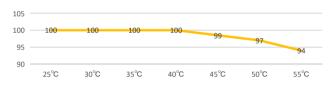




MODEL			LSC100S3		
Power Pf.0.8	Standby	kVA	100		
		kW	80		
	Prime	kVA	90		
		kW	72		
	Frequency	Hz	50		
	Voltage	V	230/400		
	Rated speed	rpm	1500		

Temperature (Celsius) Derate Curves Unit: kVA



Altitude (meters) Derate Curves Unit: kVA



LEES generator sets meet the standards of ISO9001, CE, BS5000, ISO 8528, ISO 3046, IEC 60034, NEMA MG-1.22.

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.



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 50Hz generator set offers a AUS 2012 listing and CE 2015 listing.
- >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
- 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.

RATINGS: All three-phase units are rated at 0.8 power factor. Standby ratings: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. Prime power ratings: Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-3528/1, overload power in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. For limited running time and base load ratings, consult LEES. Obtain the technical information bulletin (TIS-101) on ratings guidelines for the complete ratings definitions. LEES reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.



Cummins engine Model: 4BTA3.9-G13

Main features:

· Accessory drive

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

· Complete rebuild ability

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

· Compact size

Easy for installation and ready access for routine maintenance

• Filters

Fleetguard spin-on fuel filter and full-flow lubricating oil filter

· Cold start capability

Minimum ambient temperature for unaided cold start -12°C

Minimum ambient temperature for aided (with coolant heater) cold start -35°C

Engine Specifications

Engine Brand ·····		Cummins	
Engine Model ·····		4BTA3.9-G13	
Cylinder No.& Configuration		4 cylinder Diesel L type	
Working Mode ····		Turbocharged and air-cooled charge air	
Bore x Stroke	mm	102*120	
Displacement	L	3.9	
Compression Ratio		18:1	
Rated Power	kW	87	
Rated Speed ·····		1500	
Lubrication System		Splash Lubrication	
Lube Oil		Conforms above CF class or SAE10W-	
		30,15w-40	
Lube Oil Capacity ·····	L	10.9	
Battery Capacity ·····		6-QW-45(380)*2	
Fuel Type		Diesel:0#(Summer),	
		-10#(Winter),-35#(Cold)	
Fuel Consumption 25% load	L/H	6.1	
Fuel Consumption 50% load	L/H	10.1	
Fuel Consumption 75% load	L/H	14.1	
Fuel Consumption 100% load	L/H	18.8	





Alternator

Type Exciter type

Voltage regulator
Insulation
Material
Temperature rise
Bearing: quantity, type
Coupling
Amortisseur windings
Rotor balancing
Voltage regulation, no-load to
full-load(with < 0.5% drift due
to temp. variation
One-step load acceptance
Unbalanced load capability

4-Pole, Rotating-Field Brushless, Permanent-Magnet, Pilot Exciter Solid-State, Volts/Hz NEMA MG1, Class H Synthetic, Nonhygroscopic 130°C, 150°C Standby 1, Sealed Flexible Disc Full 125% 60 Hz, 150% 50 Hz

3-Phase Sensing, $\pm 0.25\%$

100% of Rating 100% of Rated Standby

- 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.

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



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
- > 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
- Class F or class B temperature rise (optional)
- Digital Voltage Regulator (optional)
- Double bearing (optional)
- Condensed heater (optional)
- > IP41 Protection (optional)

Electrical system

- 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

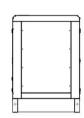
Baseframe

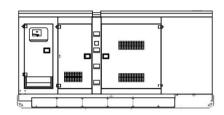
- Forklift pockets
- Pulling slots
- Earth wire protection
- > Built-in anti vibration mountings
- Fuel outlet value
- Standard fuel tank
- Enlarged fuel tank (optional)
- Separated fuel tank (optional)

Canopy

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

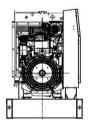
Overview Dimension & Weight

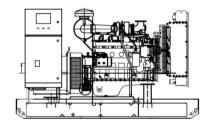


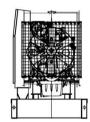




LSC100S3 (Silent type)						
Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)	Fuel Tank Capacity (L)	
Silent Type	2960	1100	1600	1700	-	







LSC100E3 (Open type)							
Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)	Fuel Tank Capacity (L)		
Open Type	2300	830	1700	1280	-		

Contact your distributor / dealer for more information

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