



## LSY12S



Diesel generator set



50HZ



Water-cooled



Single Phase



Silent type

Model		LSY12S
Standby Power	KVA	12.3
	KW	12.3
Prime Power	KVA	11.2
	KW	11.2
Frequency	Hz	50
Rated Voltage	V	230
Rated current	A	48.7
Rated speed	rpm	1500
Fuel tank capacity	L	50
Continuous running time	hr	10

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: YD480D

### 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

YD480D	
Engine type	Four cylinder, in-line, water-cooled, direct injection
Bore X Stroke (mm)	80X 90
Displacement (L)	1.809
Rated power (KW)	14
Cooling water (L)	5.8
Lube oil (L)	6.7
Lubrication system	Pressure splashed
Lube oil type	SAE10W-30,15W-40 (above CD grade)
Starting system	12V electric start
Battery	12V45Ah x1
Fuel type	0# (summer), -10# (winter), -35# (chillness) diesel
Fuel consumption (g/KW.h)	<260

### Alternator specification → Model: LA184E

#### 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

LA184E	
Pole	4
Loop mode	Single phase two line
Excitation mode	Brushless self-excited constant voltage (AVR)
Power factor ( $\cos\Phi$ )	1
Insulation grade	H

### Control module → Model: HGM420U

- 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



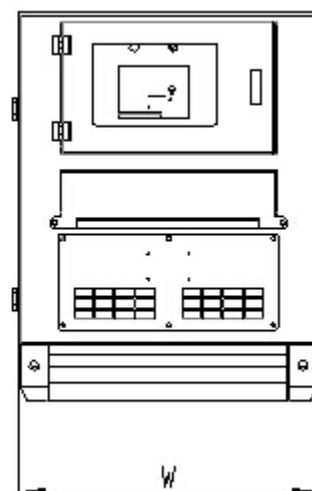
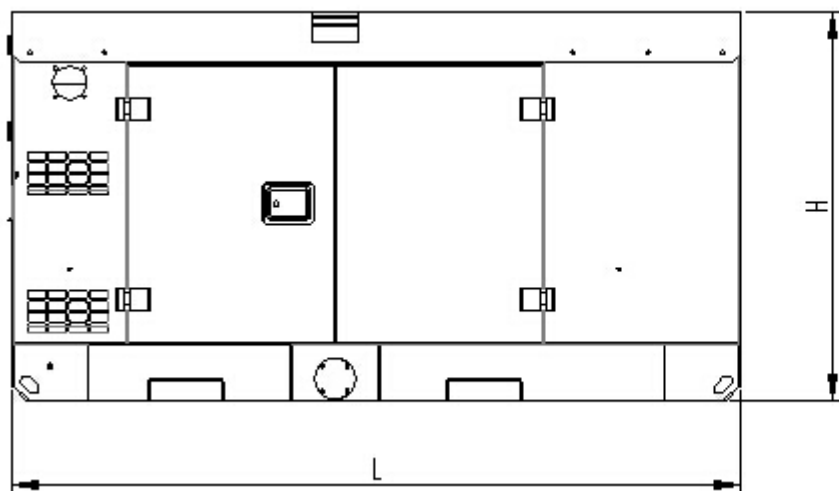
### Protection:

- |                            |                             |
|----------------------------|-----------------------------|
| ● High engine temperature  | ● Generator under frequency |
| ● Low oil pressure         | ● Generator over voltage    |
| ● Over speed               | ● Generator under voltage   |
| ● Under speed              | ● Generator over current    |
| ● Loss of speed signal     | ● Fail to start             |
| ● Generator over frequency | ● Auxiliary inputs          |

### Precision measure and display of:

- |                                  |                                  |
|----------------------------------|----------------------------------|
| ● Mains voltage                  | ● Generator power factor         |
| ● Mains frequency                | ● Generator starts count         |
| ● Mains current                  | ● Generator hour count           |
| ● Generator voltage              | ● Cumulate electric energy (kWh) |
| ● Generator current              | ● Generator temperature          |
| ● Generator frequency            | ● Generator pressure             |
| ● Generator active power (kW)    | ● Generator fuel level           |
| ● Generator inactive power (kW)  | ● Start battery voltage          |
| ● Generator apparent power (kVA) |                                  |

### Overview dimension & Sound levels



LSY12S			
Configuration	L= Length (mm)	W= Width (mm)	H= High (mm)
Enclosed set	1686	806	1046

## 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 value
- 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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