



DIMET
INSUMOS INDUSTRIALES

Desde
1991



SC - CER582680

Diesel Generating BSG Set LGLL-22 50Hz

General Features

- **Engine** YSD490D YTO Made in CHINA
- **Alternator** WHI184ES LONGEN STANDFORD
- **Controller** AMF20 COMAP CEZCH

Prime power

16kW/20kVA

Standby power

17.6kW/22kVA



- 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: 120L

- 12V 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 kw	Prime kva	Standby kw	Standby kva				
415/240V	16	20	18	22	50	3	0.8	27.8
400/230V	16	20	18	22	50	3	0.8	28.9
380/220V	16	20	18	22	50	3	0.8	30.4

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.

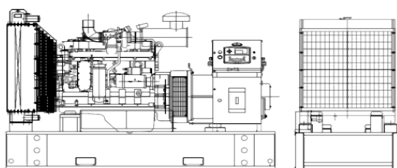
Rated voltage

Available with customers requirements.

Dimension And Weight

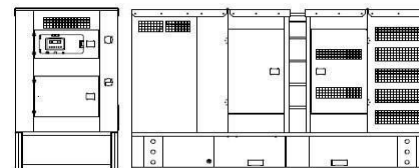
Open frame

Size(L×W×H): 1200×700×1100(mm) N.W.: 380 (kgs)



Silent with Canopy

Size(L×W×H): 1800×850×1150(mm) N.W.: 830 (kgs)



Importado y Distribuido por Dimet Ltda

Coronel Alvarado 2384, Independencia. Santiago Fono: 24570808 www.dimet.cl



Diesel Generating BSG Set LGLL-22 **50Hz**

Engine Specifications

1	Engine model	YSD490D (YTO/ISUZU)
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)	90x 100
8	Displacement (Liter)	2.54
9	Compression Ratio	18:1
10	Prime power/speed (kW/RPM)	21/1500RPM
11	Standby power/speed (kW/RPM)	23.1/1500RPM
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)	7.6
17	Oil consumption (% of fuel)	0.75
18	Fuel consumption at 100% load (L/H)	6.36
19	Fuel consumption at 75% load (L/H)	5.64
20	Fuel consumption at 50% load (L/H)	4.71
21	Starter motor	DC 12V/12.KW
22	Dynamo	AC 12V/30A

Alternator Specifications

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

1	Alternator model	WHI184ES
2	Alternator manufacturer	LONGEN
3	Exciter type	Single bearing, Brushless, Self-excited
4	Rated output prime power	20kVA
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



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Control System

Deepsea (UK)	Model	AMF20
Protection	Parameter	PHOTO
<ul style="list-style-type: none"> • Low oil pressure • High water temp • Over speed • over crank • Over load • Over/low volt • Over/low frequency • Battery charge failure 	<ul style="list-style-type: none"> • Volt • current • power • speed • frequency • oil pressure • oil temp • power factor • running time • water temp • battery voltage 	

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%	+5%	+/-10%	5S	0.5%	

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 fueltank
- 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

