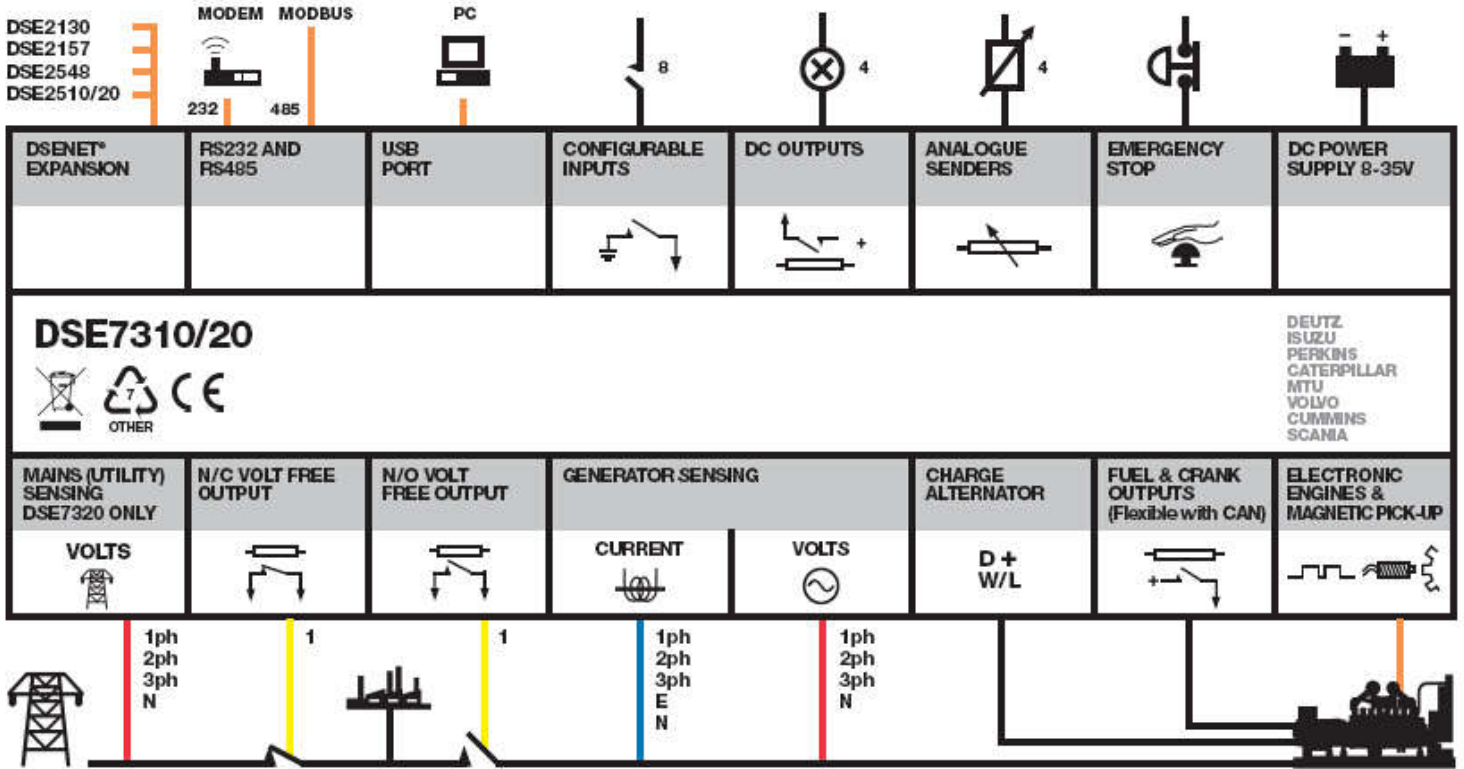
The DSE7320 will also monitor the mains (utility) supply. The modules include USB, RS232 and RS485 ports as well as dedicated DSENet terminals for system expansion.



