



# MOSA GE 90 FSX (STAGE 3A)



Product price:

**22.590,97 € tax excluded**

## Product description:

MOSA GE90 FSX 52,8 KW generating set

MOSA GE90 FSX three-phase power generator of 52,8 KW with Iveco diesel engine. The MOSA GE90 FSX generator set is equipped with electric start. The alternator of the MOSA GE90 FSX generator set is synchronous, three-phase, self-excited, self-regulated, brushless with class H insulation with AVR voltage regulator.

This MOSA GE90 FSX is compact and convenient to maneuver and transport thanks to its compact size, with a weight of 1580 kg as well as its practical pierceable base. The MOSA GE90 FSX generator set with 230 liters fuel tank has a fuel consumption of 14,7 liters/hour at 75% of the load for a range of more than 15 hours.

## Technical specifications:

Three-phase Stand-by Output (LTP): 90 kVA (72 kW) / 400V / 130A

Three-phase PRP Output: 83 kVA (66.4 kW) / 400V / 120A

Three-phase COP Output: 66 kVA (52.8 kW) / 400V / 95.3A

Frequency: 50 Hz

Cos  $\phi$ : 0.8

## ENGINE TECHNICAL DATA

Model: FPT IVECO N45TE1F Stage 3A

Cylinders / Displacement: 4 / 4500 cm<sup>3</sup> (4.5 lt.)

Bore / Stroke: 104 / 132 (mm)

Compression Ratio: 17.5 : 1

Net standby output: 80 kW (109 hp)

Net PRP output: 72.5 kW (99 hp)

Net COP output: 58.4 kW (79 hp)

BMEP Effective Average Pressure: 1777 kPa - 1617 kPa



RPM Controller: Electronic

110 % (Stand-by Power): 20.5 lt./h - 209.7 g/kWh

100 % PRP: 18.8 lt./h - 212.5 g/kWh

75 % PRP: 14.7 lt./h - 220 g/kWh

50 % PRP: 11.5 lt./h - 234.5 g/kWh

Cooling system: Liquid

Total capacity - motor only: 10 lt - 8.5 lt.

Fan air flow: 132 m<sup>3</sup>/min.

Total oil capacity: 12.8 lt

Sump oil capacity: 8.5 lt ÷ 5.5 lt

Full load oil consumption: Max. exhaust gas flow rate: 8.6 kg/mim.

Max. exhaust gas temperature: 430 °C

Max. back pressure: 5 kPa (0.05 bar)

Electrical system: 12 Vdc

Starter motor power: 3 kW

Battery charging alternator capacity: 90 A

Cold start: - 10 °C

With cold start device: - 25 °C

Air filter: Dry

Combustion air flow: 7.1 m<sup>3</sup>/min

From exhaust: 630 kcal/kWh

From water and oil: 416 kcal/kWh

Injected to the environment: 84 kcal/kWh

Supercharged cooling: 115 kcal/kWh

#### TECHNICAL DATA ALTERNATOR

Continuous power: 85 kVA

Standby power: 94 kVA

Three-phase voltage: 380 - 415 Vac

Frequency: 50 Hz

Cos φ: 0.8

A.V.R. model.: MARK V

Voltage regulation accuracy: ± 0.5 %

Sustained short-circuit current: 3 In

Transient Cdt (100% of load): Response time: Efficiency at 100% load: 91 % (400V - Cos φ 0.8)

Isolation: Class H

Connection - Terminals: Star - No. 12

Electromagnetic compatibility: EN 55011

Harmonic distortion - THD: Telephone interference - THF: Direct synchronous - Xd: 285 %

Direct transitory - X'd: 22.5 %

Direct subtransitory - X'd: 10.8 %

Synchronous quad. - Xq: 160 %

Subtrans. in quadrature - X'q: 12 %

Of reverse sequence - X2: 11.4 %

Of zero sequence - X0: 2.5 %

Transitory - T'd: 0.071 sec  
Subtransitory - T'd: 0.005sec  
Unidirectional - T'do: 0. 82sec  
Unidirectional - Ta / Armatures - Ta: 0.005sec  
Short-circuit ratio Kcc: 0.38  
Protection class: IP 23  
Cooling air flow rate: 0.31 m<sup>3</sup>/sec.  
Coupling | Bearings: Direct SAE 3 -11 ½ - No. 1

#### GENERAL SPECIFICATIONS

Tank capacity: 230 lt.  
Run time (75% of PRP): 15. 5 h  
Measured acoustic power LwA: 92 dB(A) (67 dB(A) @ 7m)  
Guaranteed acoustic power LwA: 94 dB(A) (69 dB(A) @ 7m)  
Performance class: G3  
Length: 2630 mm  
Width: 1130 mm  
Height: 1750 mm  
Weight: 1630 Kg

MOSA - Iveco diesel engine electric start - Three-phase alternator - Three-phase power 83 kVA (66.4 kW)

If you are looking for another product like the MOSA GE90 FSX generator set then you can browse our catalog for more land based generator sets.

Images and technical data are not binding.

#### Product features:

Phase: Single phase / Three phase  
Maximum power three phase (KW): 52.8  
Continuous power three phase (KW): 48  
Maximum power three phase (KVA): 90  
Continuous power three phase (KVA): 66  
Fuel: Diesel  
Frequency (Hz): 50  
Voltage (V): 230 / 400  
Engine: FPT (IVECO) N45TE1F, 4 stroke turbo-aftercooler  
Emissions Regulations: Stage 3A  
Engine rpm (rpm): 1500  
Speed governor: Electronic  
Starting system: Electric

Engine capacity (cm<sup>3</sup>): 4500

Number cylinders: 4

Oil capacity (L): 12.8

Cooling: Water

Inyección : Direct

Alternator: Three-phase synchronous self-excited, self-regulated, brushless

Bore x stroke (mm): 104 x 132

Fuel tank capacity (L): 230

Consumption (L/h): 14.7 at 75% of the load

Running time (h): 15.5 at 75% of the load

Acoustic power: 94 dB(A)

Acoustic pressure: 69 dB(A) at 7 m

Length (mm): 2630

Width (mm): 1130

Height (mm): 1750

Dry weight (Kg): 1630

Silenced: Yes

Super silenced: Yes

Product type: Generator

ATS Switch device : Optional

Voltage regulator: AVR

Engine manufacturer: FPT Iveco