

## Diesel Generating Set LGYD-55

### General Features

- |                     |          |                      |
|---------------------|----------|----------------------|
| <b>• Engine</b>     | Y4105ZLD | YTO Made in China    |
| <b>• Alternator</b> | WHI224D  | LONGEN Made in China |
| <b>• Controller</b> | AMF20    | COMAP Made in CEZCH  |



- Electric speed control
- 12V 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
- Base fuel tank: 185L

- 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				
415/240V	40	50	44	55	50	3	0.8	69.6
400/230V	40	50	44	55	50	3	0.8	72.2
380/220V	40	50	44	55	50	3	0.8	76.0

#### 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.

### Sales Promise

LONGEN POWER provides a full line of 100% brand new and high quality products.

Each and every unit is strictly factory tested before delivery.

Warranty is according to below standard conditions, subject to the earlier one.

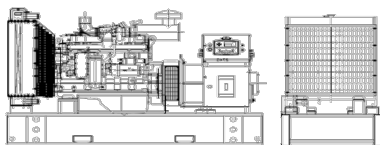
1. 15 months, counted on the day LONGEN sold to the first buyer.
2. One year after installation.
3. 1500 running hours.

Service and parts are available from LONGEN or distributors in your location.

### Dimension And Weight

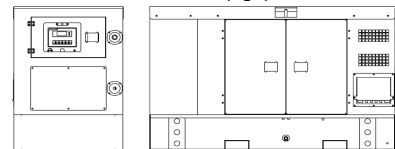
#### Open frame

Size(L×W×H): 1850×900×1400(mm)  
N.W.: 750(kgs)



#### Silent with Canopy

Size(L×W×H): 2280×950×1510(mm)  
N.W.: 1300 (kgs)



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**50Hz**

### Engine Specifications

1	Engine model	Y4105ZLD
2	Engine manufacturer	YTO
3	Number of cylinders	4
4	Cylinder arrangement	Vertical in line
5	Cycle	4 stroke
6	Aspiration	Naturally
7	Bore×Stroke(mm×mm)	105x118
8	Displacement (Liter)	4,1
9	Compression Ratio	18:1
10	Prime power/speed (kW/RPM)	55/1500RPM
11	Standby power/speed (kW/RPM)	57.7/1500RPM
12	Speed governor	Mechanical
13	Cooling system	Water-cooled
14	Coolant capacity (engine only) (L)	10,7
15	Steady speed droop (%)	≤3%
16	Total lubrication system capacity (L)	10,46
17	Oil consumption (% of fuel)	0,82
18	Fuel consumption at 100% load (L/H)	12,1
19	Fuel consumption at 75% load (L/H)	9,71
20	Fuel consumption at 50% load (L/H)	7,57
21	Starter motor	DC 24V
22	Dynamo	AC 24V

### Alternator Specifications

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

1	Alternator model	WHI224D
2	Alternator manufacturer	LONGEN
3	Exciter type	Single bearing, Brushless, Self-excited
4	Rated output prime power	50kVA
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	IP23

#### Alternator option


Mecc Alte, Stamford, LEROYSOMER

### Main Electrical Performance Data

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

## Diesel Generating Set LGYD-55

### Control System

COMAP Made in CEZCH		Model	AMF20
<b>Protection</b>		<b>Parameter</b>	<b>PHOTO</b>
● Low oil pressure	● Volt	● oil pressure	
● High water temp	● current	● oil temp	
● Over speed	● power	● power factor	
● over crank	● speed	● running time	
● Over load	● frequency	● water temp	
● Over/low volt		● battery voltage	
● Over/low frequency			
● Battery charge failure			

### 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
- Rapid water preheater (diesel burner)

**Auto system**

- Remote Control panel
- ATS control cabinet
- Paralleling System

**External ATS**



**Water Heater**



**Oil Heater**



**Paralleling System**

