



Model		LSC24S3
Ctondby Dowor	KVA	24
Standby Power	KW	19
Prime Power	KVA	20
	KW	16
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: 4B3.9-G11

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 4B3.9-G11					
Bore X Stroke (mm)	102x120				
Displacement (L)	3.9				
Compression ratio	18:1				
Cylinder NO.	4				
Aspiration	Naturally aspirated				
Fuel system	WF A/RSV				
Governor regulation	<6%				

Engine speed	Standby power		Prime power		Continuous power	
RPM	kW	HP	kW	HP	kW	HP
1500	22	29	20	27	TBD	TBD
1800	26	35	23	31	TBD	TBD

Engine performance data @ 1500 RPM

OUTPUT POWE	FUEL CONSUMPTION					
%	kW	HP	g/kW.h	L/h		
	STANDBY	POWER				
100	22	29	230	6.1		
PRIME POWER						
100	20	27	236	5.7		
75	15	20	253	4.6		
50	10	14	305	3.7		
25	5	7	390	2.4		
CONTINUOUS POWER						
TBD	TBD	TBD	TBD	TBD		





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	4				
Stator wdg. resistance	0.1410hms per phase at 22 °C series star connected				
Rotor wdg. resistance	0.644 Ohms at 22℃				
Excited stator resistance	14.624 Ohms at 22℃				
Excited rotor resistance0.135 Ohms per phase at 22°C					
aveform distortion No load <1.5% non-distorting balanced linear load <5.0%					
Maximum overspeed	2250 Rev/Min				
Bearing drive end	-				
Bearing non-drive end	BALL.6305-2RS1 (ISO)				
Packing crate size	93X59X76 (cm)				
Telephone interference	THF<2% (50Hz)				
Cooling air	0.126m3/sec 212cfm				

Alternator options				
Stamford S0L2-G1				
Leroy Somer	TAL-A40-F			
Lees	LA 184E			









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.





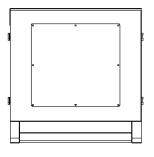
Key Features:

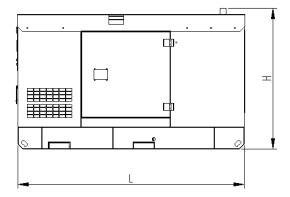
- 4-line back-lit LCD text display
- Five key menu navigation
- Front panel editing with PIN protection
- LED and LCD alarm indication
- Customisable status screens
- Power save mode
- Support for up to three remote display units
- 9 configurable inputs
- 8 configurable outputs
- Flexible sender inputs
- 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

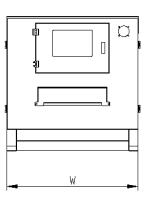
- Engine exerciser
- "Protections disabled" feature
- kW overload protection
- Power monitoring
- Load switching (load shedding and dummy load outputs)
- Automatic load transfer
- Unbalanced load protection
- Independent Earth Fault trip
- USB connectivity
- Backed up real time clock
- Fully configurable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



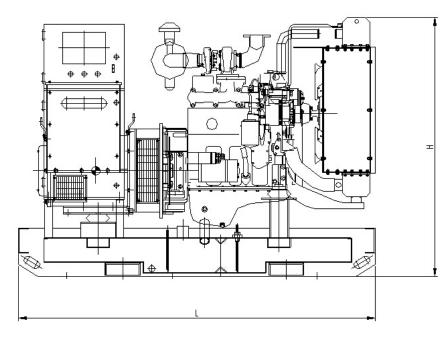
Overview dimension & Sound levels

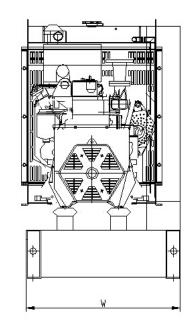






LSC24S3 (Silent type)						
Configuration L= Length (mm) W= Width (mm) H= Height (mm) Weight (kg)						
Enclosed set	2310	980	1600	1050		





LSC24E3 (Open type)						
ConfigurationL= Length (mm)W= Width (mm)H= Height (mm)Weight (kg)						
Open set	1800	840	1450	700		



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

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