

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.

| | MODEL | LSY70S3 | | |
|-----------------|-------------|---------|---------|--|
| Power Pf.0.8 | Standby | kVA | 70 | |
| | | kW | 56 | |
| | Prime | kVA | 63 | |
| | | kW | 50.4 | |
| | Frequency | Hz | 50 | |
| | Voltage | V | 230/400 | |
| | Rated speed | rpm | 1500 | |

Standard Features

>LEES Power provides one-source responsibility for the generating system and accessories.

>The generator set and its components are prototype-tested, factorybuilt, 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

>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-8528/1, 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.



Alees

LEES engine Model: YD4EZLD

Main features:

- · Four-cylinder, water-cooled, in-line diesel engine
- · Efficient fuel system for max power output and durability
- Large-capacity air cleaner
- · Cost effective, fuel efficient and reliable performance
- · Functional engine with compact structure
- · Excellent after-sales service and sufficient spare parts supplying
- · Easy installation and ready access for routine maintenance

Engine Specifications

| Engine Brand | ····· LEES |
|-----------------------------|-------------------------------|
| Engine Model | ····· YD4EZLD |
| Cylinder No.& Configuration | ···· 4 cylinder Diesel L type |
| Working Mode | Inter cooler Turbo |
| Bore x Stroke mm | 105x118 |
| DisplacementL | 4.087 |
| Compression Ratio | |
| Rated Power www.kW | 63 |
| Rated Speed | ···· 1500 |
| Lubrication System | Splash Lubrication |
| Lube Oil | Conforms above CD class or |
| | SAE10W-30,15W-40 |
| Lube Oil Capacity | 13 |
| Battery Capacity | ···· 12V80Ah x2 |
| Fuel Type | ···· Diesel:0#(Summer),- |
| | 10#(Winter),-35#(Cold) |
| Fuel Consumption 25% load | 5.89 |
| Fuel Consumption 50% load | 9.92 |
| Fuel Consumption 75% load | 13.39 |
| Fuel Consumption 100% load | 16.87 |
| | |



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 \triangleright 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. \geq
- Superior voltage waveform from two-thirds pitch \triangleright 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 \triangleright 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
- \geq Security password-protected programming levels
- \triangleright All parameters use digital modulation, with higher reliability and stability
- \triangleright 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

Precision measure and display of

- Mains voltage
- ۶ Mains frequency
- ≻ Mains current
- ≻ Generator voltage
- ≻ Generator current
- ≻ Generator frequency
- ۶ Generator active power (kW)
- ≻ Generator inactive power (kW)
- \triangleright Generator apparent power (kVA)

- Generator power factor
- Generator starts count
- Generator hour count
- Cumulate electric energy (kWh)
- \triangleright Generator temperature
- Generator pressure
- Generator fuel level \triangleright
- Start battery voltage \geq

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



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

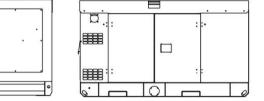
Baseframe

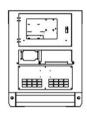
- Forklift pockets
- Pulling slots
- Earth wire protection
- Built-in anti vibration mountings
- Fuel outlet value
- Standard fuel tank
- Enlarged fuel tank (optional)
- Separated fuel tank (optional)

Canopy

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

Overview Dimension & Weight





| LSY70S3 (Silent type) | | | | | | | |
|-----------------------|----------------|---------------|----------------|-------------|---------------------------|--|--|
| Configuration | L= Length (mm) | W= Width (mm) | H= Height (mm) | Weight (kg) | Fuel Tank Capacity (L) | | |
| Silent Type | 2460 | 1000 | 1257 | - | 146 | | |

Contact your distributor / dealer for more information

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