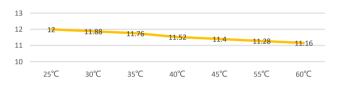




	MODEL	LSY12S3		
Power Pf.0.8	Standby	kVA	12.1	
		kW	9.7	
	Prime	kVA	11	
		kW	8.8	
	Frequency	Hz	50	
	Voltage	V	230/400	
	Rated speed	rpm	1500	

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, 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.



LEES engine Model: YD385D

LEES

Main features:

- · Three-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	· YD385D
Cylinder No.& Configuration	3 cylinder Diesel L type
Working Mode	Naturally Aspirated
Bore x Stroke mm	85x90
Displacement L	1.532
Compression Ratio	· 18
Rated Power kW	11
Rated Speed	1500
Lubrication System	· Splash Lubrication
Lube Oil ·····	· Conforms above CD class or
	SAE10W-30,15W-40
Lube Oil Capacity L	4.5
Lube Oil Capacity L Battery Capacity	
	12V45Ah x1
Battery Capacity	12V45Ah x1
Battery Capacity	· 12V45Ah x1 · Diesel:0#(Summer),-
Battery Capacity	 12V45Ah x1 Diesel:0#(Summer),- 10#(Winter),-35#(Cold)
Fuel Consumption 25% load L/H	 12V45Ah x1 Diesel:0#(Summer),- 10#(Winter),-35#(Cold) 1.61
Fuel Consumption 25% load L/H Fuel Consumption 50% load L/H	 12V45Ah x1 Diesel:0#(Summer),- 10#(Winter),-35#(Cold) 1.61 2.54



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

3-Phase Sensing, $\pm 0.25\%$

125% 60 Hz, 150% 50 Hz

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



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

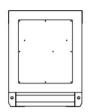
Baseframe

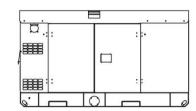
- Forklift pockets
- Pulling slots
- Earth wire protection
- > Built-in anti vibration mountings
- Fuel outlet value
- Standard fuel tank
- Enlarged fuel tank (optional)
- Separated fuel tank (optional)

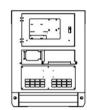
Canopy

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

Overview Dimension & Weight







LSY12S3 (Silent type)								
Conf iguration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)	Fuel Tank Capacity (L)			
Silent Type	1680	800	1050	650	50			

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: <u>lees@leespower.com</u>

