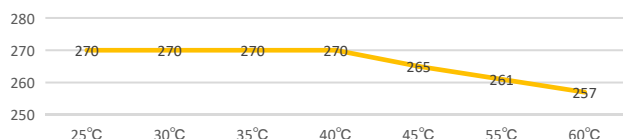


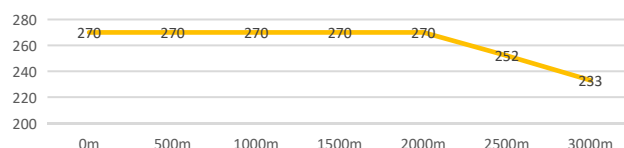


| MODEL | | | LSC250S3-6 |
|-----------------|-------------|-----|---|
| Power Pf.0.8 | Standby | kVA | 250 |
| | | kW | 200 |
| | Prime | kVA | 230 |
| | | kW | 184 |
| | Frequency | Hz | 60 |
| | Voltage | V | 208/120; 220/127; 416/240; 440/254; 480/277 |
| | Rated speed | rpm | 1800 |

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 60Hz 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 6CTAA8.3-G2 |
| Cylinder No.& Configuration | 6 cylinder Diesel L type |
| Working Mode | Turbocharged and air-cooled charge air |
| Bore x Stroke | 114*135mm |
| Displacement | 8.3L |
| Compression Ratio | 18.0:1 |
| Rated Power | 190kW |
| Rated Speed | 1800 |
| Lubrication System | Splash Lubrication |
| Lube Oil | Conforms above CF class or SAE10W-30,15w-40 |
| Lube Oil Capacity | 23.8L |
| Battery Capacity | 6-QW-80(600)*2 |
| Fuel Type | Diesel:0#(Summer),-10#(Winter),-35#(Cold) |
| Fuel Consumption 25% load | 15L/H |
| Fuel Consumption 50% load | 25L/H |
| Fuel Consumption 75% load | 37L/H |
| Fuel Consumption 100% load | 49L/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.



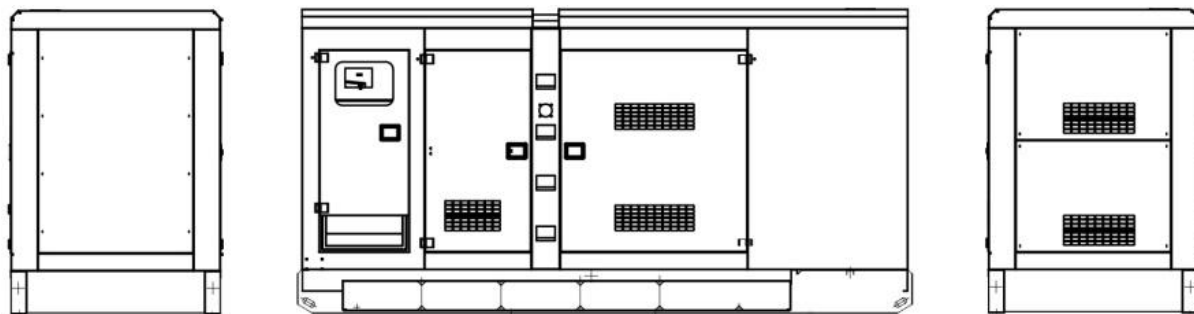
Key Features

- 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

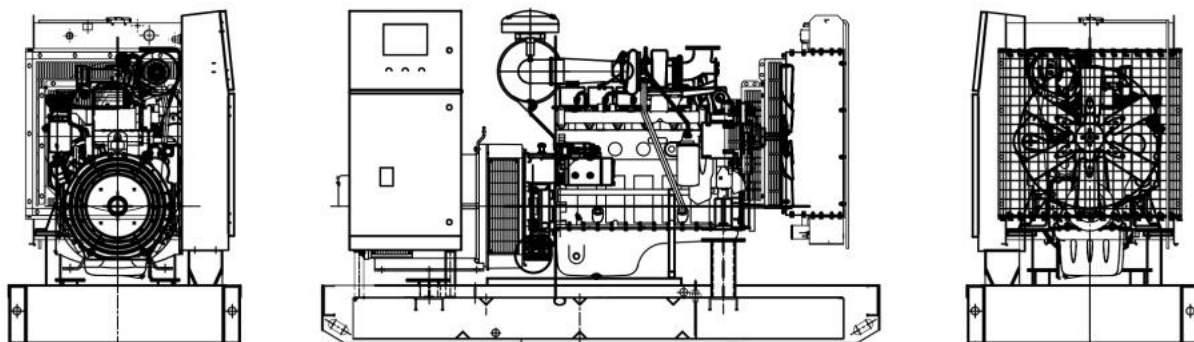
Generating Sets Standard and Optional Features

| | |
|--------------------------|--|
| Engine | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Maintenance-free and anti-explosion battery • Standard breaker • ABB breaker (optional) • ATS (optional) • Battery charger (optional) • GMS monitoring (optional) |
| Packing | <ul style="list-style-type: none"> • Engine manual • Alternator manual • Gensets operation and maintenance manual • Tool kit |
| Baseframe | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Weatherproof & sound-attenuated canopy • Sound-absorbing material • Lifting lug • Emergency stop button • Inside silencer |

Overview Dimension & Weight



| LSC250S3-6 (Silent type) | | | | | |
|--------------------------|----------------|---------------|----------------|-------------|-----------------------|
| Configuration | L= Length (mm) | W= Width (mm) | H= Height (mm) | Weight (kg) | Fuel Tank Capacity(L) |
| Silent Type | 3620 | 1232 | 2050 | 2445 | 592 |



| LSC250E3-6 (Open type) | | | | | |
|------------------------|----------------|---------------|----------------|-------------|------------------------|
| Configuration | L= Length (mm) | W= Width (mm) | H= Height (mm) | Weight (kg) | Fuel Tank Capacity (L) |
| Open Type | 2490 | 1114 | 1560 | 1685 | 255 |



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