



MOSA GE 20 PSX

Reference: CF6C1003

MOSA GE20 PSX 17,6 KW generating set

MOSA GE20 PSX three-phase 17.6 KW generator set with Perkins diesel engine. The MOSA GE20 PSX is equipped with electric start. The alternator of the MOSA GE20 PSX generator set is synchronous, three-phase, self-excited, self-regulated, brushless with class H insulation with AVR voltage regulator.

This MOSA generator set is compact and convenient to maneuver and transport thanks to its compact size, with a weight of 650 kg in addition to the practical pierceable base.

The MOSA GE20 PSX generator set with 60-liter tank has a fuel consumption of 4 liters/hour at 75% load for a 15-hour autonomy.

Sockets:

1x 400V 32A 3P+N+T CEE

1x 400V 16A 3P+N+T CEE

2x 230V 16A 2P+T CEE

Technical specifications MOSA GE20 PSX:

Three-phase output Stand-by (LTP): 22 kVA (17.6 kW) / 400V / 31.8 A

Three-phase output PRP: 20 kVA (16 kW) / 400V / 28.9 A

Single-phase output PRP: 7 kVA / 230V / 30.4A

Frequency: 50 Hz

Cos φ: 0.8

MOTOR TECHNICAL DATA

Model: PERKINS - 404A-22G1

Net standby output: 20.3 kWm (27.6 hp)

Net PRP output: 18.4 kWm (25 hp)

Cylinders / Displacement: 4 / 2216 cm³

Bore / Stroke: 84 / 100 (mm)

Compression Ratio: 23.3 : 1

BMEP (Mean Effective Pressure): 743.7 kPa - 669.3 kPa

RPM Controller: Mechanical

110 % (Standby Power): 6.1 lt./h

100 % PRP: 5.3 lt./h

75 % PRP: 4 lt./h

50 % PRP: 2.9 lt./h

Cooling System: Liquid

Total Capacity - Engine Only: 7 lt - 3.6 lt

Fan air flow rate: 40.2 m³/min

Sump oil capacity: 10.3 lt
Maximum exhaust gas flow rate: 3.94 m³/min
Maximum exhaust gas temperature: 505 °C
Maximum back pressure: 10.2 kPa (0.102 bar)
Electrical system: 12 Vdc
Starter motor power: 2 kW
Alternating capacity, battery charge: 55 A
Cold start: - 15 °C
Combustion air flow: 1.45 m³/min
From exhaust gas: 16.6 kW - 944 Btu/min.
From water and oil: 19.6 kW - 1114 Btu/min.
From environment: 4.4 kW - 250 Btu/min.

TECHNICAL DATA ALTERNATOR

Continuous power: 20 kVA
Standby power: 23 kVA
Single-phase voltage: 380-415 Vac
Frequency: 50 Hz
Cos φ: 0.8
Voltage regulation accuracy: ± 1 %
Sustained short circuit current: 2.5 In
Transient Cdt (100% load): 10 %
Response time: ? 3 sec.
Efficiency at 100% load: 86.1 % (400V - Cos φ 0.8)
Isolation: Class H
Connection - Terminals: Series - No. 12
Electromagnetic compatibility: EN55011
Harmonic distortion - THD: < 3 %
Direct synchronous - Xd: 242 %
Direct transistor - X'd: 19 %
Direct subtransistor - X "d: 9 %
Synchronous in quad. - Xq: 133 %
Transitory - T'd: 0.007 sec
Subtransitory - T "d: 0.005 sec
Unloaded - T'do: 0.103 sec
Short circuit ratio Kcc: 0.57
Protection Class: IP 23
Cooling air flow: 0.1 m³/sec.
Coupling - Bearings: Direct SAE 4 - 7 1/2 - N°1
Voltage controller: AVR
A.V.R. model: HVR-30 (3ph. sensing)

GENERAL SPECIFICATIONS

Tank capacity: 60 lt
Range of autonomy (75% of PRP): 15 h
Starting battery: 12 Vdc -80 Ah
Metered acoustic power LwA: 90 dB(A) (65 dB(A) @ 7m)
Guaranteed acoustic power LwA: 91 dB(A) (66 dB(A) @ 7m)
Performance class: G2
Length: 1720 mm
Width: 980 mm
Height: 1110 mm
Weight: 650 kg

MOSA GE20 PSX - Perkins diesel engine electric start - Three-phase alternator - Three-phase power 20 kVA (16 kW)

Features:

- Combined regulation with: AVR and Compound electronic voltage regulator
- Fully openable motor-side enclosure that facilitates 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 automatic EAS (AMF + ATS)
- Complies with EC directives for noise and safety

If you are looking for another product like the generator set MOSA GE20 PSX then you can see on our catalog other [terrestrial generators](#).

Images and technical data are not binding.

Technical Sheet

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|-------------------------------------|---|
| Phase | Single phase / Three phase |
| Continuous power single phase (KW) | 5.6 |
| Continuous power single phase (KVA) | 7 |
| Maximum power three phase (KW) | 17.6 |
| Continuous power three phase (KW) | 16 |
| Maximum power three phase (KVA) | 22 |
| Continuous power three phase (KVA) | 20 |
| Fuel | Diesel |
| Frequency (Hz) | 50 |
| Voltage (V) | 230 / 400 |
| Sockets configuration | 1 x 400V 32A 3P+N+T CEE - 1 x 400V 16A 3P+N+T CEE - 2 x 230V 16A 2P+T CEE |
| Engine | PERKINS 404A-22G1, 4 stroke naturally aspirated |
| Emissions Regulations | Stationary Use |
| Engine rpm (rpm) | 1500 |
| Starting system | Electric |
| Engine capacity (cm ³) | 2216 |
| Number cylinders | 4 |
| Cooling | Water |
| Inyección | Indirect |
| Alternator | Sincrono trifase, autoeccitato, autoregolato, senza spazzole |
| Product type | Generator |
| ATS Switch device | Optional ATS |
| Voltage regulator | AVR |
| Engine manufacturer | Perkins |