

WELDING GENERATOR

GM 5-200 HBM

The images are for reference

WELDING PROCESS



Shielded Metal Arc welding SMAW (STICK)



FEATURES

- Arc welding source in D.C. welding
- A.C. generator, single-phase
- Protective frame with central lifting eye
- Engine shut down for low oil level (oil alert)
- Thermal protection for welding circuit
- Thermal protection for generator sockets
- Differential protection (on request)
- Compliant with EC / EU Directives

DEFINITIONS

SMAW: Coated electrode welding is an arc welding with protected metal.

GMAW: welding is an arc process with metal under gas protection.

FCAW (FLUX CORED): The process with cored wires is very similar to MIG / MAG welding. Continuous wire is not full but consists in a metal strip that wraps a powders core (flow).

GTAW: is a welding process that uses a tungsten electrode that cannot melt.



air
cooled



diesel



manual
recoil

ENGINE 3000 RPM

4-TEMPI, OHV	
Model	HONDA - GX 390
* Stand-by net power	8.2 kWm (11.1 hp)
* PRP net power	6.4 kWm (8.7 hp)
* COP net power	/
Cylinder / Displacement	1 / 389 cm ³ (0.39 lt.)
Bore / Stroke	88 / 64 (mm)
Compression ratio	8.2 : 1
BMEP (Brake Mean Effective Pressure : LTP - PRP)	/
Speed governor type	Mechanical
FUEL CONSUMPTION	
110 % (Stand-by power)	3.5 lt./h
100 % of PRP	3.2 lt./h
75 % of PRP	2.4 lt./h
50 % of PRP	1.6 lt./h
25% of PRP	/
COOLING SYSTEM	
Total system cap. - only engine	/
Fan air flow	

* Potenze dichiarate in accordo a ISO 3046-1

LUBRIFICATION SYSTEM	/
Total oil system capacity	1.1 lt.
Oil capacity in sump	/
Oil consumption at full load	
EXHAUST SYSTEM	/
Maximum exhaust gas flow	/
Max. exhaust gas temp.	/
Maximum back pressure	/
External diameter exhaust pipe	/
ELECTRICAL SYSTEM	/
Starter motor power	/
Battery charging alternator cap.	/
Cold start	/
AIR FILTER	Dry
Combustion air flow	/
HEAT REJECTED AT FULL LOAD	
To exhaust system	/
To water and oil	/
Radiated to room	/
To charge cooler	/

CHARACTERISTICS OF WELDING AND GENERATION

GM 5-200 HBM

C.C. WELDING

CONSTANT CURRENT	
Current range	40A / 21.6V ÷ 200A / 20V
Type of regulation	Step adjustment
Duty cycle	160A / 26.4V - 60% 120A / 24.8 - 100%
Open circuit voltage	85V
Arc force control	No

GENERAL SPECIFICATIONS

Fuel tank capacity	6.1 l	IP protection degree	IP 23
Fuel consumption (welding 60%)	2.1 l/h	*Measured acoustic power LwA (pressure LpA)	97 dB(A) (71 dB(A) @ 7 m)
Running time (welding 60%)	2.9 h	*Guaranteed acoustic power LwA (pressure LpA)	97 dB(A) (71 dB(A) @ 7 m)
Battery Starter	/	* Acoustic power according to European Directive 2000/14/EC	

A.C. GENERATION

ALTERNATOR SYNCHRONOUS SINGLE-PHASE, SELF-EXCITED, SELF-REGULATED

Insulation class	H
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AUXILIARY GENERATION

OUTPUT 1		OUTPUT 2	
Type of source	Single-phase	Type of source	Single-phase
Frequency	50 Hz	Frequency	50 Hz
Power kVA (Power kW) Max	5kVA (5kW)	Power kVA (Power kW) Max	2.5kVA (2.5kW)
Power kVA (Power kW) PRP	4kVA (4kW)	Power kVA (Power kW) PRP	2kVA (2kW)
Cos φ	1	Cos φ	1
Voltage	230V	Voltage	115V
Current Max	21.7A	Current Max	21.7A
Current PRP	17.4A	Current PRP	17.4A

The use of the auxiliary generation is recommended for welding tools (grinding wheels, electric hammers, lights, etc.)

CONTROL PANEL

- Manual recoil
- Engine switch ON- OFF
- Choke
- Range welding selector
- Welding current selector
- Welding sockets
- Thermal circuit breaker for 230V/16A sockets
- Output sockets: 1x 230V 16A 2P +T CEE
1x 230V 16A 2P+T SCHUKO
- Earth terminal (PE)

WEIGHT - DIMENSIONS ACCESSORIES

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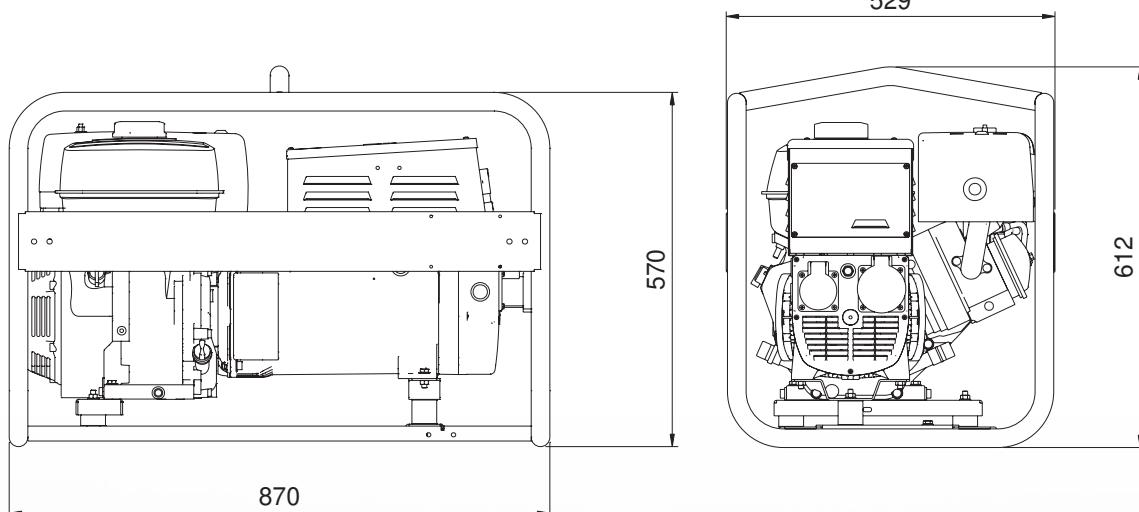
DRY WEIGHT:

- 97 Kg



DIMENSION PICTURE

The welding machine pictured may include optional accessories.


 OPTIONS ON REQUEST

- Welding kit (mask, gloves, etc.)
- Welding cables: K 200 (20+15m, 35mm²)
- Manual trolley CTM-GM-200
- Carrying Kit TRM-MW200D
- Remote control extension
- Earthing kit

 VERSION ON REQUEST

- 230V/115V version

 FACTORY INSTALLATION OPTIONS

- ELCB-GFI (Ground Fault Interruptor)

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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