



GENERATING SET GE 12000 HZDT

The images are for reference



FEATURES

- Low oil pressure automatic engine shut down and high temperature
- A recessed panel protects the sockets
- Protective frame
- Automatic voltage regulation "AVR"
- Circuit breaker
- ELCB-GFI (Ground Fault Interruptor)
- Meets EC directives



air cooled



diesel



three-phase



electric start

POWER RATINGS

| | |
|------------------------------------|----------------------------------|
| * Stand-By three-phase power (LTP) | 12 kVA (9.6 kW) / 400 V / 17.3 A |
| * PRP three-phase power | 11 kVA (8.8 kW) / 400 V / 15.8 A |
| * PRP single-phase power | 6 kVA/kW / 230 V / 26 A |
| Frequency | 50 Hz |
| Cos φ | 0.8 |

* Output powers according to ISO 8528-1

DEFINITION

Valid declared powers up to the followings environmental conditions: temperature 25°C, altitude 100 meters above sea level)

LTP power: stand-by power: Maximum available power for use with variable loads for a yearly number of hours limited at 500 h. No overload is admitted.

PRP power: continue power with variable loads. Maximum power for use with variable loads for a yearly illimited nubers of hours.

COP power: continuous power with constant load. Maximum power for use with constant loads for a yearly unlimited numbers of hours.

ENGINE 3000 RPM

4-STROKE, DIRECT INJECTION

| | |
|--|---------------------------|
| Model | HATZ 1D90 |
| * Stand-By net power | 11.2 kWm (15.2 hp) |
| * PRP net power | 10.2 kWm (13.9 hp) |
| * COP net power | / |
| Cylinders / Displacement | 1 / 722 cm ³ |
| Bore / Stroke | 104 / 85 (mm) |
| Compression ratio | 10.5 : 1 |
| BMEP (Brake Mean Effective Pressure : LTP - PRP) | / |
| Speed governor type | Meccanico |
| FUEL CONSUMPTION | |
| 110 % (Stand-by power) | 3.6 lt./h |
| 100 % to PRP | 3.3 lt./h |
| 75 % to PRP | 2.5 lt./h |
| 50 % to PRP | 1.6 lt./h |
| COOLING SYSTEM | |
| Total system cap. - only engine | / |
| Fan air flow | 10.6 m ³ /min. |
| LUBRICATION SYSTEM | |
| Total oil system capacity | / |
| Oil capacity in sump | 1.9 lt. |
| Oil consumption at full load | < 0.028 kg./h |

EXHAUST SYSTEM

| | |
|-----------------------------------|---------------------------|
| Maximum exhaust gas flow | / |
| Max. exhaust gas temp. | / |
| Maximum back pressure | / |
| External diameter exhaust pipe | / |
| ELECTRICAL SYSTEM | |
| Starter motor power | 2 kW |
| Battery charging alternator cap. | 16 A |
| Cold start | / |
| With cold start aid | - 10°C |
| AIR FILTER | |
| Combustion air flow | 1.08 m ³ /min. |
| HEAT REJECTED AT FULL LOAD | |
| To exhaust system | / |
| To water and oil | / |
| Radiated to room | / |
| To charge cooler | / |

ALTERNATOR

| SYNCHRONOUS, THREE-PHASE, SELF-EXCITED, SELF-REGULATED, BRUSHLESS | | |
|---|---------------------------|-------------------------|
| | WITH AVR | WITHOUT AVR |
| Continuous power | 11.5 kVA | |
| Stand-by power | 12.5 kVA | |
| Three phase voltage | 380-415 Vac | 400 Vac |
| Frequency | 50 Hz | |
| Cos φ | 0.8 | |
| Model A.V.R. | HVR 10 | / |
| Voltage regulation acc. | ± 1 % | ± 4 % |
| Sustained short circuit current | ≤ 3 In | |
| Transient dip (100% load) | < 15 % | |
| Recovery time | / | |
| Efficiency at 100% load | 83.5 % (400V - Cos φ 0,8) | 83 % (400V - Cos φ 0,8) |
| Insulation | Classe H | |
| Connection - Terminals | Stella - N°6 | |
| Electromagnetic compatibility (R.F.I. suppr.) | / | |
| Waveform distortion - THD | < 4 % | < 5 % |
| Telephone interference - THF | / | |

| REACTANCES (11.5 KVA - 400 V) | | |
|----------------------------------|---------------------|--------|
| Direct axis synchronous - Xd | 239 % | 280 % |
| Direct axis transient - X'd | 19 % | 21 % |
| Subdirect axis transient - X''d | 4.6 % | 5,8 % |
| Quadrature axis synchronous - Xq | 130 % | 155 % |
| Quadr. axis subtransient - X''q | / | |
| Negative sequence - X2 | / | |
| Zero sequence - X0 | / | |
| TIME CONSTANTS | | |
| Transient - T'd | 46 ms | 40 ms |
| Subtransient - T''d | 6 ms | 6 ms |
| Open circuit - T'do | 580 ms | 530 ms |
| Armature - Ta | / | |
| Short-circuit ratio Kcc | 0.72 | 0.62 |
| IP protection degree | IP 23 | |
| Cooling air flow | 0.082 m³/sec. | |
| Coupling Bearing | Diretto J609b - N°1 | |

