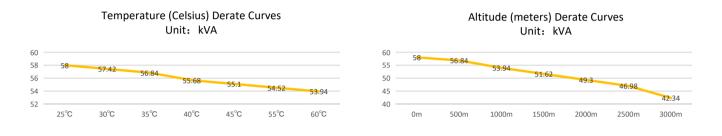




MODEL			LSY58S3-6		
Power Pf.1.0	Standby	kVA	57.3		
		kW	45.8		
	Prime	kVA	52.1		
		kW	41.7		
	Frequency	Hz	60		
	Voltage	V	208/120; 220/127; 416/240; 440/254; 480/277		
	Rated speed	rpm	1800		



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.

LEES generator sets meet the standards of

ISO9001, CE, BS5000, ISO 8528, ISO 3046, IEC 60034, NEMA MG-1.22.



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 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.



Engine Specifications						
Engine Brand	LEES					
Engine Model	Y4102ZLD					
Cylinder No.& Configuration	4 cylinder Diesel L type					
Working Mode	Inter cooler Turbo					
Bore x Stroke	102x118mm					
Displacement	3.875L					
Compression Ratio	18					
Rated Power	53kW					
Rated Speed	1800					
Lubrication System	Splash Lubrication					
Lube Oil	Conforms above CD class or SAE10W-30,15W-40					
Lube Oil Capacity	13L					
Battery Capacity	6-QW-60(580)*2					
Fuel Type	Diesel:0#(Summer),-10#(Winter),-35#(Cold)					
Fuel Consumption 25% load	5.08L/H					
Fuel Consumption 50% load	8.11L/H					
Fuel Consumption 75% load	11.31L/H					
Fuel Consumption 100% load	14.55L/H					



ALTERNATOR					
Туре	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	Prime 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(ALTERNATOR)				
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 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

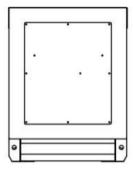


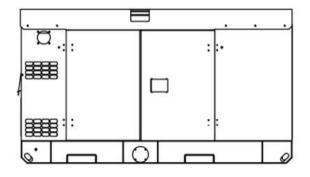
Generating Sets Standard and Optional Features

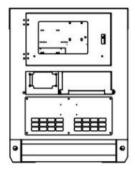
Engine	 4-stroke, water-cooled diesel engine Standard air filter Standard fuel filter Standard oil filter Oil temperature sensor Low coolant level sensor Radiator with blowing fan Industrial silence Fuel water separator Water jacket heater (optional) 	
Alternator	 Class H insulation IP23 Protection Automatic Voltage Regulator (AVR) PMG excitation (optional) Single bearing alternator Class F or class B temperature rise (optional) Digital Voltage Regulator (optional) Double bearing (optional) Anti-Condensation 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







LSY58S3-6 (Silent type)							
Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)	Fuel Tank Capacity(L)		
Silent Type	2460	1006	1257	1125	140		



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