



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

Reference: CMOD10E2E STD /

### 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 cm<sup>3</sup> (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 m<sup>3</sup>/min.

Sump oil capacity: 8 lt + 5.5 lt

Full load oil consumption: &lt; 0.034 lt./h

Max. exhaust gas flow: 16.3 m<sup>3</sup>/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 m<sup>3</sup>/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 m<sup>3</sup>/sec.  
Coupling I 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.

## Technical Sheet

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 (cm <sup>3</sup> )	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 ATS

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Voltage regulator	AVR
Engine manufacturer	Perkins

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