



MOSA GE 90 FSX

Reference: CL6M4056

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 φ: 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 cm³ (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 m³/min.
Total oil capacity: 12.8 l
Oil capacity in sump: 8.5 lt. + 5.5 lt.
Oil consumption at full load: < 0.023 l/h
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 m³/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 ϕ : 0.8
A.V.R. model. : MARK V
Voltage regulation accuracy: ± 0.5 %
Sustained short-circuit current: 3 I_n
Transient Cdt (100% of load): < 20 %
Response time: < 0.3 sec
Yield at 100% load 91 %: (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_d: 285 %
Direct transitory - X'_d: 22.5 %
Direct subtransitory - X''_d: 10.8 %
Synchronous quad. - X_q: 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 - T_a / Armatures - T_a: 0.005sec
Short-circuit ratio K_{cc}: 0.38
Protection class: IP 23
Cooling air flow rate: 0.31 m³/sec.
Coupling I Bearings: Direct SAE 3 -11 1/2 - No. 1

GENERAL SPECIFICATIONS

Tank capacity: 230 lt.
Autonomy (75% of PRP): 116 h
Acoustic power measured L_{wA}: 92 dB(A) (67 dB(A) @ 7m)
Acoustic power guaranteed L_{wA}: 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.

Technical Sheet

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 ³)	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 ATS
Voltage regulator	AVR
Engine manufacturer	FPT Iveco