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 50Hz generator set offers an 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 broad-range 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 3514, 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 3514, 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: YM6S4LF-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**

<table>
<thead>
<tr>
<th>Engine Brand</th>
<th>LEES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Model</td>
<td>YM6S4LF-D</td>
</tr>
<tr>
<td>Cylinder No.&amp; Configuration</td>
<td>6 cylinder Diesel L type</td>
</tr>
<tr>
<td>Working Mode</td>
<td>Inter cooler Turbo</td>
</tr>
<tr>
<td>Bore x Stroke</td>
<td>126x130 mm</td>
</tr>
<tr>
<td>Displacement</td>
<td>9.726 L</td>
</tr>
<tr>
<td>Compression Ratio</td>
<td>17</td>
</tr>
<tr>
<td>Rated Power</td>
<td>255.0 kW</td>
</tr>
<tr>
<td>Rated Speed</td>
<td>1500</td>
</tr>
<tr>
<td>Lubrication System</td>
<td>Splash Lubrication</td>
</tr>
<tr>
<td>Lube Oil</td>
<td>Conforms above CD class or SAE10W-30,15W-40</td>
</tr>
<tr>
<td>Lube Oil Capacity</td>
<td>23.0 L</td>
</tr>
<tr>
<td>Battery Capacity</td>
<td>12V80Ah x2</td>
</tr>
<tr>
<td>Fuel Type</td>
<td>Diesel:0#(Summer),-10#(Winter),-35#(Cold)</td>
</tr>
<tr>
<td>Fuel Consumption 25% load</td>
<td>16.00 L/H</td>
</tr>
<tr>
<td>Fuel Consumption 50% load</td>
<td>31.00 L/H</td>
</tr>
<tr>
<td>Fuel Consumption 75% load</td>
<td>46.50 L/H</td>
</tr>
<tr>
<td>Fuel Consumption 100% load</td>
<td>60.40 L/H</td>
</tr>
</tbody>
</table>
### 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
- **Rotator 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, ± 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 ± 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 value
- 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

<table>
<thead>
<tr>
<th>Configuration</th>
<th>L (mm)</th>
<th>W (mm)</th>
<th>H (mm)</th>
<th>Weight (kg)</th>
<th>Fuel Tank Capacity (L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSY300S3 (Silent type)</td>
<td>4260</td>
<td>1460</td>
<td>2100</td>
<td>3627</td>
<td>800</td>
</tr>
<tr>
<td>LSY300E3 (Open type)</td>
<td>3100</td>
<td>1200</td>
<td>1850</td>
<td>2460</td>
<td>540</td>
</tr>
</tbody>
</table>

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

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