

# Maxstar® 161 S

**Stick Welding  
Power Source** 

## Quick Specs

### Light Industrial Applications

Maintenance repair  
Shipboard installation/repair  
Farm/ranch  
Hobbyist

### Process

Stick (SMAW)

### Input Power

120–240 V, 1-phase power

**Amperage Range** 120 V: 20–90 A (DC)  
240 V: 20–160 A (DC)

**Max. Open-Circuit Voltage** 48

**Net Weight** 13 lb. (5.9 kg)



Allows for any input voltage hookup (120–240 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

**Portable** in the shop or at the jobsite — at 13 pounds, the handle/shoulder strap allows the end user to easily move from location to location.

**Fan-On-Demand™** power source cooling system operates only when needed, reducing noise, energy use and the amount of contaminants pulled through the machine.

**Thermal overload protection** helps prevent machine damage if the duty cycle is exceeded or airflow is blocked.

**Digital meter** for more precise control when presetting or monitoring welding amperage.



**Single amperage range** allows operator to accurately set amperage on both 120- or 240-volt primary power.

**Hot Start™** adaptive control provides positive arc starts without sticking.

**Low OCV stick** is a simple design that reduces the open-circuit voltage to 12–16 volts when the welding power source is not in use. This circuit design is now built into the Maxstar 161 S eliminating the need for add-on voltage reducers.

**Power factor corrected (PFC)** for optimum performance especially on 120 volts — reduces nuisance breaker tripping.

**Stick-Stuck** detects if the electrode is stuck to the part and turns the welding output off to safely and easily remove the electrode. Menu selectable.

**Superior stick arc performance** even on the difficult-to-run electrodes like E6010.

### Maxstar® 161 S with X-CASE™ (907709001) comes complete with:

- Maxstar 161 S (stick only) power source
- 6.5 ft. (2 m) 120-volt and 240-volt power cords
- X-CASE™ — provides protection in transport and storage
- Stick electrode holder with 13 ft. (4 m) cable and 25 mm Dinse-style connector
- Work clamp with 10 ft. (3 m) cable and 25 mm Dinse-style connector
- Handle/shoulder strap



Power source is warranted for three years, parts and labor.  
Original main power rectifiers are warranted for five years.



**Miller Electric Mfg. Co.**  
An ITW Welding Company  
1635 West Spencer Street  
P.O. Box 1079  
Appleton, WI 54912-1079 USA

**Equipment Sales US and Canada**  
Phone: 866-931-9730  
FAX: 800-637-2315  
International Phone: 920-735-4554  
International FAX: 920-735-4125

**MillerWelds.com**



# Specifications (Subject to change without notice.)

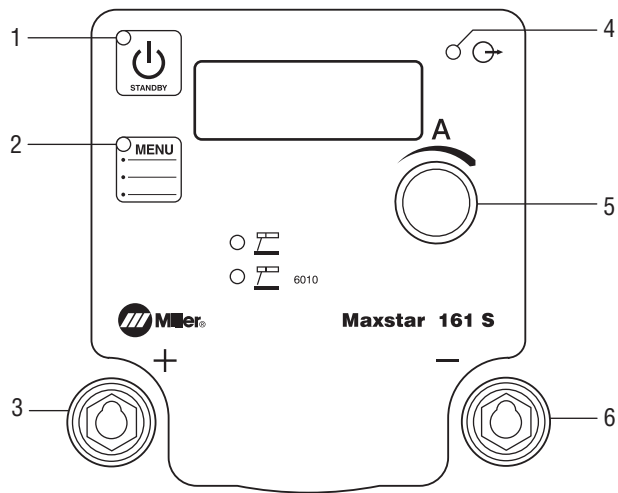


Input Power	Welding Amperage Range	Rated Output	Amps Input at Rated Output, 50/60 Hz	KVA at Duty Cycle	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
120 V, 20 A	20–90 A	60 A at 22.4 VDC, 100% duty cycle	14.68	1.75	1.71	48 VDC (12–16 VDC*)	H: 10.3 in. (262 mm) W: 5.6 in. (142 mm) D: 13.5 in. (343 mm)	13 lb. (5.9 kg)
		90 A at 23.6 VDC, 30% duty cycle	23.16	2.78	2.76			
240 V	20–160 A	110 A at 24.4 VDC, 100% duty cycle	14.31	3.43	3.30			
		160 A at 26.4 VDC, 20% duty cycle	22.55	5.41	5.25			

\*Sense voltage for stick.

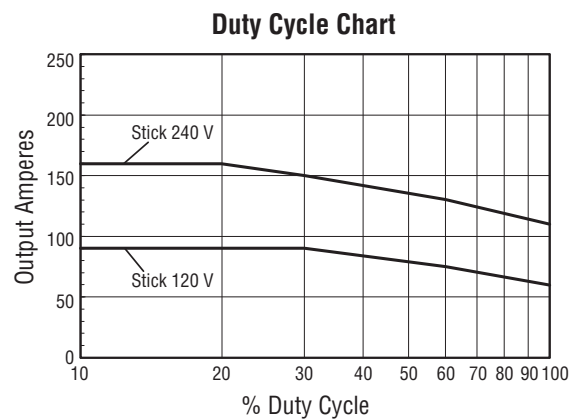
Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

## Control Panel



1. Power Switch
2. Menu Button
3. Positive Weld Output Receptacle
4. Ready Light
5. Amperage Adjustment Control
6. Negative Weld Output Receptacle

## Performance Data



## Ordering Information

Power Source and Options	Stock No.	Description	Qty.	Price
Maxstar® 161 S (only)	907709	Includes electrode holder, work clamp, and 120-volt and 240-volt power cords		
Maxstar® 161 S with X-CASE™	907709001	Includes 907709 plus X-CASE™		
<b>Accessories</b>				
X-CASE™ (only)	301429	Carrying case for Maxstar 161		

Date: Total Quoted Price:

Distributed by:

