



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

Reference: CL7M6056

### 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 φ: 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: < 0.023 lt./h  
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 φ: 0.8  
A.V.R. model.: MARK V  
Voltage regulation accuracy: ± 0.5 %  
Sustained short-circuit current: 3 I<sub>n</sub>  
Transient Cdt (100% of load): < 20 %  
Response time: < 0.3 sec  
Yield at 100% load: 91.8 % (400V - Cos φ 0.8)  
Isolation: Class H  
Connection - Terminals: Star - No. 12  
Electromagnetic Compatibility: EN 55011  
Harmonic Distortion - THD: < 2 %  
Telephone Interference - THF: < 2 %  
Direct Synchronous - X<sub>d</sub>: 275 %  
Direct Transitory - X'<sub>d</sub>: 21 %  
Direct Subtransitory - X''<sub>d</sub>: 9.9 %  
Synchronous in quad. - X<sub>q</sub>: 150 %  
Subtrans. in quadrature - X'<sub>q</sub>: 10.9 %  
Of reverse sequence - X<sub>2</sub>: 10.4 %  
Of zero sequence - X<sub>0</sub>: 2.2 %  
Transitory - T'<sub>d</sub>: 0.078 sec  
Subtransitory - T''<sub>d</sub>: 0.006 sec  
Avoid - T'<sub>do</sub>: 0.95 sec  
Unidirectional - T<sub>a</sub> / Armatures - T<sub>a</sub>: 0.006 sec  
Short-circuit ratio K<sub>cc</sub>: 0.4  
Protection class: IP 23  
Cooling air flow rate: 0.31 m<sup>3</sup>/sec.  
Coupling I Bearings: Direct SAE 3 - 11 1/2 - No. 1

#### GENERAL SPECIFICATIONS

Tank capacity: 230 lt.  
Autonomy (75% of PRP): 13 h  
Acoustic power measured L<sub>wA</sub>: 92 dB(A) (67 dB(A) @ 7m)  
Acoustic power guaranteed L<sub>wA</sub>: 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.

**Technical Sheet**

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 ATS
Voltage regulator	AVR
Engine manufacturer	FPT Iveco