

# MOSA GE 110 FSX Three-phase 110 kVA AVR generator



**Product price:**

**20.710,96 € tax excluded**

## Product description:

MOSA GE110 FSX 88 KW generating set

MOSA GE110 FSX three-phase 88 KW generator set with Iveco diesel engine. The MOSA GE110 FSX generator set is equipped with electric start. The alternator of the MOSA GE110 FSX generator set is synchronous, three-phase, self-excited, self-regulated, brushless with class H insulation with AVR voltage regulator.

This MOSA GE110 FSX is compact and convenient to maneuver and transport thanks to its compact size, weighing 1670 kg as well as its practical, drillable base. The MOSA GE110 FSX generator set with 230-liter fuel tank has a fuel consumption of 16.2 liters/hour at 75% load for an autonomy of 13 hours.

## Technical specifications:

Three-phase Stand-by Output (LTP): 110 kVA (88 kW) / 400V / 159A

Three-phase PRP Output: 100 kVA (80 kW) / 400V / 144A

Three-phase COP Power: 81.5 kVA (65.2 kW) / 400V / 117.6A

Frequency 50 Hz

Cos  $\phi$ : 0.8

## ENGINE TECHNICAL DATA

Model: Iveco FPT NEF45 TM2

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

Bore / Stroke: 104 / 132 (mm)

Compression Ratio: 17.5 : 1

Net Standby Output: 96.2 kW (131 hp)

Net PRP Output: 87.5 kW (119 hp)

Net COP Output: 70 kW (95 hp)

BMEP Effective Average Pressure: 1742 kPa - 1584 kPa



RPM Regulator: Mechanical

110 % (Stand-by Power): 24. 4 lt./h - 209.2 g/kWh

100 % PRP: 22 lt./h - 207.7 g/kWh

75 % PRP: 16.2 lt./h - 203.5 g/kWh

50 % PRP: 11 lt./h - 206. 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: 8.9 kg/mim.

Max. exhaust gas temperature: 533 °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. 4 m<sup>3</sup>/min

From exhaust: 732 kcal/kWh

From water and oil: 417 kcal/kWh

Irradiated to the environment: 129 kcal/kWh

Supercharger cooling: 55 kcal/kWh

#### TECHNICAL DATA ALTERNATOR

Continuous power: 105 kVA

Standby power: 116 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: 91.8 % (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: 275 %

Direct Transitory - X'd: 21 %

Direct Subtransitory - X "d: 9. 9 %

Synchronous in quad. - Xq: 150 %

Subtrans. in quadrature - X'q: 10.9 %

Of reverse sequence - X2: 10.4 %

Of zero sequence - X0: 2.2 %





Transitory - T'd: 0.078 sec  
Subtransitory - T'd: 0.006sec  
Avoid - T'do: 0.95 sec  
Unidirectional - Ta / Armatures - Ta: 0.006 sec  
Short-circuit ratio Kcc: 0.4  
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.  
Autonomy (75% of PRP): 13 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: G2  
Length: 2630 mm  
Width: 1130 mm  
Height: 1750 mm  
Weight: 1670 Kg

MOSA - Iveco diesel engine electric start - Three-phase alternator - Three-phase power 100 kVA (80 kW)

#### Features:

- Electronic voltage regulation AVR
- Version also available with STAGE 3A engine
- Sealed basement 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 such as Generator Set MOSA GE110 FSX then you can see on our catalog other terrestrial generators.

Images and technical data are not binding.





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### Product features:

Phase: Single phase / Three phase

Maximum power three phase (KW): 88

Continuous power three phase (KW): 65.2

Maximum power three phase (KVA): 110

Continuous power three phase (KVA): 81.5

Fuel: Diesel

Frequency (Hz): 50

Voltage (V): 230 / 400

Engine:

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): 16.2 at 75% of the load

Running time (h): 13 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): 1670

Silenced: Yes

Super silenced: Yes

Product type: Generator

ATS Switch device : Optional

Voltage regulator: AVR

Engine manufacturer: FPT Iveco

