



## MOSA GE 55 PS

Reference: CG1J1052

### MOSA GE55 PS 40,8 KW generating set

MOSA GE55 PS three-phase 40,8 KW generator set with Perkins diesel engine. The MOSA GE55 PS generator set is equipped with electric start. The alternator of the MOSA GE55 PS 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 940 kg as well as its practical pierceable base. The MOSA GE55 PS generator set with 65 liters tank has a fuel consumption of 8,2 liters/hour at 75% of the load for an autonomy of 8 hours.

**Socket:**

1x 400V 63A 3P+N+T

1x 230V 16A 2P+T

### Technical specifications:

Three-phase Stand-By output (LTP): 51 kVA (40.8 kW) / 400V / 73.6 A

Three-phase output: 46 kVA (36.8 kW) / 400V / 66.4 A

Single-phase output: 17 kVA / 230V / 73.9 A

Frequency: 50 Hz

Cos φ: 0.8

**ENGINE TECHNICAL DATA**

Model: PERKINS - 1103A-33TG1

Net stand-by output: 45.6 kWm (62 hp)

Net PRP output: 41.3 kWm (56.2 hp)

Cylinders / Displacement: 3/ 3300 cm<sup>3</sup> (3.3 ltr.)

Bore / Stroke: 105 / 127 (mm)

Compression Ratio: 17.25 : 1

BMEP (Effective Average Pressure: 1128 kPa - 1023 kPa)

RPM Controller: Mechanical

110 % (Stand-by Power): 219 g/kWh - 12 lt. /h

100 % PRP: 217 g/kWh - 10.7 lt./h

75 % PRP: 220 g/kWh - 8.2 lt./h

50 % PRP: 264 g/kWh - 5.7 lt. /h

Cooling system: Liquid

Total capacity - engine only: 10.2 lt - 4.,4 lt

Fan air flow: 53 m<sup>3</sup>/min

Total oil capacity: 8.3 lt

Sump oil capacity: 6.2 lt ÷ 7.8 lt  
Full load oil consumption: < 0.016 lt./h  
Maximum exhaust gas flow: 7.7 m<sup>3</sup>/min.  
Max. exhaust gas temperature: 537 °C  
Max. back pressure: 10 kPa (0.10 bar)  
Electrical system: 12 Vdc  
Starter motor power: 3 kW  
Battery charging alternator capacity: 65 A  
Cold start: - 10°C  
With cold start device: - 25 °C  
Air filter: Dry  
Combustion air flow: 3.1 m<sup>3</sup>/min  
From exhaust gas: 35 kW - 1992 Btu/min.  
From water and oil: 30 kW - 1707 Btu/min.  
Fired to the environment: 8 kW - 455 Btu/min.

#### TECHNICAL DATA ALTERNATOR

Continuous power: 48 kVA  
Standby power: 53 kVA  
Three-phase voltage: 380-415 Vac  
Frequency: 50 Hz  
A.V.R. model: MARK V  
Voltage regulation accuracy: ± 0.5 %  
Sustained short-circuit current: 3 In  
Transient Cdt (100% of load): 20 %  
Response time: ? 0.3 sec.  
Yield at 100% load: 88.7 % (400V - Cos ? 0.8)  
Isolation: Class H  
Connection - Terminals: Star - No. 12  
Electromagnetic compatibility: EN 55011  
Harmonic distortion - THD: < 2 %  
Telephone interference - THF: < 2 %  
Direct synchronous - Xd: 270 %  
Direct transient - X'd: 22.5 %  
Direct subtransitory - X'd: 11.4 %  
Synchronous quad. - Xq: 150 %  
Subtransitory in quadrature - X'q: 13.2 %  
Of reverse sequence - X2: 12.3 %  
Of zero sequence - X0: 2.6 %  
Transitory - T'd: 0.055 sec  
Subtransitory - T'd: 0.010sec  
Unidirectional - T'do: 0.57sec  
Unidirectional - Ta: 0.010sec  
Kcc short-circuit ratio: 0.40  
Cooling air flow rate: 0.21 m<sup>3</sup>/sec.  
Coupling I Bearings: Direct SAE 3 -11 ½ - No. 1

#### GENERAL SPECIFICATIONS

Tank capacity: 65 lt.  
Autonomy (75% of PRP): 8 h  
Acoustic power measured LwA: 94 dB(A) (69 dB(A) @ 7m)  
Acoustic power guaranteed LwA: 95 dB(A) (70 dB(A) @ 7m)  
Performance class: G2  
Length: 2030 mm  
Width: 870 mm  
Height: 1130 mm  
Weight: 940 Kg

MOSA GE55 PS - Perkins diesel engine electric start - Three-phase alternator - Three-phase power 46 kVA (36.8 kW)

#### Features:

- Electronic AVR voltage regulation
- Fully openable engine side enclosure facilitating all maintenance operations
- Recessed control panel can be closed by padlock, It houses the sockets and controls of the machine
- Central lifting hook
- Supersilenced
- Prepared for use with EAS automatic panel (AMF + ATS)
- Complies with EC directives for noise and safety

If you are looking for another product like the generator set MOSA GE55 PS then you can see on our catalog other [terrestrial generators](#).

Images and technical data are not binding.

#### Technical Sheet

Phase	Single phase / Three phase
Continuous power single phase (KW)	13.6
Continuous power single phase (KVA)	17
Maximum power three phase (KW)	40.8
Continuous power three phase (KW)	36.8
Maximum power three phase (KVA)	51
Continuous power three phase (KVA)	46
Fuel	Diesel
Frequency (Hz)	50
Voltage (V)	230 / 400
Sockets configuration	1 x 400V 63A 3P+N+T CEE - 1 x 230V 16A 2P+T CEE
Engine	PERKINS 1103A-33TG1, 4 stroke turbocharged
Emissions Regulations	Stationary Use
Engine rpm (rpm)	1500
Starting system	Electric
Engine capacity (cm <sup>3</sup> )	3300
Number cylinders	3
Cooling	Water
Inyección	Direct
Alternator	Three-phase synchronous self-excited, self-regulated, brushless
Product type	Generator
ATS Switch device	Optional ATS
Voltage regulator	AVR
Engine manufacturer	Perkins