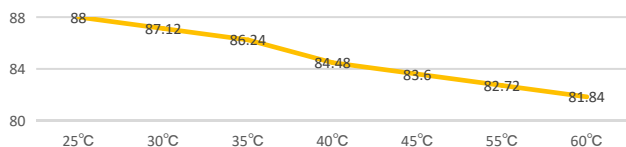


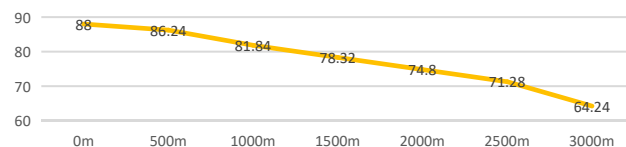


| MODEL | | | LSY88S3 |
|-----------------|-------------|-----|---------|
| Power Pf.1.0 | Standby | kVA | 88 |
| | | kW | 70 |
| | Prime | kVA | 80 |
| | | kW | 64 |
| | Frequency | Hz | 50 |
| | Voltage | V | 230/400 |
| | Rated speed | rpm | 1500 |

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

| | |
|-----------------------------|---|
| Engine Brand | LEES |
| Engine Model | Y4110ZLD |
| Cylinder No.& Configuration | 4 cylinder Diesel L type |
| Working Mode | Inter cooler Turbo |
| Bore x Stroke | 110x118mm |
| Displacement | 4.3L |
| Compression Ratio | 18 |
| Rated Power | 80kW |
| Rated Speed | 1500 |
| Lubrication System | Splash Lubrication |
| Lube Oil | Conforms above CD class or SAE10W-30,15W-40 |
| | |
| Lube Oil Capacity | 17L |
| Battery Capacity | 6-QW-60(580)*2 |
| Fuel Type | Diesel:0#(Summer),-10#(Winter),-35#(Cold) |
| | |
| Fuel Consumption 25% load | 7.48L/H |
| Fuel Consumption 50% load | 12.59L/H |
| Fuel Consumption 75% load | 16.27L/H |
| Fuel Consumption 100% load | 20.94L/H |

ALTERNATOR

| | |
|---|--|
| 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(ALTERNATOR) |
| 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 drip-proof 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

Key Features

- Using microprocessor as a core, graphics LCD with big screen and backlight, key touch for operation
- Have a RS485 port, can be used for communicate to PC
- All parameters can be set from the front panel, or be set by PC used SG72
- Security password-protected programming levels
- All parameters use digital modulation, with higher reliability and stability
- Built-in speed/frequency detecting units can accurately judge the states such as crank success and over speed
- Power supply range is wide, accommodating to different starting battery voltage environment
- Built-in watch dog can never be dead halt, ensuring smooth program execution
- Modular configuration design, inserted type connection terminals, flush type installation, compact structure, easy installation



Protection

- High engine temperature
- Low oil pressure
- Over speed
- Under speed
- Loss of speed signal
- Generator over frequency
- Generator under frequency
- Generator over voltage
- Generator under voltage
- Generator over current
- Fail to start
- Auxiliary inputs

Precision measure and display of

- Mains voltage
- Mains frequency
- Mains current
- Generator voltage
- Generator current
- Generator frequency
- Generator active power (kW)
- Generator inactive power (kW)
- Generator apparent power (kVA)
- Generator power factor
- Generator starts count
- Generator hour count
- Cumulate electric energy (kWh)
- Generator temperature
- Generator pressure
- Generator fuel level
- Start battery voltage

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 silence • 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 value • 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



| LSY88S3 (Silent type) | | | | | |
|-----------------------|----------------|---------------|----------------|-------------|-----------------------|
| Configuration | L= Length (mm) | W= Width (mm) | H= Height (mm) | Weight (kg) | Fuel Tank Capacity(L) |
| Silent Type | 2560 | 1000 | 1260 | 1280 | 140 |



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