

MAGIC WELD 250 is a light-weight 250-Amp DC Stick welder. It is the best in its class for duty cycle and weight. Built for everyday use as a welder or as a portable generator. It is paired with an outstanding Honda GX 390 four stroke engine for a powerful and steady arc. The engine features an auto idle feature to increase fuel efficiency and engine life. The entire unit's 157 lbs. (61 kg) weight and 220 A in 35% duty cycle, makes it a breeze to use out on site or around the farm. This welder is equipped with a "Power Optimizer" function, designed and patented by MOSA. This is a special feature aimed at preventing engine overload when working near its power limit.

FEATURES

- Arc welding source in D.C. welding
- High frequency control of welding current and voltage
- Single-Phase, 50Hz aux current, inverter generated
- Engine shut down for low oil level (oil alert)
- Hour counter
- Power optimiser (patent pending)
- Auto Idle
- Protective frame
- Portable
- Meets EC 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 powderscore (flow).

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



MAGIC WELD 250A Technical Specification

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D.C Welding (Constant Current)		
Welding Current Range	20-250 A	
Duty Cycle @ Maximum Welding Current in 104° F (40° C)	35% (220 A)	
Open Circuit Voltage : Volt	70 V	
Insulation Class	H	
General Specifications		
Fuel tank capacity	6.1 l	
Running time (welding 60%)	2.8 h	
IP protection degree	IP 23	
* Acoustic power LwA (pressure LpA)	99 dB(A) (74 dB(A) @ 7 m)	
Auxiliary Generation		
	STANDARD 230VDC	VOLTAGE 110 VDC
Type of source	Single-Phase	Single-Phase
Frequency	50 Hz - 60 Hz	50 Hz - 60 Hz
Power kVA (Power kW) Max	3.3 kVA (2.4 kW)	2.1 kVA
Cos φ	0.8	0.8
Voltage	230V ±1%	110V ±1%
Max current	14.3 A	19 A

Engine 3600 RPM (4 STROKE, OHV, NATURAL ASPIRATED)

Model	HONDA GX 390
* Stand-By net power	8.7 kWm (11.8 hp)
* PRP net power	7 kWm (9.5 hp)
Cylinders / Displacement	1 / 389 cm ³ (0.39 lt.)
Bore / Stroke	88 / 64 (mm)
Compression ratio	8.2: 1
Speed governor type	Mechanical
FUEL CONSUMPTION	
110 % (Stand-by power)	3.85 lt./h
100 % to PRP	3.5 lt./h
75 % to PRP	2.7 lt./h
50 % to PRP	1.8 lt./h
LUBRICATION SYSTEM	
Oil capacity in sump	1.1 lt.

Control Panel

- Manual recoil
- Motor switch ON-OFF
- Air control
- Hour counter
- Welding current adjustment knob
- Soldering sockets
- Auxiliary generation overload LED
- Output sockets: 1x 230V 16A 2P+T CEE
1x 110V 15A 2P+T NEMA 5 - 15R (option vers.110)

