



## 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 cm<sup>3</sup>

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 m<sup>3</sup>/min

Sump oil capacity: 10.3 lt  
Maximum exhaust gas flow rate: 3.94 m<sup>3</sup>/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 m<sup>3</sup>/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 m<sup>3</sup>/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

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 <sup>3</sup> )	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