



MOSA GE 165 PSX

Reference: CH0J30E2E STD /

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 cm³ (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 m³/min.
Total oil capacity: 16.5 l
Sump oil capacity: 12.4 l (min) - 14.9 l (max)
Full load oil consumption: < 0.04 l/h
Maximum exhaust gas flow rate: 25.53 m³/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 m³/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 I_n
Transient Cdt (100% of load): < 20 %
Response time: < 0.3 sec
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: < 2 %
Telephone Interference - THF: < 2 %
Direct Synchronous - X_d: 280 %
Direct Transitory - X'_d: 24 %
Direct Subtransitory - X''_d: 13.5 %
Synchronous in quad. - X_q: 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 - T_a: 0.012 sec
Kcc short-circuit ratio: 0.47
Cooling air flow rate: 0.42 m³/sec.
Coupling I Bearings: Direct SAE 3 - 11 1/2 - No. 1

GENERAL SPECIFICATIONS

Tank capacity: 230 lt.
Run time (75% of PRP): 9.5 h
Measured acoustic power L_{wA}: 94 dB(A) (69 dB(A) @ 7m)
Guaranteed acoustic power L_{wA}: 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.

Technical Sheet

| 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 |
| 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 ³) | 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 ATS |
| Voltage regulator | AVR |
| Engine manufacturer | Perkins |