

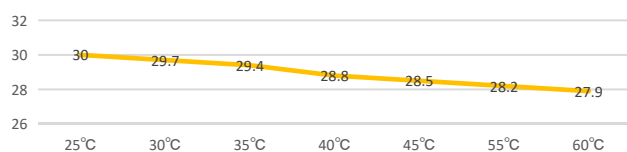
MODEL: LSY30S3

Powered by LEES

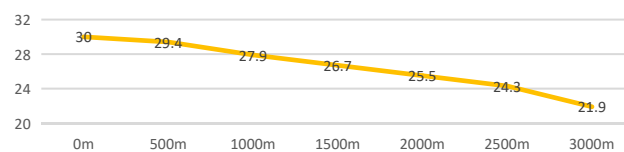


| MODEL | | LSY30S3 | |
|-----------------|-----------|---------|---------|
| Power Pf.1.0 | Standby | kVA | 30 |
| | | kW | 24 |
| | Prime | kVA | 27 |
| | | kW | 22 |
| | Frequency | Hz | 50 |
| | Voltage | V | 230/400 |
| Rated speed | rpm | 1500 | |

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 | Y495D-EP990 |
| Cylinder No.& Configuration | 4 cylinder Diesel L type |
| Working Mode | Naturally Aspirated |
| Bore x Stroke | 95x105mm |
| Displacement | 2.977L |
| Compression Ratio | 18 |
| Rated Power | 26kW |
| Rated Speed | 1500 |
| Lubrication System | Splash Lubrication |
| Lube Oil | Conforms above CD class or SAE10W-30,15W-40 |
| Lube Oil Capacity | 7.6L |
| Battery Capacity | 6-QWLZ-45(380)L |
| Fuel Type | Diesel:0#(Summer),-10#(Winter),-35#(Cold) |
| Fuel Consumption 25% load | 3.69L/H |
| Fuel Consumption 50% load | 5.27L/H |
| Fuel Consumption 75% load | 6.15L/H |
| Fuel Consumption 100% load | 6.87L/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 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

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

- 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

- 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

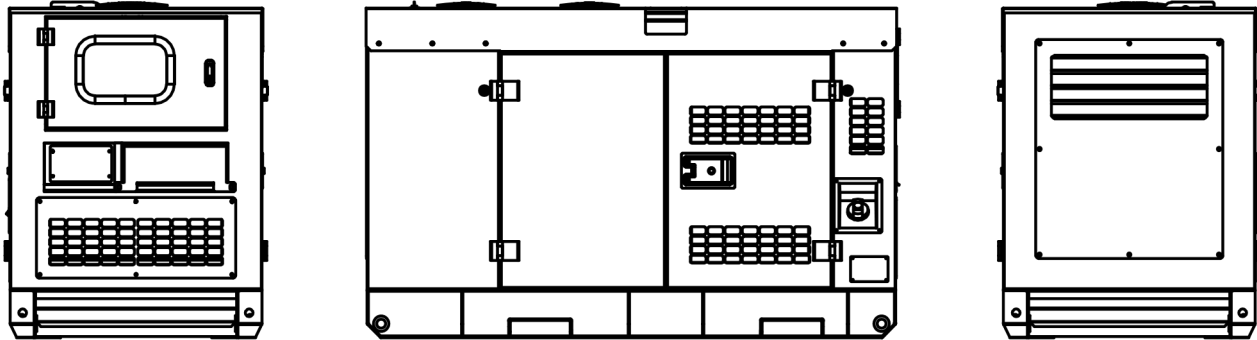
Baseframe

- 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



| LSY30S3 (Silent type) | | | | | |
|-----------------------|-----------------|----------------|-----------------|-------------|-----------------------|
| Configuration | L = Length (mm) | W = Width (mm) | H = Height (mm) | Weight (kg) | Fuel Tank Capacity(L) |
| Silent type | 1955 | 805 | 1050 | 760 | / |



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