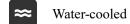
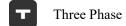




# **LSY110S3**







□
---

Model		LSY110S3	
Standby Power	KVA	110	
	KW	88	
Prime Power	KVA	100	
	KW	80	
Frequency	Hz	50	
Rated Voltage	V	230/400	
Rated speed	rpm	1500	

YTO Group Corporation is a leading construction machinery manufacturer in China. Founded in 1955, YTO brand has been awarded China Top Brand and Recommended Export Brand, which are popular with customers all over the world.YTO engine meet CE, EPA standard.

LEES YTO range of diesel generator set features compact structure, perfect portability, reliable power, and low emission.



## **Engine specification Model:** LR4N5LP

#### 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
- Excellent fuel consumption with 198 g/kw.h

General date				
Cylinder No.	4			
Cylinder arrangement	In-line			
Cycle	4 stroke			
Induction system	Turbocharged			
Combustion system	Direct injection			
Cooling system	Water-cooled			
Bore X Stroke (mm)	108×125			
Displacement (L)	4.58			
Compression ratio	17:1			
Direction of rotation	Anti-clockwise, viewed on flywheel			
Lubrication capacity (L)	14			
Coolant capacity (L)	6			
Dimension (LXWXH) (mm)	1033X702X865			
Dry weight (kg)	420±20 kg			

	Fuel consumption		
Engine speed	1500 rev/min		
	g/hr	l/hr	
Standyby	221	13.2	
Prime power	225	14.6	
75% of prime power	229	14.8	
50% of prime power	235	15.2	

Engine ratings							
Engine speed	Type of operation	Generator output (net)		Gross engin	e power	ver Net engine power	
rmp		kVA	kW	kWm	bhp	kWm	bhp
1500	Prime power	75	60	62	84	60	81
1500	Standby power	77	62	66	90	65	88

The above ratings represent the engine performance capabilities to conditions specified in ISO 8528/1, ISO 3046/1:1986, BS 5514/1 Prime power: power available at variable load with a load factor not exceeding 80% of the prime power rating. Overload of 10% permitted for 1 hour in every 12 hours' operation

Standby power: power available in the event of a main power network failure up to a maximum of 500 hours per year of which up to 300 hours may be run continuously. No overload is permitted



## **LEES alternator** → **Model: LA274C**

### Main features:

- 12 wire reconnectable stator/terminal arrangement
- Easy access for installation and maintenance
- 2/3 pitch winding as standard, to avoid excessive neutral currents
- Class H insulation with severe environmental protection as standard
- Built to conform with all leading industrial and marine standards
- 460 AVR as standard with 1.5% regulation and 2 phase sensing
- IP23 as standard

LEES LA274C: 3 phase, 0.8 power factor, 50Hz, 1500rpm					
Class - Temp rise	Cont. H – 125/40 ℃				
Voltage (V)	380	400	415	440	
Power (kVA)	85	85	85	75	
Power (kW)	68	68	68	60	
Efficiency (%)	89.8	90.2	90.4	90.8	
kW input	75.7	75.4	75.2	69.6	

Alternator specifications				
Control system	Self excited			
A.V.R.	SX460			
Voltage regulation	±1.0%			
Insulation system	H级			
Protection	IP23			
Stator winding	Double layer lap			
Winding pitch	2/3			
Winding leads	12			
Stator wdg. resistance	0.065 Ohms per phase at 22℃ series star connected			
Rotor wdg. resistance	0.83 Ohms at 22℃			
Excited stator resistance	ce 20 Ohms at 22℃			
Excited rotor resistance	0.078 Ohms per phase at 22℃			
Waveform distortion	No load <1.5% non-distorting balanced linear load <5.0%			
Maximum overspeed	2250 Rev/Min			
Bearing drive end	BALL.6312-2RS.(ISO)			
Bearing non-drive end	BALL.6306-2RS.(ISO)			
Packing crate size	105X57X96 (cm)			
Telephone interference	THF<50			
Cooling air	0.216m3/sec 458 cfm			



### **Control module** → **Model: HGM420**U

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

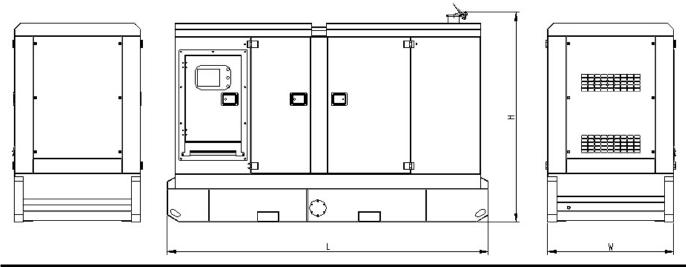
### Precision measure and display of:

- 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 under frequency
- Generator over voltage
- Generator under voltage
- Generator over current
- Fail to start
- Auxiliary inputs
- Generator power factor
- Generator starts count
- Generator hour count
- Cumulate electric energy (kWh)
- Generator temperature
- Generator pressure
- Generator fuel level
- Start battery voltage



# Overview dimension & Sound levels



	LSY110S3				
Configuration	L= Length (mm)	W= Width (mm)	H= Higth (mm)		
Enclosed set	2960	1100	1650		



# **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
- 24V electrical system
- Radiator with blowing fan
- Industrial silence
- Fuel water separator (optional)
- Water jacket heater (optional)

#### Alternator:

- Class H insulation
- IP23 Protection
- Automatic Voltage Regulator (AVR)
- Single bearing alternator
- PMG excitation (optional)

### Electrical system:

- 6110 control module
- Maintenance-free and anti-explosion battery
- Standard breaker
- 6120 control module (optional)
- ATS (optional)
- Battery charger (optional)
- GMS monitoring (optioanl)

#### 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 8 hours fuel tank
- Separated fuel tank (optional)

### Canopy:

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

# Contact your distributor / dealer for more information

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

NO.312 Highway, Luoshe Town, Wuxi, China, 214000

Tel: 86-510-85166446
Fax: 86-510-85168446
Web:www.leespower.com
Email: lees@leespower.com

