



# **LSC125S3**

# Powered by Cummins





50HZ



Water-cooled



Three Phase



Diesel

Model		LSC125S3
Standby Power	KVA	125
	KW	100
Prime Power	KVA	115
	KW	92
Frequency	Hz	50
Voltage	V	230/400
Rated speed	rpm	1500

Cummins has distributors in 137 countries and regions, 5000 service networks spread all over the world. As the largest foreign investor of Chinese engine manufacturing industry, Cummins own Chongqing Cummins facility (producing M, N, and K series diesel engine) and Dongfeng Cummins facility (producing B, C, and L series diesel engine). Lees is the OEM partner of Cummins engine.

- Performance---Wider power ranges mean greater versatility for use in more applications: commercial, institutional, industrial, utilities, communications, government and more.
- Lower operating and maintenance costs---An increase in oil change intervals, longer life of components, longer top-end as well as full-overhaul periods, and reduced fuel consumption result in lower operating and maintenance costs..
- Easy operation---Each generator set is equipped with a baseframe-mounted control cabinet, together with Deep Sea 7320 controller as standard, and integral circuit breaker, ensuring a dependable and user-friendly operating system.
- Improved serviceability---Every Lees components was designed with serviceability in mind, resulting in simple, robust components that makes servicing fast and easy. The entire engine is built with internationally available tools and hardware.



# Cummins engine → Model: 6BTA5.9-G2

#### Main features:

Accessory drive

Single Poly Vee belt drive for fan, alternator and water pump, with self-tensioning idle for minimum maintenance

Complete rebuild ability

Cylinder block has multiple rebore capability. Service cylinder sleeves and valve guides are also available

Low fuel consumption

Excellent fuel consumption with B.S.F.C 215g/kw.h

Cold start capability

Minimum ambient temperature for unaided cold start -12  $^{\circ}$ C

Minimum ambient temperature for aided (with coolant heater) cold start -35  $^{\circ}\mathrm{C}$ 

Cummins 6BTA5.9-G2: in-line, 6 cylinder, 4 cycle, turbocharged and after-cooler diesel engine			
Bore X Stroke (mm)	102x120		
Displacement (L)	5.9		
Compression ratio	17.5:1		
Rated speed (rpm)	1500/1800		
Prime power (kW)	120/132		
Standby power (kW)	132/140		
Fuel injection pump	AD injection pump		
Governor	GAC electric governor		
Steady speed droop	≤1% (Electrical governor)		
Lubricant capacity (L)	16.4		
Coolant capacity (L)	9.1 (engine only)		
Net weight (kg)	411		
Gross weigh (kg)	437		
Overall dimension (LXWXH) (mm)	996X711X992		
Coolant intake size	⊄ 58 mm		
Coolant outlet size	⊄ 45 mm		
Flywheel/Flywheel housing	SAE3#/ SAE3#		
Cooling system	Forced water cooling cycle		

Performance data			
Standard air intake temperature	<b>25</b> ℃		
Air intake pressure (kPa)	100		
Standard light diesel	0# / -10# light diesel		
Fuel intake temperature	40		
Air intake restriction (mmHg)	251		
Exhaust back pressure (mmHg)	76		
Lubrication oil	15W40-CF4 Upgrade		





### **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 lap		
Winding pitch	2/3		
Winding leads	12		
Stator wdg. resistance	0.044 Ohms per phase at 22℃ series star connected		
Rotor wdg. resistance	1.26 Ohms at 22 ℃		
Excited stator resistance	20 Ohms at 22℃		
Excited rotor resistance	0.091 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.6315-2RS (ISO)		
Bearing non-drive end	BALL.6310-2RS (ISO)		
Packing crate size	105X67X103 (cm)		
Telephone interference	THF<2% (50Hz)		
Cooling air	0.514 m3/sec 1090 cfm		

Alternator options		
Stamford	UCI 274D	
Leroy Somer	TAL-A44-E	
Lees	I A 274D	

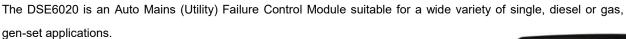








## Deepsea control module Model: 6020





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.



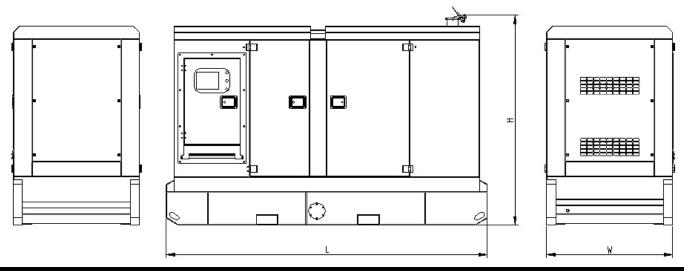
### **Key Features:**

- 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

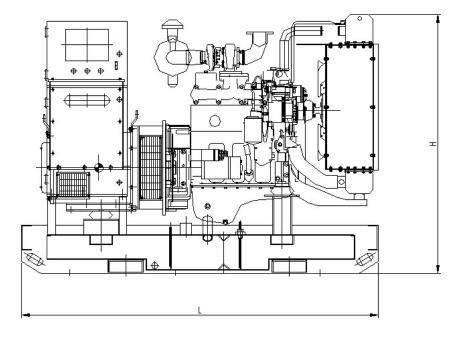
- Engine exerciser
- "Protections disabled" feature
- kW overload protection
- Power monitoring
- Load switching (load shedding and dummy load outputs)
- Automatic load transfer
- Unbalanced load protection
- Independent Earth Fault trip
- USB connectivity
- Backed up real time clock
- Fully configurable 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

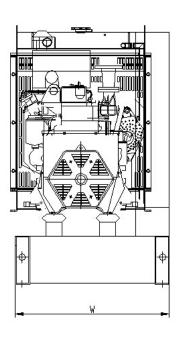


### **Overview dimension & Sound levels**



LSC125S3 (Silent type)				
Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)
Enclosed set	3360	1110	1750	1750





LSC125E3 (Open type)				
Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)
Open set	2380	930	1600	1300



### **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 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

### **WUXI LEES POWER COMPANY LIMITED**

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