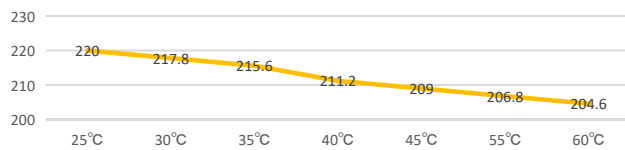


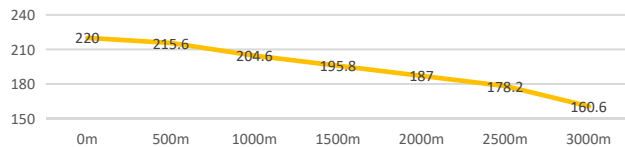


| MODEL | | LSY220S3-6 | |
|-----------------|-----------|------------|------------------------------------------------|
| Power Pf.0.8 | Standby | kVA | 220 |
| | | kW | 176 |
| | Prime | kVA | 200 |
| | | kW | 160 |
| | Frequency | Hz | 60 |
| | Voltage | V | 208/120; 220/127; 416/240; 440/254; 480/277 |
| Rated speed | rpm | 1800 | |

Temperature (Celsius) Derate Curves
Unit: kVA



Altitude (meters) Derate Curves
Unit: kVA



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.

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 60Hz 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 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.

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.

LEES engine Model: YM6H4L-D



Main features:

- Six-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 | YM6H4L-D |
| Cylinder No.& Configuration | 6 cylinder Diesel L type |
| Working Mode | Inter cooler Turbo |
| Bore x Stroke | mm 120x130 |
| Displacement | L 8.822 |
| Compression Ratio | 17.5 |
| Rated Power | kW 195 |
| Rated Speed | 1800 |
| Lubrication System | Splash Lubrication |
| Lube Oil | Conforms above CD class or SAE10W-30,15W-40 |
| Lube Oil Capacity | L 23 |
| Battery Capacity | 6-QW-80(600)*2 |
| Fuel Type | Diesel:0#(Summer),- 10#(Winter),-35#(Cold) |
| Fuel Consumption 25% load | L/H 12 |
| Fuel Consumption 50% load | L/H 23.5 |
| Fuel Consumption 75% load | L/H 34.6 |
| Fuel Consumption 100% load | L/H 46.7 |

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 | 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 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

- 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)
- 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

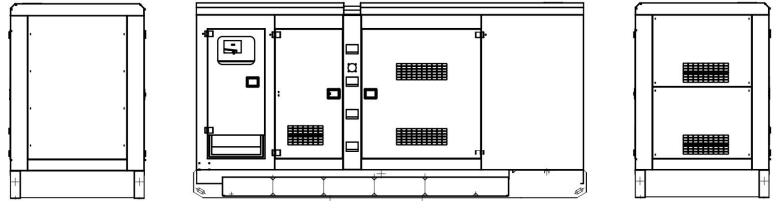
Baseframe

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

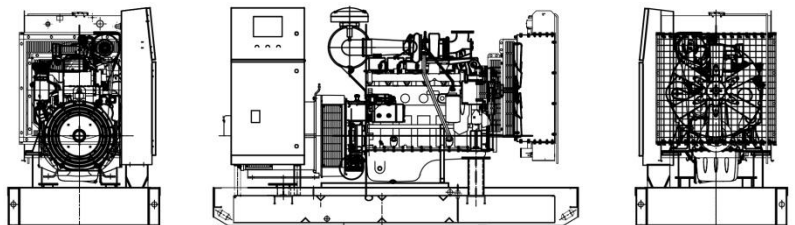
Canopy

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

Overview Dimension & Weight



| LSY220S3-6 (Silent type) | | | | | |
|--------------------------|----------------|---------------|----------------|-------------|------------------------|
| Configuration | L= Length (mm) | W= Width (mm) | H= Height (mm) | Weight (kg) | Fuel Tank Capacity (L) |
| Silent Type | 3910 | 1332 | 2100 | 3030 | 758 |



| LSY220E3-6 (Open type) | | | | | |
|------------------------|----------------|---------------|----------------|-------------|------------------------|
| Configuration | L= Length (mm) | W= Width (mm) | H= Height (mm) | Weight (kg) | Fuel Tank Capacity (L) |
| Open Type | 3050 | 1220 | 1900 | 2150 | 450 |

Contact your distributor / dealer for more information

WUXI LEES POWER COMPANY LIMITED

NO.312 Highway, Luoshe Town, Wuxi, China, 214000

Tel: 86-510-85166446

Facebook: www.facebook.com/leesgenerator

Web: www.leespower.com

Email: lees@leespower.com

