Maxstar® 161 S

**Quick Specs**

<table>
<thead>
<tr>
<th>Light Industrial Applications</th>
<th>Process</th>
<th>Amperage Range</th>
<th>Max. Open-Circuit Voltage</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maintenance repair</td>
<td>Stick (SMAW)</td>
<td>120 V: 20–90 A (DC)</td>
<td>48</td>
<td>13 lb. (5.9 kg)</td>
</tr>
<tr>
<td>Shipboard installation/repair</td>
<td>Input Power</td>
<td>240 V: 20–160 A (DC)</td>
<td>120–240 V, 1-phase power</td>
<td></td>
</tr>
<tr>
<td>Farm/ranch</td>
<td></td>
<td></td>
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<tr>
<td>Hobbyist</td>
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</tbody>
</table>

**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)

**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.

**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.

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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
- Handle/shoulder strap

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**Power source is warranted for three years, parts and labor. Original main power rectifiers are warranted for five years.**
Specifications (Subject to change without notice.)

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

*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

Duty Cycle Chart

- Stick 240 V
- Stick 120 V

Ordering Information

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

Date: Total Quoted Price:

Distributed by: