

# MOSA GE 165 PSX



## Product description:

MOSA GE165 PSX 132 KW generating set

MOSA GE165 PSX three-phase 132 KW generator set with Perkins diesel engine. The MOSA GE165 PSX generator set is equipped with electric start. The alternator of the MOSA GE165 PSX 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 2230 kg in addition to its practical drillable base. The MOSA GE165 PSX generator set with 230-liter fuel tank has a fuel consumption of 24.7 liters/hour at 75% load for an autonomy of more than 9 hours.

## Technical specifications:

Three-phase output Stand-by (LTP): 165 kVA (132 kW) / 400V / 238.1 A

Three-phase output PRP: 150 kVA (120 kW) / 400V / 216.5 A

Frequency: 50 Hz

Cos φ: 0.8

## ENGINE TECHNICAL DATA

Model: PERKINS 1106A - 70TAG2

Cylinders / Displacement: 6/ 7010 cm<sup>3</sup> (7.01 lit.)

Bore / Stroke: 105 / 135 (mm)

Compression ratio: 18.2 : 1

Net stand-by output: 144 kW (196 hp)

Net PRP output: 131 kW (178 hp)

BMEP Effective average pressure LTP - PRP: 1702 kPa - 1552 kPa

RPM controller: Mechanical

110 % (Stand-by power): 201.1 g/kWh - 36.1 l/h

100 % PRP: 203.3 g/kWh - 33.4 l/h  
75 % PRP: 199.7 g/kWh - 24.7 l/h  
50 % PRP: 197.9 g/kWh - 16.4 l/h  
Cooling system: Liquid  
Total capacity - motor only: 21 l - 9.5 l  
Fan air flow: 282 m<sup>3</sup>/min.  
Total oil capacity: 16.5 l  
Sump oil capacity: 12.4 l (min) - 14.9 l (max)  
Full load oil consumption: Maximum exhaust gas flow rate: 25.53 m<sup>3</sup>/min.  
Max. exhaust gas temperature: 484 °C  
Max. back pressure: 6 kPa (0.06 bar)  
Electrical system: 12 Vdc  
Starter motor power: 4.2 kW  
Battery charging alternator capacity: 65 A  
Cold start: - 10 °C  
With cold start device: - 20 °C  
Air filter: Dry  
Combustion air flow: 10.67 m<sup>3</sup>/min.  
From exhaust: 105.6 kW  
From water and oil: 75.7 kW  
Injected to environment: 12.2 kW  
Supercharger cooling: 20.5 kW

#### TECHNICAL DATA ALTERNATOR

Continuous power: 165 kVA  
Standby power: 180 kVA  
Three-phase voltage: 380-415 Vac  
Frequency: 50 Hz  
Cos φ: 0.8  
A.V.R. model. : MARK I  
Voltage regulation accuracy: ± 0.5 %  
Sustained short circuit current: 3 In  
Transient Cdt (100% of load): Response time: Yield at 100% load: 92.9 % (400V - Cos φ 0.8)  
Isolation: Class H  
Connection - Terminals: Star - No. 12  
Electromagnetic Compatibility: EN55011  
Harmonic Distortion - THD: Telephone Interference - THF: Direct Synchronous - Xd: 280 %  
Direct Transitory - X'd: 24 %  
Direct Subtransitory - X "d: 13.5 %  
Synchronous in quad. - Xq: 135 %  
Subtrans. in quadrature - X'q: 14.9 %  
Of reverse sequence - X2: 14.2 %  
Of zero sequence - X0: 2.9 %  
Transitory - T'd: 0.09 sec  
Subtransitory - T'd: 0.011 sec

Unidirectional - T'do: 0. 95 sec  
Unidirectional - Ta: 0.012 sec  
Kcc short-circuit ratio: 0.47  
Cooling air flow rate: 0.42 m<sup>3</sup>/sec.  
Coupling | Bearings: Direct SAE 3 -11 ½ - No. 1

#### GENERAL SPECIFICATIONS

Tank capacity: 230 lt.  
Run time (75% of PRP): 9. 5 h  
Measured acoustic power LwA: 94 dB(A) (69 dB(A) @ 7m)  
Guaranteed acoustic power LwA: 96 dB(A) (71 dB(A) @ 7m)  
Performance class: G2  
Length: 3400 mm  
Width: 1200 mm  
Height: 1800 mm  
Weight: 2230 Kg

MOSA GE165 PSX - Perkins diesel engine electric start - Three-phase alternator - Three-phase power 150 kVA (120 kW)

#### Features:

- Electronic AVR voltage regulation
- Oil extraction pump
- Large access doors to allow easy maintenance (change air filters, oil, fuel filters)
- Central lifting hook
- Control panel with digital control unit in Automatic or Manual version
- Sealed basement that can contain any leakage of liquids in the engine avoiding environmental pollution
- Supersilenced
- Complies with EC directives for noise and safety

If you are looking for another product like the Generating Set MOSA GE165 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  
Continuous power single phase (KW): 44  
Continuous power single phase (KVA): 55  
Maximum power three phase (KW): 132  
Continuous power three phase (KW): 120

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Maximum power three phase (KVA): 165  
Continuous power three phase (KVA): 150  
Fuel: Diesel  
Frequency (Hz): 50  
Voltage (V): 230 / 400  
Engine: PERKINS 1106A-70TAG2, 4 stroke turbo-aftercooler  
Emissions Regulations: Stationary Use  
Engine rpm (rpm): 1500  
Starting system: Electric  
Engine capacity (cm<sup>3</sup>): 7010  
Number cylinders: 6  
Cooling: Water  
Inyección : Direct  
Alternator: Sincrono trifase, autoeccitato, autoregolato, senza spazzole  
Fuel tank capacity (L): 230  
Consumption (L/h): 24.7 at 75% of the load  
Running time (h): 9.3 at 75% of the load  
Acoustic power: 94 dB(A)  
Acoustic pressure: 69 dB(A) at 7 m  
Length (mm): 3400  
Width (mm): 1200  
Height (mm): 1800  
Dry weight (Kg): 2230  
Silenced: Yes  
Super silenced: Yes  
Product type: Generator  
ATS Switch device : Optional  
Voltage regulator: AVR  
Engine manufacturer: Perkins