

## Diesel Generating Set LGYD-70

**50Hz**
**Prime power**
**50kW/62.5kVA**
**Standby power**
**55kW/68.75kVA**

### General Features

- **Engine** 4DX23-78D YANDONG made in China
- **Alternator** WHI224E Longen Made in China
- **Controller** HGM6110U Smartgen Made in China



- Electronic speed control
- 24V starting batteries, maintenance-free type, connecting cables
- Equipped with CHINT MCCB; ABB in Option
- Equipped with industrial silencer and flexible exhaust hose
- Radiator 40°C max, fans are driven by belt with safety guard

- 24V charge dynamo
- Equipped with 8-hours operation base tank
- Design comply to ISO8528/GB2820
- Absorber (anti instant braking)
- User manual, Packing list

### General Ratings

Voltage	Power				Frequency (Hz)	Phase	P.F (COSφ)	Prime Current (A)
	Prime		Standby					
	kw	kva	kw	kva				
240/415V	50.0	62.5	55.0	68.8	50	3	0.8	87.0
230/400V	50.0	62.5	55.0	68.8	50	3	0.8	90.2
220/380V	50.0	62.5	55.0	68.8	50	3	0.8	95.0

#### Prime power

This rating is for the supply of continuous electrical power at variable load. A 10% overload capability is available for a period of 1 hour within each 12-hour period of operation.

#### Standby power

This rating is for the supply of continuous electrical power at variable load in the event of utility power failure. No overload is permitted.

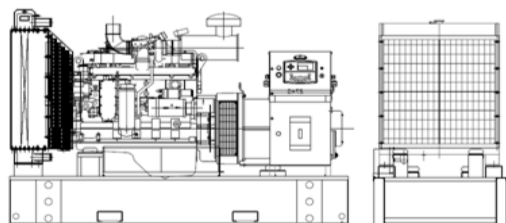
#### Rated voltage

Available with customers requirements.

### Dimension And Weight

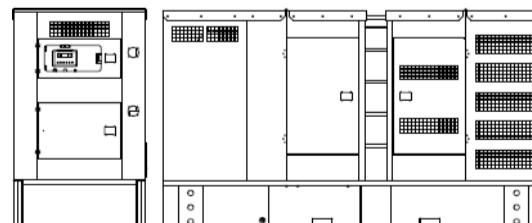
#### Open frame

Size(LxWxH):1800x950x1400(mm)  
N.W.:1100 (kgs)



#### Silent with Canopy

Size(LxWxH):2280x950x1400(mm)  
N.W.:1900 (kgs)



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#### Engine Specifications

1	Engine model	4DX23-78D
2	Engine manufacturer	FAWDE
3	Number of cylinders	4
4	Cylinder arrangement	Vertical in line
5	Cycle	4 stroke
6	Aspiration	Turbo
7	BorexStroke(mmxmm)	102x 118
8	Displacement (Liter)	3.857
9	Compression Ratio	17:1
10	Prime power/speed (kW/RPM)	57/1500RPM
11	Standby power/speed (kW/RPM)	62.7/1500RPM
12	Speed governor	electronic
13	Cooling system	Water-cooled
14	Coolant capacity (engine only) (L)	18
15	Steady speed droop (%)	≤5%
16	Total lubrication system capacity (L)	13
17	Oil consumption (% of fuel)	<0.15%
18	Fuel consumption at 100% load (L/H)	15.5
19	Fuel consumption at 75% load (L/H)	12.4
20	Fuel consumption at 50% load (L/H)	9.3
21	Starter motor	24V
22	Dynamo	24V

#### Alternator Specifications

Compliance with GB755,BS5000,VDE0530,NEMAMG1-22,IED34-1,CSA22.2 and AS1359

1	Alternator model	WHI224E
2	Alternator manufacturer	LONGEN
3	Exciter type	Single bearing, Brushless, Self-excited
4	Rated output prime power	63KVA
5	Rated speed	1500 RPM
6	Rated frequency	50 Hz
7	Phase	3
8	Rated voltage	400V
9	Power factor	0.8
10	Voltage adjust range	≥5%
11	Voltage regulation NL-FL	±1%
12	Insulation grade	H
13	Protection grade	IP22

#### Alternator option

Mecc Alte, Stamford, Longen


#### Main Electrical Performance Data

Voltage				Frequency			
Stable Regulation rate	Fluctuation	Recover time	Instantaneous Regulating rate	Stable regulation rate	Instantaneous regulating rate	Recover time	Fluctuation
+/-2.5%	0.5%	1.5s	+20%/-15%		+/-10%	5S	0.5%

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### Control System

Deepsea (UK)	Model	HGM6110U
Protection	Parameter	PHOTO
<ul style="list-style-type: none"> <li>• Low oil pressure</li> <li>• High water temp</li> <li>• Over speed</li> <li>• over crank</li> <li>• Over load</li> <li>• Over/low volt</li> <li>• Over/low frequency</li> <li>● Battery charge failure</li> </ul>	<ul style="list-style-type: none"> <li>• Volt</li> <li>• current</li> <li>• power</li> <li>• speed</li> <li>• frequency</li> </ul>	
	<ul style="list-style-type: none"> <li>• oil pressure</li> <li>• oil temp</li> <li>• power factor</li> <li>• running time</li> <li>• water temp</li> <li>• battery voltage</li> </ul>	

### Option

#### Generator Set

- Trailer generator set
- ABB MCCB circuit breaker
- 50°C Radiator

#### Fuel system

- 12 hours base fuel tank
- 24 hours base fuel tank
- Dual wall base fuel tank
- External fuel tank

#### Exhaust system

- Residential exhaust silencer

#### Alternator

- PMG excitation
- Anti Condensation Heater

#### For cold area

- Water heater

#### Oil heater

- Oil heater
- Rapid water preheater (diesel burner)

#### Auto system

- Remote Control panel
- ATS control cabinet
- Paralleling System

#### External ATS



#### Water Heater



#### Oil Heater



#### Paralleling System

