

# GENERATING SET GE 12054 HZDT

The images are for reference



## CARATTERISTICHE

- Low oil pressure automatic engine shut down and high temperature
- A recessed panel protects the sockets
- Protective frame
- IP54 brushless alternator
- Automatic voltage regulation "AVR"
- Isometer
- Circuit breaker
- Meets EC directives



air cooled



petrol



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 <sup>3</sup>
Bore / Stroke	104 / 85 (mm)
Compression ratio	10.5 : 1
BMEP (Brake Mean Effective Pressure : LTP - PRP)	/
Speed governor type	Mechanical
<b>FUEL CONSUMPTION</b>	
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
<b>COOLING SYSTEM</b>	
Total system cap. - only engine	/
Fan air flow	/
<b>LUBRICATION SYSTEM</b>	
Total oil system capacity	/
Oil capacity in sump	1.9 lt.
Oil consumption at full load	< 0.028 kg./h

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



## ALTERNATOR

SYNCHRONOUS, THREE-PHASE, SELF-EXCITED, SELF-REGULATED, BRUSHLESS	
Continuous power	13 kVA
Stand-by power	14.5 kVA
Three phase voltage	400-415 Vac
Frequency	50 Hz
X <sub>0σ</sub>	0.8
Model A.V.R.	Analogic
Voltage regulation acc.	± 1 %
Sustained short circuit current	3 I <sub>n</sub>
Transient dip (100% load)	< 25 %
Recovery time	< 0.5 sec.
Efficiency at 100% load	/
Insulation	Class F/H
Connection - Terminals	Star - N°4
Electromagnetic compatibility (R.F.I. suppr.)	EN 61000-6-2 EN 61000-6-3
Waveform distortion - THD	< 5 %
Telephone interference - THF	/

REACTANCES (13 KVA - 400 V)	
Direct axis synchronous - X <sub>d</sub>	/
Direct axis transient - X' <sub>d</sub>	/
Subdirect axis transient - X'' <sub>d</sub>	/
Quadrature axis synchronous - X <sub>q</sub>	/
Quadr. axis subtransient - X'' <sub>q</sub>	/
Negative sequence - X <sub>2</sub>	/
Zero sequence - X <sub>0</sub>	/
TIME CONSTANTS	
Transient - T' <sub>d</sub>	/
Subtransient - T'' <sub>d</sub>	/
Open circuit - T' <sub>do</sub>	/
Armature - T <sub>a</sub>	/
Short-circuit ratio K <sub>cc</sub>	/
IP protection degree	IP 54
Cooling air flow	/
Coupling   Bearing	Direct - N°1

## GENERAL SPECIFICATIONS

Fuel tank capacity	10 lt.
Running time (75% to PRP)	4 h
Starter battery	12 Vdc -37Ah
IP protection degree	IP 54

Acoustic power L <sub>WA</sub> (pressure L <sub>pA</sub> )	105 dB(A) (80 dB(A) @ 7m)
Performance class (ISO 8528)	G2

## CONTROL PANEL

- Start and stop engine key
- Low oil pressure shutdown
- High engine temp. shutdown
- Battery charge warning light fault
- Hourmeter
- Voltmeter
- Main circuit breaker
- Circuit breaker (three-phase output)
- Insometer
- Thermal circuit breakers for 230V Schuko sockets :2x 16A
- Output sockets : 1x400V 16A 3P+N+T CEE IP67  
2x230V 16A 2P+T Schuko

# WEIGHT - DIMENSIONS AND ACCESSORIES

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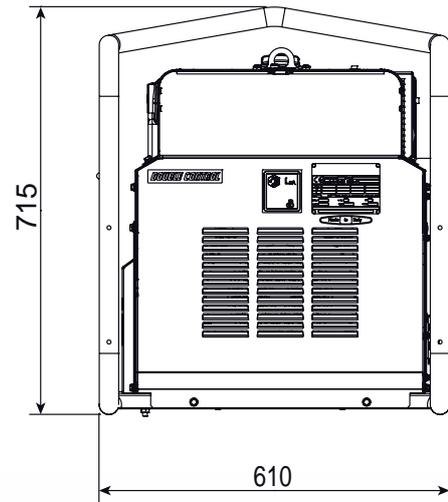
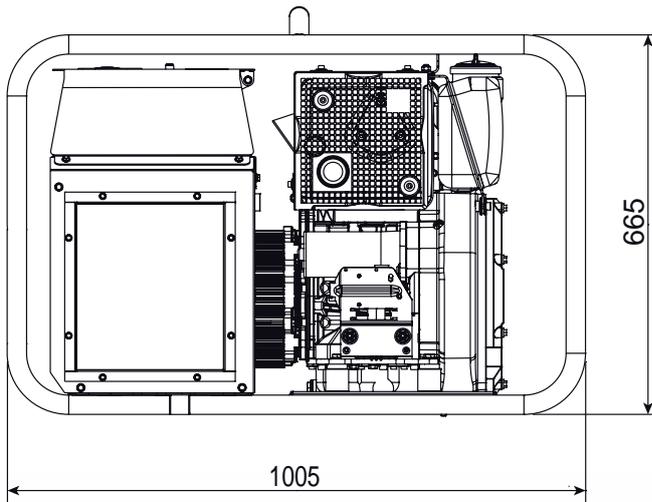
### DRY WEIGHT MACHINE:

- 226 Kg

Generating set pictured may include optional accessories.



### DIMENSIONS DRAW (mm)



### OPTIONS ON REQUEST

- Earthing
- Trolley CTM 14



### VERSIONS ON REQUEST

- Sockets: 1x400V 32A 3P+N+T CEE  
1x400V 16A 3P+N+T CEE  
1x230V 16A 2P+T Schuko
- According to the DGVU-1203-032 regulation



### 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.

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