



AFA Series M-40KW

*Imagen de referencia.

Generating set technical data

Prime power(output)	45kVA/36kW
Standby power(output)	50KVA/40 KW
Rated frequency	60 Hz
Rated speed	1800 rpm
Rated voltaje	220/127V
Phase	3
Power factor	0.8
Noise level @7mm db(A)(only for silent type)	70
Engine mode	4dw21-61D
Alternator model	LYG 184E
Fuel consumption of 75% load	8.89 Liters/h
Fuel consumption of 100% load	11.85 Liters/h

Dimension, weight, fuel tank capacity

Generating set model	M-40KW
Length (L) (mm)	2150
Width (W)(mm)	930
Height (H)(mm)	1150
Dry weight (kg)	1100
Tank capacity (L)	80
The loading capacity (40°C)	10 Sets

This data sheet is for reference only, please contact the salesman before ordering

Features:

- High quality, reliable and complete generating sets.
- Every generating set carries a comprehensive test program which includes 0%, 25%, 50%, 75%, 100%, 110% loading% test, and series protecting function(example: Low oil pressure, High coolant temperature, over current/load etc.) check.
- Easy for operation and maintenance
- Compact structure & high-strength chassis
- Base frame desing incorporates an integrate fuel tank for at least 8 hours running (up to 650KVA)
- The canopy body painting adopts the pretreatment process and the base frame painting adopts sandblasting + famous brand powder, the paint warranty period can be 1.5 years.
- High-performance free-maintenance batteries with isolation switch
- Anti - vibration pads are mounted between the engine/alternator feet and the base frame.
- Top lifting point and steel base frame with forklift holes, easy for transportation
- Compliance with international electrical safety standards
- Complete protection functions and safety levels
- A large number of marching optional to meet needs of various customers.

- Also available in the following voltages: 415/240V, 440/254V, 220/127V, 480/277V (According to customer requirements)
- Rated Power/ prime power (PRP): Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period, in accordance with ISO8528
- Standby Power/Emergency Standby Power (ESP): The maximum power available during a variable electrical power sequence, no overload on these ratings, in accordance with ISO 8528

AFA Series M-40KW

Engine Specifications

Engine model & manufacturer	4DX21-61D(FAW)
Emission Certification	---
Number of cylinders	4
Cylinder arrangement	In-line
Cycle	Four stroke
Aspiration	Naturally aspirated
Bore x Stroke	102x118 mm
Displacement	3.86 Liter
Compression ration	17: 1
Prime power/speed	45kW/1800 rpm
Standby power/speed	49.5kW/1800 rpm
Speed governor	Electronic
Cooling system	Forced water cooling cycle
Frequency droop	≤ 3%
Total lubrication system capacity	16 Liter
Coolant Capacity (engine Only)	13 Liter
Fuel consumption 100% load	224 g/kW.h (at 1500 rpm)
Starter motor	DC24V
Charge alternator	DC24V

- Heavy duty FAW diesel engine
- Four stroke, water cooled, turbocharged
- Direct injection fuel system
- Electronic governor system
- 12V DC starter and charge alternator
- Replaceable fuel filter and dry element air filter
- Cooling radiator and fan
- Starter battery (with lead acid) including rack and cables)
- Operation manuals and circuit diagram documents

SOLDEPYE

Alternator Specifications

Alternator model	LYG 184H
Alternator manufacturer	Tipo Stamford
Rated frequency/Rated speed	60 Hz/1800 rpm
Rated output prime power	46.9 kVA
rated voltage	220V
Phase	3
Power factor	0.8
Exciter type	Self excited, Brushless
Voltage adjust range	≥ 5.0%
Voltage regulation	≤ 1.0%
Insulation grade	H
Protection grade	IP 23

Alternator Optional

Optional alternator brand	Leroy Somer	Stamford
Optional alternator model	TAL-A42-F	S1L2-K1
Exciter type	Self-excited	Self-excited
Rated output prime power	49KVA	44.8 kVA



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Control System

- All MPMC generating sets have control cabinet mounted on the gen-set base frame.



- DSE4520 (Deepsea)
- Standard Gen-sets Controller



*Imagen de referencia.

The controller LCD display

- Voltage between phases (L-L)
- Voltage between neutral and phase(L-L)
- Frequency
- 3 Phase current
- Real power(kW) and apparent power (kVA)
- Power Factor
- Engine speed
- Running hours
- Coolant temperature
- Oil Pressure
- Battery Voltage
- LCD alarm indication
- 3 Phase mains (utility) Sending

DSE4520 Control system

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IL-NT-AMF25(ComAp)



DSE7320(Deepsea)



HGM6120(SmartGen)



Protecting Functions

- Emergency stop button
- Hi gh coolant temperature
- Low oil pressure
- Over current/load
- Under/over speed, frequency & voltage
- Low/high battery voltage
- Low coolant level

OPTIONAL

Engine	Alternator	Fuel System	Generating Set
<input type="checkbox"/> Water Jacket Preheater <input type="checkbox"/> Oil Preheater <input type="checkbox"/> Oil manual pump <input type="checkbox"/> Water separator	<input type="checkbox"/> PMG exitacion <input type="checkbox"/> Space heater <input type="checkbox"/> Winding temperature measuring <input type="checkbox"/> Parallel droop device	<input type="checkbox"/> 12/24 hour base tank <input type="checkbox"/> Dual wall base fuel tank <input type="checkbox"/> Outside fuel tank <input type="checkbox"/> Automatic fuel feeding <input type="checkbox"/> Switch between external tank and base tank (three-way valve)	<input type="checkbox"/> Tools with the machine <input type="checkbox"/> Customized instructions, materials, nameplates and toolboxes <input type="checkbox"/> Charger <input type="checkbox"/> Elec-oil level gauge

SoldePYE



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