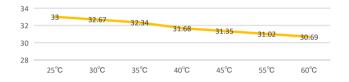


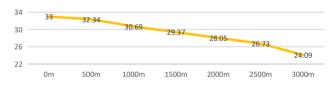


MODEL			LSY33S3-6		
Power Pf.0.8	Standby	kVA	33		
		kW	26.4		
	Prime	kVA	30		
		kW	24		
	Frequency	Hz 60			
	Voltage	٧	208/120; 220/127; 416/240; 440/254; 480/277		
	Rated speed	rpm	1800		

# 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  $25^{\circ}$ C ( $77^{\circ}$ 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: Y495D

# **LEES**

# Main features:

- Four-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	··· Y495D
Cylinder No.& Configuration	··· 4 cylinder Diesel L type
Working Mode	··· Naturally Aspirated
Bore x Stroke mm	95X105
Displacement L	2.977
Compression Ratio	···· 18
Rated Power kW	29
Rated Speed	··· 1800
Lubrication System ····	Splash Lubrication
Lube Oil	··· Conforms above CD class or
Lube Oil	Conforms above CD class or SAE10W-30,15W-40
Lube Oil Capacity L	
	SAE10W-30,15W-40
Lube Oil Capacity L	SAE10W-30,15W-40 8
Lube Oil Capacity L  Battery Capacity	SAE10W-30,15W-40 8 ···· 6-QW-45(380)*1
Lube Oil Capacity L  Battery Capacity	SAE10W-30,15W-40 8 6-QW-45(380)*1 Diesel:0#(Summer),-
Lube Oil Capacity L  Battery Capacity Fuel Type	SAE10W-30,15W-40 8 ···· 6-QW-45(380)*1 ···· Diesel:0#(Summer),- 10#(Winter),-35#(Cold)
Lube Oil Capacity L  Battery Capacity Fuel Type  Fuel Consumption 25% load L/H	SAE10W-30,15W-40 8 
Lube Oil Capacity L  Battery Capacity  Fuel Type  Fuel Consumption 25% load L/H  Fuel Consumption 50% load L/H	SAE10W-30,15W-40 8 



## **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



#### **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

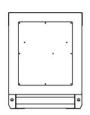
# **Baseframe**

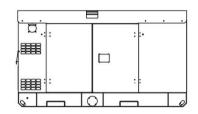
- Forklift pockets
- Pulling slots
- Earth wire protection
- > Built-in anti vibration mountings
- Fuel outlet value
- Standard fuel tank
- Enlarged fuel tank (optional)
- Separated fuel tank (optional)

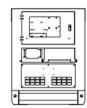
# Canopy

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

# **Overview Dimension & Weight**







LSY33S3-6 (Silent type)							
Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)	Fuel Tank Capacity (L)		
Silent Type	1956	806	1046	770	85		

Contact your distributor / dealer for more information

#### **WUXI LEES POWER COMPANY LIMITED**

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