



# MOSA GE 90 FSX

**Product price:**

**18.470,41 € 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 is compact and convenient to maneuver and transport thanks to its compact size, with a weight of 1580 kg in addition to its practical pierceable base. The MOSA GE90 FSX generator set with 230 liters fuel tank has a fuel consumption of 14,3 liters/hour at 75% of the load for a 16 hours autonomy.

## **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 NEF45 SM3

Net stand-by output: 81 kW (110 hp)

Net PRP output: 73.3 kW (100 hp )

Net COP output: 58.4 kW (79 hp )

Cylinders/Displacement: 4 / 4500 cm<sup>3</sup> (4. 5 lt.)

Bore / Stroke: 104 / 132 (mm)

Compression Ratio: 17.5: 1

BMEP (Effective Average Pressure: 1777 kPa - 1617 kPa





RPM Controller: Mechanical

110 % (Standby Power): 21. 2 lt./h - 215.8 g/kWh

100 % PRP: 19.4 lt./h - 216.7 g/kWh

75 % PRP: 14.3 lt./h - 215.4 g/kWh

50 % PRP: 9.6 lt./h - 214. 4 g/kWh

Cooling system: Liquid

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

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

Total oil capacity: 12.8 l

Oil capacity in sump: 8.5 lt. ÷ 5.5 lt.

Oil consumption at full load: Maximum exhaust gas flow: 5.75 kg/mim.

Maximum exhaust gas temperature: 516 °C

Maximum back pressure: 5 kPa (0.05 bar)

Electrical system: 12 Vdc

Starter motor power: 3 kW

Alternating capacity. battery charge: 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: 543 kcal/kWh

From water and oil: 412 kcal/kWh

Injected into the environment: 335 kcal/kWh

#### TECHNICAL DATA ALTERNATOR

Continuous power: 85 kVA

Standby power: 94 kVA

Three-phase voltage: 380 - 415 Vac

Frequency: 50 Hz

Cos ? : 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: Yield at 100% load 91 %: (400V - Cos ? 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 m³/sec.  
Coupling | Bearings: Direct SAE 3 -11 ½ - No. 1

#### GENERAL SPECIFICATIONS

Tank capacity: 230 lt.  
Autonomy (75% of PRP): 116 h  
Acoustic power measured LwA: 92 dB(A) (67 dB(A) @ 7m)  
Acoustic power guaranteed LwA: 94 dB(A) (69 dB(A) @ 7m)  
Performance class: G3  
Length: 2630 mm  
Width: 1130 mm  
Height: 1750 mm  
Weight: 1580 Kg

MOSA GE90 FSX - Iveco diesel engine electric start - Three-phase alternator - Three-phase power 83 kVA (66. 4 kW)

#### Features:

- Electronic voltage regulation AVR
- Version also available with STAGE 3A engine
- Sealed crankcase able to contain any leakage of liquids present in the engine avoiding environmental pollution
- Oil extraction pump
- Fuel pre-filter with water decanter
- Large access doors to allow easy maintenance (replacement of air, oil, fuel filters)
- Central lifting hook
- Control panel with digital control unit in Automatic or Manual version
- Ready for a wide range of equipment
- Supersilenced
- Complies with EC directives for noise and safety

If you are looking for another product like the Generator Set MOSA GE90 FSX then you can see on our catalog other terrestrial generators.

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 NEF45 SM3  
Emissions Regulations: Stationary Use  
Engine rpm (rpm): 1500  
Speed governor: Mechanical  
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): 14.38 at 75% of the load  
Running time (h): 16 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): 1580  
Silenced: Yes  
Super silenced: Yes  
Product type: Generator  
ATS Switch device : Optional  
Voltage regulator: AVR  
Engine manufacturer: FPT Iveco

