



MOSA GE 120 PSX Three-phase generating set 114 kVA AVR

Product description:

MOSA GE120 PSX generator set 91,2 KW

MOSA GE120 PSX three-phase 91,2 KW generator set with Perkins diesel engine. The MOSA GE120 PSX generator set is equipped with electric start. The alternator of the MOSA GE120 PSX generator set is synchronous, three-phase, self-excited, self-regulated, brushless with class H insulation with AVR voltage regulator.

This MOSA GE120 PSX is compact and convenient to maneuver and transport thanks to its compact size, weighing 1720 kg as well as its practical drillable base. The MOSA GE120 PSX generator set with 230-liter fuel tank has a fuel consumption of 17.1 liters/hour at 75% load for a range of 13 hours.

Technical specifications:

Three-phase output Stand-by (LTP): 114 kVA (91.2 kW) / 400 V / 164.5 A

Three-phase output PRP: 104 kVA (83.2 kW) / 400 V / 150 A

Frequency: 50 Hz

Cos ϕ : 0.8

ENGINE TECHNICAL DATA

Model: PERKINS 1104C-44TAG2

Cylinders / Displacement: 4 / 4400 cm³ (4.4 lt.)

Bore / Stroke: 105 / 127 (mm)

Compression Ratio: 18.3 : 1

Net Standby Output: 99.5 kW (135 hp)

Net PRP Output: 90.1 kW (122 hp)

BMEP Effective Average Pressure: 1873 kPa - 1702 kPa

RPM Controller: Electronic

110 % (Stand-by Power): 205 g/kWh - 24.9 lt. /h

100 % PRP: 205 g/kWh - 22.6 lt./h



75 % PRP: 207 g/kWh - 17.1 lt./h
50 % PRP: 204 g/kWh - 11.2 lt./h
Total capacity - motor only: 12. 6 lt - 7 lt.
Fan air flow: 165.6 m³/min.
Sump oil capacity: 8 lt ÷ 5.5 lt
Full load oil consumption: 0.034 lt./h
Max. exhaust gas flow: 16.3 m³/min.
Max. exhaust gas temperature: 543 °C
Max. back pressure: 15 kPa (0. 15 bar)
Electrical system: 12 Vdc
Starter motor power: 3.2 kW
Battery charging alternator capacity: 65 A
Cold start: - 10 °C
With cold start device: - 25 °C
Air filter: Dry
Combustion air flow rate. 6.27 m³/min
From exhaust: 78.9 kW - 4485 Btu/min.
From water and oil: 50.7 kW - 2281 Btu/min.
Fired to ambient: 7.5 kW - 424 Btu/min.
Supercharger cooling: 10.9 kW - 621 Btu/min.

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 In
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 - 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 m³/sec.
Coupling | Bearings: Direct SAE 3 -11 ½ - No. 1

GENERAL SPECIFICATIONS

Tank capacity: 230 lt.
Run time (75% of PRP): 13.5 h
Measured acoustic power LwA: 92 dB(A) (67 dB(A) @ 7m)
Guaranteed acoustic power LwA: 94 dB(A) (69 dB(A) @ 7m)
Performance class: G3
Length: 2630 mm
Width: 1130 mm
Height: 1750 mm
Weight: 1720 kg

MOSA - Perkins diesel engine electric start - Three-phase alternator - Three-phase power 104 kVA (83.2 kW)

If you are looking for another product like the Generator Set MOSA GE120 PSX 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): 91.2
Continuous power three phase (KW): 83.2
Maximum power three phase (KVA): 114
Continuous power three phase (KVA): 104
Fuel: Diesel
Frequency (Hz): 50
Voltage (V): 230 / 400
Engine: PERKINS 1104C-44TAG2, 4 stroke turbo-aftercooler
Emissions Regulations: Stationary Use
Engine rpm (rpm): 1500
Speed governor: Electronic
Starting system: Electric



Engine capacity (cm³): 4400

Number cylinders: 4

Cooling: Water

Inyección : Direct

Alternator: Sincrono trifase, autoeccitato, autoregolato, senza spazzole

Bore x stroke (mm): 105 x 127

Fuel tank capacity (L): 230

Consumption (L/h): 17.1 at 75% of the load

Running time (h): 13.5 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): 1720

Silenced: Yes

Super silenced: Yes

Product type: Generator

ATS Switch device : Optional

Voltage regulator: AVR

Engine manufacturer: Perkins

