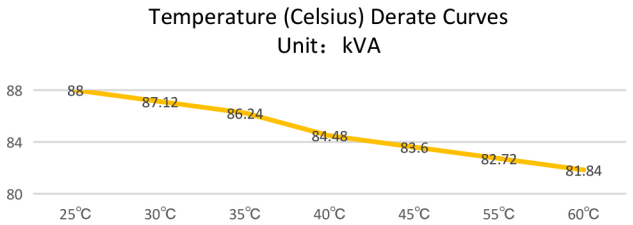
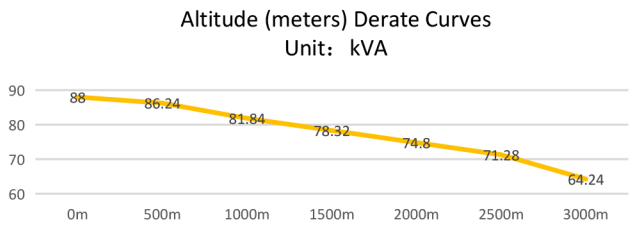
MODEL: LSY88S3

Powered by LEES

MODEL			LSY88S3
Power Pf.1.0	Standby	kVA	88
		kW	70
	Prime	kVA	80
		kW	64
	Frequency	Hz	50
	Voltage	V	230/400
	Rated speed	rpm	1500





Standard reference Conditions:

Standard reference condition 25℃ (77℉) 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 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.

Engine Specifications

Engine Brand	LEES
Engine Model	Y4110ZLD
Cylinder No.& Configuration	4 cylinder Diesel L type
Working Mode	Inter cooler Turbo
Bore x Stroke	110x118mm
Displacement	4.3L
Compression Ratio	18
Rated Power	80kW
Rated Speed	1500
Lubrication System	Splash Lubrication
Lube Oil	Conforms above CD class or SAE10W-30,15W-40
Lube Oil Capacity	17L
Battery Capacity	6-QW-60(580)*2
Fuel Type	Diesel:0#(Summer),-10#(Winter),-35#(Cold)
Fuel Consumption 25% load	7.48L/H
Fuel Consumption 50% load	12.59L/H
Fuel Consumption 75% load	16.27L/H
Fuel Consumption 100% load	20.94L/H

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	Prime 130℃, 150℃ 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, ±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.

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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

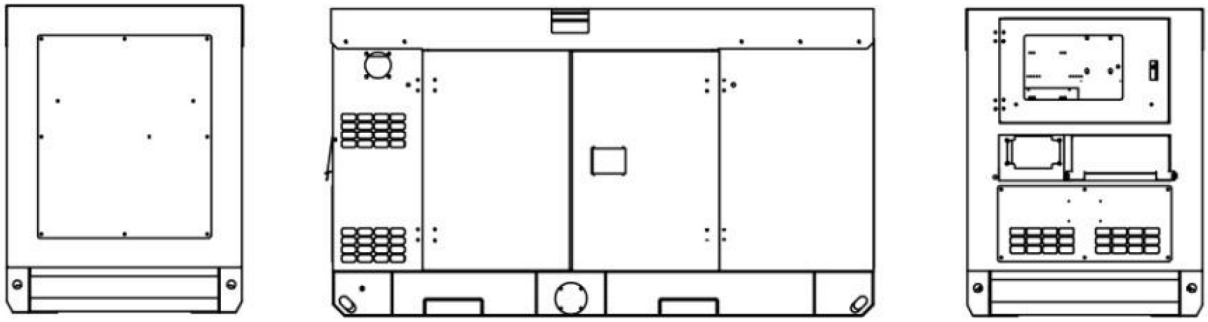
Precision measure and display of

- 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



LSY88S3 (Silent type)					
Configuration	L= Length (mm)	W= Width (mm)	H= Height (mm)	Weight (kg)	Fuel Tank Capacity(L)
Silent Type	2560	1000	1260	1280	140