

# POWER YOUR FUTURE

## FAWDE Generator LG12X

# 4DW81-23D

Prime Power: 12KW/15KVA

Standby Power: 13KW/17KVA



## GENERATING POWER SOLUTIONS

### Increased availability for new operations

Reliable, robust and versatile generator.  
Ready to deliver power for a next job.

### Increased uptime during operations

Once installed on the end-user-site, the generator will be ready to run: "peace of mind" operation.

### Reduced transport and installation costs

The compact and robust design with integrated transport features enables faster and safer transport and installation.

### Reduced service & maintenance costs

Longer service intervals.  
Quicker and more efficient service jobs.

### Premium resale value

Designed and built to last.



### SAFETY

- Operate safely in accordance with proper operation manual.
- To prevent trouble and accidents, perform daily and preventive maintenance checks without fail.

## FAWDE Series

15KVA--375KVA



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## Technical Data

LG12X

| Model                      |         | LG12X   |
|----------------------------|---------|---------|
| Rated prime power          | kva     | 15      |
| Rated standard power       | kva     | 17      |
| Rated voltage line to line | V       | 400/230 |
| Rated current              | A       | 22      |
| Maximun sound level        | dB(@7m) | ≤69     |

### Engine-FAWDE

|                           |               |        |
|---------------------------|---------------|--------|
| Model                     | 4DW81-23D     |        |
| Air intake system         | Natural       |        |
| Fuel injection system     | Direct Inject |        |
| No. cylinders             | 4             |        |
| Displacement              | Liquid        | 2.27   |
| Bore*Stroke               | mm            | 85*100 |
| Compression ratio         | 17            |        |
| Rated speed               | r/min         | 1500   |
| Rated net power(with fan) | Kw            | 17     |
| Governor type             | Mechanical    |        |
| Start Motor               | V             | 12     |

### Exhaust System

|                   |        |     |
|-------------------|--------|-----|
| Exhaust gas flow  | m³/min | 4.2 |
| Exhaust gas temp  | °C     | 550 |
| Max back pressure | kPa    | 6.7 |

### Air Intake System

|                        |        |     |
|------------------------|--------|-----|
| Max intake restriction | kPa    | 3.7 |
| Consumption            | m³/min | 1.4 |
| Fan consumption        | kW     | 1.2 |

### Fuel System

|                        |     |     |
|------------------------|-----|-----|
| 100% load(Prime power) | L/h | 4.2 |
| 75% load(Prime power)  | L/h | 3.2 |
| 50% load(Prime power)  | L/h | 2.1 |
| Fuel tank capacity     | L   | 45  |

### Lubrication System

|                           |     |         |
|---------------------------|-----|---------|
| Total system oil capacity | L   | 7.8     |
| Oil consumption           | L/h | 0.05    |
| Min oil pressure          | kPa | 262-359 |
| (continuous operation)    |     |         |

### Cooling System

|                          |    |       |
|--------------------------|----|-------|
| Total coolant capacity   | L  | 6     |
| Thermostat               | °C | 82-95 |
| Max top tank temperature | °C | 112   |

### Alternator

|                    |                            |         |
|--------------------|----------------------------|---------|
| Model              | LONGKAI                    | LK164D  |
|                    | STAMFORD                   | PI044G  |
| Phase              | 3                          |         |
| Voltage            | V                          | 400/230 |
| Wiring Type        | 3 Phase 4 wire, Y type     |         |
| Bearing            | 1                          |         |
| Power factor       | 0.8                        |         |
| Frequency          | Hz                         | 50      |
| Prime power        | KVA                        | 15      |
| Exciter Type       | Brushless, self-excitation |         |
| Voltage regulation | %                          | ±0.5    |
| Protection Grade   | IP 23                      |         |
| Insulation grade   | H/H                        |         |
| Altitude           | m                          | ≤1000   |

### Controller-DEEPSEA

|       |         |
|-------|---------|
| Model | DSE6120 |
|-------|---------|

Protective functions:

- Low oil pressure
- High water temperature
- High/low voltage
- High Engine Temperature and Overspeed.
- Voltage regulator frequency regulator
- Emergency stop
- Start failure



### Control Module Options



- Auto generator control module
- Control module with "Three Remote Control" functions
- ATS auto load transfer screen
- Synchronising control modules
- Power output cabinet

## Standard Features

- Engine(Fawde)
- Radiator 50°C max,fans are driven by bel
- 24V charge alternator
- Alternator: single bearing alternator IP23, insulation class H/H
- Standard auto control system
- One set of air filter, fuel filter, oil filter
- Main line circuit breaker/MCCB
- Base fuel tank
- Two 12V batteries, rac and cable
- Exhaust system(Ripple flex exhaust pipe, exhaust siphon, flange, muffler
- User manual

## Options

- Battery charge
- Engine heater
- Alternator heater
- PMG
- Water oil separator
- Daily fuel tank
- Remote control panel
- Automatic transfer switch/ATS
- Switch box

Standard: ●

Options:○

## Warranty\*

### Fawde Engine

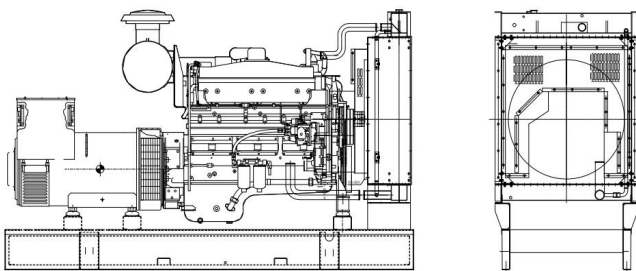
12 months from date of purchase and 1000 hours.

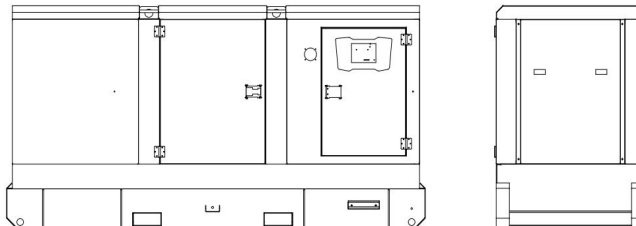
### Generator

12 months from date of purchase or 1000 hours (whichever occurs first).



## Unit Dimensions(Basic unit)

|                                                                                    |    |              |
|------------------------------------------------------------------------------------|----|--------------|
|  |    |              |
| <b>Open Type</b>                                                                   |    |              |
| L*W*H                                                                              | mm | 1350*720*900 |
| Weight                                                                             | kg | 550          |

|  |    |               |
|------------------------------------------------------------------------------------|----|---------------|
| Silent Type                                                                        |    |               |
| L*W*H                                                                              | mm | 2020*900*1150 |
| Weight                                                                             | kg | 650           |

### Trailer Option

|                    |    |               |
|--------------------|----|---------------|
| L*W*H              | mm | 2300*1500*850 |
| Max loading weight | kg | 500           |

More information, pls refer to our web-site: [www.longkaipower.com](http://www.longkaipower.com)

Manufacturer reserves the right to make changes in model, technical specification, color, equipment and accessories without notice.