GENERAL SPECIFICATIONS

| | |
|---------------------------|-----------------------------|
| Fuel tank capacity | 18 lt. |
| Running time (75% to PRP) | 7.2 h |
| Starter battery | 12 Vdc -37Ah / 330A CCA(EN) |
| IP protection degree | IP 23 |

| | |
|-----------------------------------|---------------------------|
| Acoustic power LwA (pressure LpA) | 105 dB(A) (80 dB(A) @ 7m) |
| Performance class (ISO 8528) | G2 |

CONTROL PANEL

- Start and stop engine key
- Low oil pressure warning light with shutdown
- High engine temperature warning light with shutdown
- Battery charge warning light fault
- Digital multifunction meter: Voltmeter - Frequncymeter - Total Hoursmeter - Partial Hoursmeter (resettable)
- Circuit breaker
- ELCB-GFI (Ground Fault Interruptor)
- Output sockets : 1x 400V 32A 3P+N+T CEE
2x 230V 16A 2P+T CEE
- Output sockets (schuko version): 1x 400V 32A 3P+N+T CEE
2x 230V 16A 2P+T Schuko
- Earth terminal (PE)



WEIGHT - DIMENSIONS AND ACCESSORIES

GE 12000 HZDT



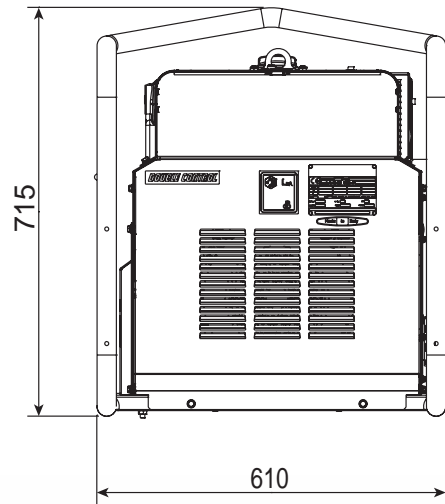
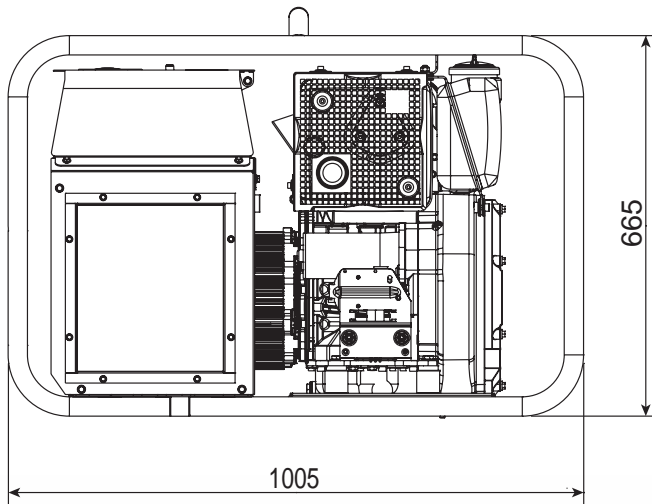
DRY WEIGHT MACHINE:

- 220 Kg

Generating set pictured may include optional accessories.



DIMENSIONS DRAW (mm)



OPTIONS ON REQUEST

- Earthing
- Trolley CTM 14



VERSIONS ON REQUEST

- SCHUKO Version



FACTORY INSTALLATION OPTIONS

- /

GENERAL INFORMATION

COMPLIANCE GENERATING SETS WITH EC DIRECTIVES AND STANDARDS

- 2006/42 / EC (Machines Directive)
- 2014/35 / EU (Low Voltage Directive)
- 2014/30 / EU (EMC Directive)
- 2000/14 / EC (Directive Acoustic Emission for machines for use outdoors)
- ISO 8528 (Reciprocating internal combustion engine driven alternating current generating sets)



ISO 9001:2015 - Cert. 0192

WARRANTY

All devices are covered by the manufacturer's warranty.

The company reserves the right to change this specification without notice. For further information please contact the sales department.

© MOSA - Viale Europa, 59 - 20090 Cusago (Milano) - Italy - phone +39-0290352.1 - fax + 39-0290390466 E-mail: info@mosa.it Web site: www.mosa.it

