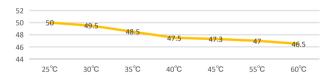




| MODEL | | | LSP50S3 | | |
|-----------------|-------------|-----|---------|--|--|
| Power Pf.0.8 | Ctandby | kVA | 50 | | |
| | Standby | kW | 40 | | |
| | Prime | kVA | 45 | | |
| | | kW | 36 | | |
| | Frequency | Hz | 50 | | |
| | Voltage | V | 230/400 | | |
| | Rated speed | rpm | 1500 | | |

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 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.



Perkins engine Model: 1103A-33TG1

Main features:

- · Compact and efficient power
 - ➤ 1100 series is the result of an intensive period of customer research that has guided the development of the range
 - ➤ The new 3.3 L cylinder block ensures bore roundness is maintained under the pressures of operation. It also ensures combustion and mechanical noise is lowered
 - > A new cylinder head has re-established Perkins mastery of air control
- Quality by design
 - Product design and Class A manufacturing improvements enhance product reliability while maintaining Perkins legendary reputation for durability
- Cost effective power
 - > Compact size and low noise
 - > Lower fuel consumption and oil use
 - > 500 hours service intervals
 - 2 year warranty







Engine Specifications

| Engine Brand | PERKINS |
|--------------------------------|----------------------------|
| Engine Model | 1103A-33TG1 |
| Cylinder No.& Configuration | 3 cylinder Diesel L type |
| Working Mode | Turbocharged |
| Bore x Stroke mm | 105*127 |
| Displacement L | 3.3 |
| Compression Ratio | 17.25:1 |
| Rated Power kW | 42.2 |
| Rated Speed | 1500 |
| Lubrication System | Splash Lubrication |
| Lube Oil | Conforms above CF class or |
| | SAE10W-30,15w-40 |
| Lube Oil Capacity L | 8.3 |
| Battery Capacity | 6-QW-60(580)*1 |
| Fuel Type | Diesel:0#(Summer),- |
| | 10#(Winter),-35#(Cold) |
| Fuel Consumption 25% loadL/H | 2.65 |
| Fuel Consumption 50% loadL/H | 4.06 |
| Fuel Consumption 75% loadL/H | 5.61 |
| Fuel Consumption 100% load L/H | 7.2 |



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 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 ± 0.25% no-load to full-load regulation.
- Brushless alternator with brushless pilot exciter for excellent load response.

Controller





Audiovisual annunciation with NFPA 110 Level 1 capability. Programmable microprocessor logic and digital display features. Safeguard circuit protection standard.

12- or 24-volt engine electrical system capability. Remote start, remote annunciation, and remote communication options. Refer to M6-46 for additional controller features and accessories

Key Features

- 4-line back-lit LCD text display
- > Five key menu navigation
- > Front panel editing with PIN protection
- ➤ LED and LCD alarm indication
- > Customisable status screens
- > Power save mode
- > Support for up to three remote display units
- > 9 configurable inputs
- > 8 configurable outputs
- Flexible sender inputs
- Configurable timers and alarms
- > 3 configurable maintenance alarms
- Multiple date and time scheduler
- Configurable event log (250)
- Control logic facilities
- > Easy access diagnostic page
- > CAN and Magnetic Pick-up / Alt. Sensing
- > Fuel usage monitor and low fuel alarms
- Charger alternator failure alarm

- Manual speed control
- > Manual fuel pump control
- > Engine exerciser
- > "protections disabled" feature
- > kW overload protection
- Power monitoring
- Load switching (load shedding and dummy load outputs)
- Automatic load transfer
- > Unbalanced load protection
- Independent Earth Fault trip
- USB connectivity
- > Backed up real time clock
- Configurable display languages
- ➤ User selectable RS232 and RS485 communications
- > SMS Messaging (additional external modem required)
- Additional display screens to help with modem diagnostics
- Integral PLC editor



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

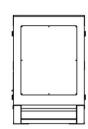
Baseframe

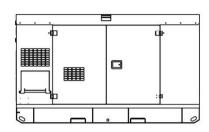
- Forklift pockets
- Pulling slots
- Earth wire protection
- > Built-in anti vibration mountings
- Fuel outlet value
- Standard fuel tank
- Enlarged fuel tank (optional)
- Separated fuel tank (optional)

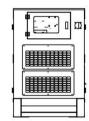
Canopy

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

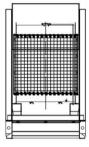
Overview Dimension & Weight

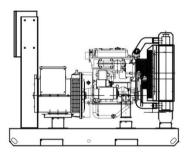


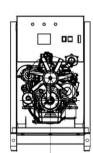




| LSP50S3 (Silent type) | | | | | | | |
|-----------------------|----------------|---------------|----------------|-------------|---------------------------|--|--|
| Configuration | L= Length (mm) | W= Width (mm) | H= Height (mm) | Weight (kg) | Fuel Tank Capacity (L) | | |
| Silent Type | 2152 | 960 | 1450 | 1186 | 180 | | |







| LSP50E3 (Open type) | | | | | | | |
|---------------------|----------------|---------------|----------------|-------------|---------------------------|--|--|
| Configuration | L= Length (mm) | W= Width (mm) | H= Height (mm) | Weight (kg) | Fuel Tank Capacity (L) | | |
| Open Type | 1600 | 790 | 1280 | 895 | 90 | | |

Contact your distributor / dealer for more information

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