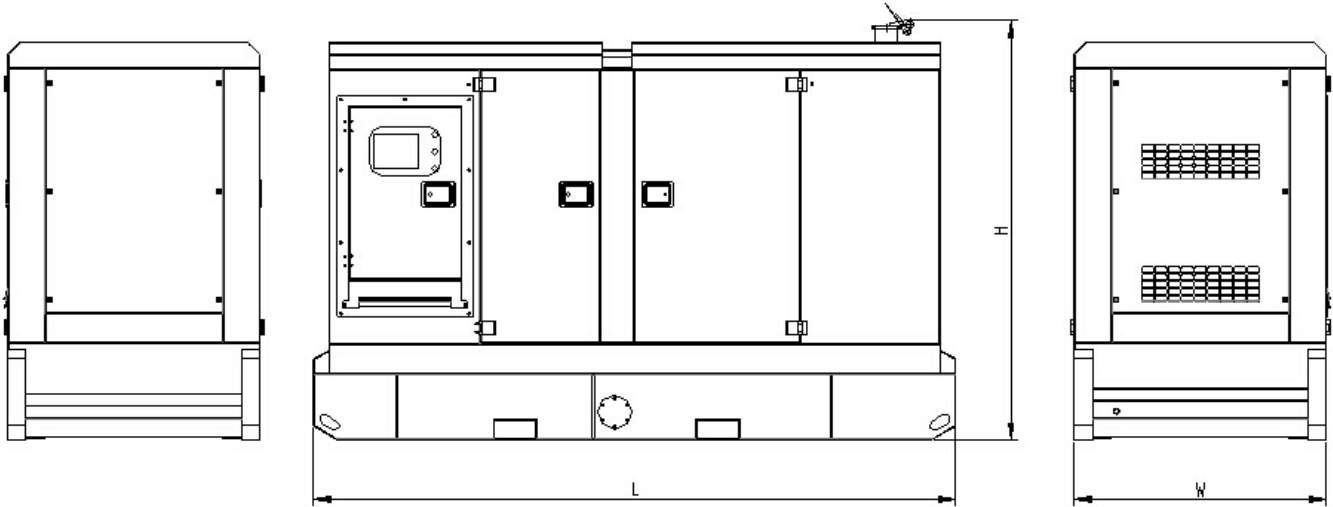
Key Features:

- 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
- "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 Configurable Suite PC software
- Configurable display languages
- Remote SCADA monitoring via DSE Configuration Suite PC software
- 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

Deepsea control module → Model: 7320

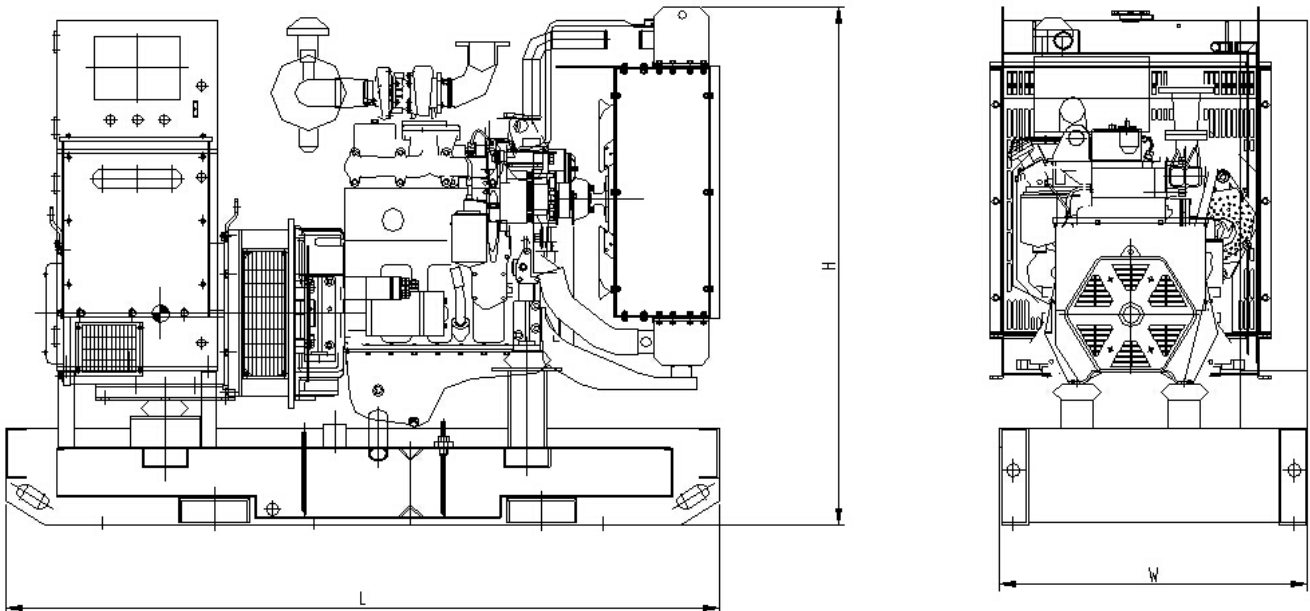


Overview dimension & Sound levels



LSIC550S3 (Silent type)

Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)
Enclosed set	4700	1630	2400	4820



LSIC550E3 (Open type)

Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)
Open set	3400	1258	2050	3850

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

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 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
- **Trailer (optional)**

Contact your distributor / dealer for more information

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