



## LSD22S



Diesel generator set



50HZ



Water-cooled



Single Phase



Silent type

Model	LSD22S	
Standby Power	KVA	22
	KW	22
Prime Power	KVA	20
	KW	20
Frequency	Hz	50
Rated Voltage	V	230
Rated current	A	87
Rated speed	rpm	1500
Fuel tank capacity	L	70
Continuous running time	hr	10

Changchai Co., Ltd. is not only a nearly century-old national industrial enterprise, but also one of the earliest internal-combustion engine manufacturers in China. It is the first listed company in the national agricultural machinery industry. Now , Changchai has both A and B shares. Its annual output can reach 1.2 million diesel engines. So far, it has manufactured more than 2,700 million diesel engines that ranked the NO.1 in the domestic market, and its products have been exported to 78 countries and areas.

Lees Changchai range of diesel generator set features compact structure, perfect portability, reliable power, and best price-performance ratio.

**Engine specification** → **Model: LD4L68**

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
- Excellent fuel consumption with 300 g/kw.h
- Easy installation and ready access for routine maintenance

**LD4L68**

<b>LD4L68</b>	
<b>Engine type</b>	Four cylinder, in-line, water-cooled, direct injection
<b>Bore X Stroke (mm)</b>	95 X 100
<b>Displacement (L)</b>	2.834
<b>Rated power (KW)</b>	24
<b>Cooling water (L)</b>	5.8
<b>Lube oil (L)</b>	7.5
<b>Lubrication system</b>	Pressure splashed
<b>Lube oil type</b>	SAE10W-30,15W-40 (above CD grade)
<b>Starting system</b>	12V electric start
<b>Battery</b>	12V45Ah x1
<b>Fuel tpye</b>	0# (summer), -10# (winter), -35# (chillness) diesel
<b>Fuel consumption (g/KW.h)</b>	<300

**Alternator specification** → **Model: LA184H**

## Main features:

- Advanced automatic voltage regulator (AVR) control for trouble-free operation under the most demanding conditions
- 2/3 pitch winding as standard, to avoid excessive neutral currents
- Single or two bearing construction with dynamically balanced rotor and sealed-for-life bearings
- Easy access for installation and maintenance
- IP23 as standard
- Self-excited control system
- Resist of corruption of oil and acid

**LA184H**

<b>LA184H</b>	
Pole	4
Loop mode	Single phase two line
Excitation mode	Brushless self-excited constant voltage (AVR)
Power factor (cosΦ)	1
Insulation grade	H

**Control module → Model: 6110**

- 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



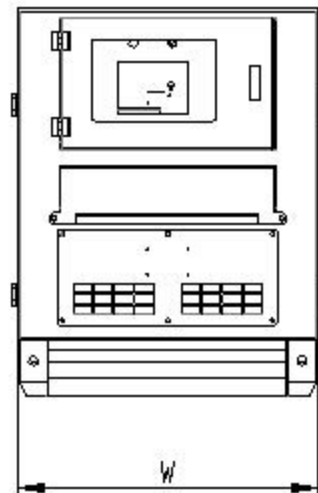
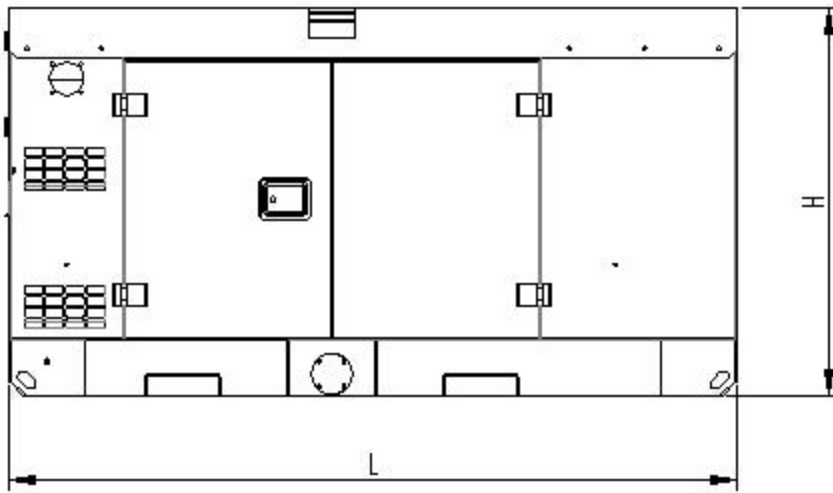
**Protection:**

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>● High engine temperature</li> <li>● Low oil pressure</li> <li>● Over speed</li> <li>● Under speed</li> <li>● Loss of speed signal</li> <li>● Generator over frequency</li> </ul> | <ul style="list-style-type: none"> <li>● Generator under frequency</li> <li>● Generator over voltage</li> <li>● Generator under voltage</li> <li>● Generator over current</li> <li>● Fail to start</li> <li>● Auxiliary inputs</li> </ul> |
|--|---|

**Precision measure and display of:**

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>● Mains voltage</li> <li>● Mains frequency</li> <li>● Mains current</li> <li>● Generator voltage</li> <li>● Generator current</li> <li>● Generator frequency</li> <li>● Generator active power (kW)</li> <li>● Generator inactive power (kW)</li> <li>● Generator apparent power (kVA)</li> </ul> | <ul style="list-style-type: none"> <li>● Generator power factor</li> <li>● Generator starts count</li> <li>● Generator hour count</li> <li>● Cumulate electric energy (kWh)</li> <li>● Generator temperature</li> <li>● Generator pressure</li> <li>● Generator fuel level</li> <li>● Start battery voltage</li> </ul> |
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**Overview dimension & Sound levels**



**LSD22S**

Configuration	L= Length (mm)	W= Width (mm)	H= High (mm)	Noise (dBA/7m)	Net weight (kg)	ATS
Enclosed set	1950	800	1050	68	900	100A

## 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 (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 valve
- Standard 8 hours fuel tank
- **Separated fuel tank (optional)**

### Canopy:

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

## Contact your distributor / dealer for more information

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