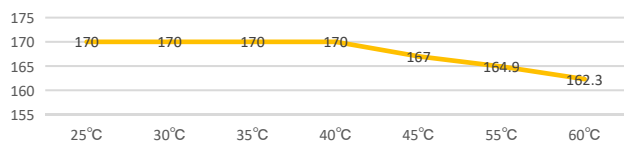


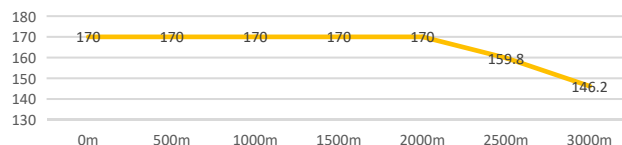


| MODEL           |             |     | LSC170S3 |
|-----------------|-------------|-----|----------|
| Power<br>Pf.0.8 | Standby     | kVA | 170      |
|                 |             | kW  | 136      |
|                 | Prime       | kVA | 155      |
|                 |             | kW  | 124      |
|                 | Frequency   | Hz  | 50       |
|                 | Voltage     | V   | 230/400  |
|                 | Rated speed | rpm | 1500     |

Temperature (Celsius) Derate Curves  
Unit: kVA



Altitude (meters) Derate Curves  
Unit: kVA



### 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.

### LEES generator sets meet the standards of

ISO9001, CE, BS5000, ISO 8528, ISO 3046, IEC 60034, NEMA MG-1.22.



### 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 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
- 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.

## Engine Specifications

|                             |                                             |
|-----------------------------|---------------------------------------------|
| Manufacturer / Model        | Cummins 6BTAA5.9-G12                        |
| Cylinder No.& Configuration | 6 cylinder Diesel L type                    |
| Working Mode                | Turbocharged and air-cooled charge air      |
| Bore x Stroke               | 102*120mm                                   |
| Displacement                | 5.9L                                        |
| Compression Ratio           | 17.3:1                                      |
| Rated Power                 | 140kW                                       |
| Rated Speed                 | 1500                                        |
| Lubrication System          | Splash Lubrication                          |
| Lube Oil                    | Conforms above CF class or SAE10W-30,15w-40 |
| Lube Oil Capacity           | 16.4L                                       |
| Battery Capacity            | 6-QW-60(580)*2                              |
| Fuel Type                   | Diesel:0#(Summer),-10#(Winter),-35#(Cold)   |
| Fuel Consumption 25% load   | 10L/H                                       |
| Fuel Consumption 50% load   | 17L/H                                       |
| Fuel Consumption 75% load   | 26L/H                                       |
| Fuel Consumption 100% load  | 34L/H                                       |

## ALTERNATOR SPECIFICATION

|                                                                                   |                                            |
|-----------------------------------------------------------------------------------|--------------------------------------------|
| Type                                                                              | 4-Pole, Rotating-Field                     |
| Exciter type                                                                      | Brushless, Permanent-Magnet, Pilot Exciter |
| Voltage regulator                                                                 | Solid-State, Volts/Hz                      |
| Insulation                                                                        | NEMA MG1, Class H                          |
| Material                                                                          | Synthetic, Nonhygroscopic                  |
| Temperature rise                                                                  | Prime 130°C, 150°C Standby                 |
| Bearing: quantity, type                                                           | 1, Sealed                                  |
| Coupling                                                                          | Flexible Disc                              |
| Amortisseur windings                                                              | Full                                       |
| Rotor balancing                                                                   | 125% 60 Hz, 150% 50 Hz                     |
| Voltage regulation, no-load to full-load(with < 0.5% drift due to temp. variation | 3-Phase Sensing, $\pm 0.25\%$              |
| One-step load acceptance                                                          | 100% of Rating                             |
| Unbalanced load capability                                                        | 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  $\pm 0.25\%$  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 Grade Silencer
- Fuel water separator
- Water jacket heater (optional)

**Alternator**

- Class H insulation
- IP23 Protection
- Automatic Voltage Regulator (AVR)
- PMG excitation (optional)
- Single bearing alternator
- Class F or class B temperature rise (optional)
- Digital Voltage Regulator (optional)
- Double bearing (optional)
- Anti-Condensation 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

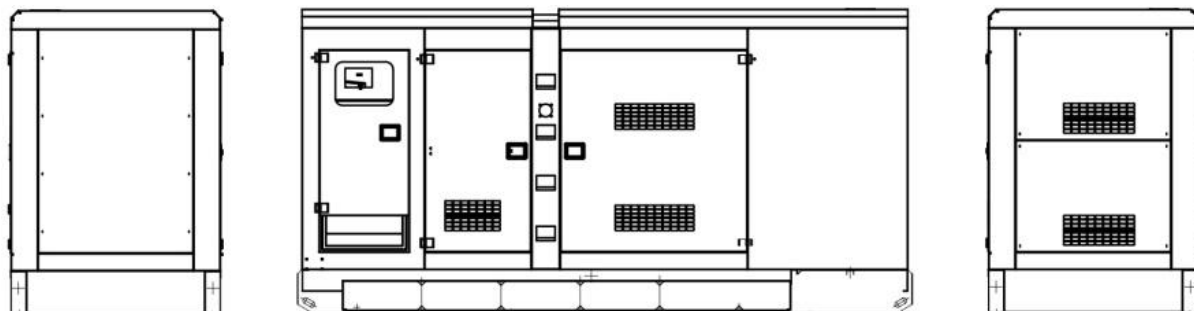
**Baseframe**

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

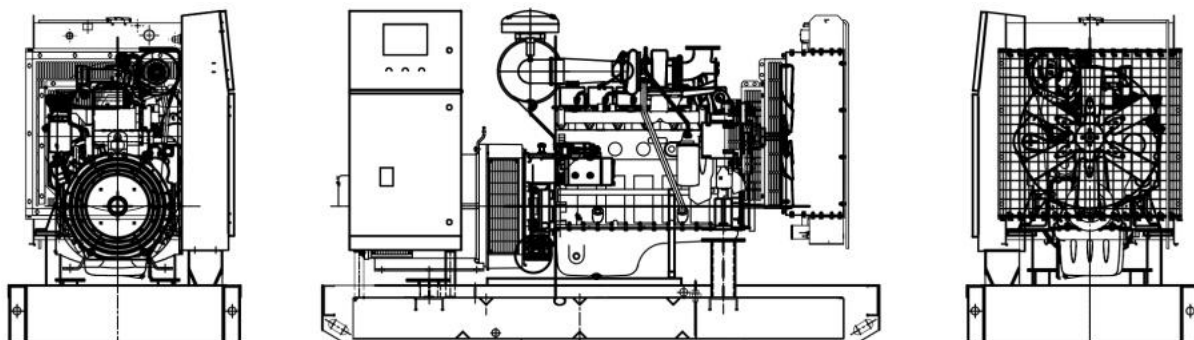
**Canopy**

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

## Overview Dimension & Weight



| LSC170S3 (Silent type) |                |               |                |             |                       |
|------------------------|----------------|---------------|----------------|-------------|-----------------------|
| Configuration          | L= Length (mm) | W= Width (mm) | H= Height (mm) | Weight (kg) | Fuel Tank Capacity(L) |
| Silent Type            | 3360           | 1110          | 1700           | 2100        | 410                   |



| LSC170E3 (Open type) |                |               |                |             |                        |
|----------------------|----------------|---------------|----------------|-------------|------------------------|
| Configuration        | L= Length (mm) | W= Width (mm) | H= Height (mm) | Weight (kg) | Fuel Tank Capacity (L) |
| Open Type            | 2415           | 990           | 1560           | 1460        | 220                    |



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