ArcMaster® 200 ACDC comes with:
• Power cord
• 2 ea dinse 50mm plugs

Excellent Performance!
Embedded microprocessor with digital controls, delivering perfectly smooth, stable arc characteristics for E6010 Cellulose and low hydrogen electrodes.

Smart Logic® & Easy Link!
Prevents damage to the internal components if installed to improper voltage. Multi voltage 208-230/460 1 or 3 phase providing maximum flexibility.

Thermal Overload Protection!
Alerts the operator if the duty cycle is exceeded or airflow is blocked.

Easy to use!
Simple, user friendly set-up and operation.

Twist Lock Output Terminals!
Allow for easy polarity changing and cable connection.

Remote Receptacle Fitted!
Allows remote devices to be connected for controlling amperage and output contactor.

Standards Compliant Integrated VRD!
Voltage Reduction Device reduces the OCV when the power supply is not in use. This all but eliminates the risk of electric shock to the operator from the secondary welding circuit.

Job Save & Load!
Allows operator to store up to 5 exact optimized welding parameters then digitally recall them with perfect repeatability.

Smart Warning Diagnostics!
Alerts operator to power supply abnormalities.

Lift Start TIG!
Provides TIG arc starting without use of high frequency.

Hot Start!
For easy arc starts when STICK welding.

HF Arc Starting!
Provides non-contact arc starting that eliminates tungsten or material contamination.

True square wave output!
Highly developed balance and cleaning features deliver an unbeatable welding performance with extended tungsten life on aluminum and magnesium alloys without the need for continuous high frequency.

AC Frequency!
Gives the operator control over weld bead shape.

AC Balance!
Allows you to fine tune the AC welding cycle.

Rapid pulse output!
Provides precision control over pulse on/off, pulse frequency, peak % time, background and peak amperage, initial and final slope times, and amperage.

Intelligent heat sensing fan!
Operates as needed to cool components & reduce airborne contaminants pulled through the power source.

Tough, Compact, Lightweight . . . and Versatile

Quick Specifications

Processes
STICK (SMAW)
TIG (GTAW) Lift, HF & Pulse

Industrial Applications
Fabrication
Aerospace
Food/Beverage
Contractors
Installation/Repair
Dairy Industry

Input Voltage
208-230/460 VAC 1/3 Phase

Rated Output @ Duty Cycle
200A@18V@20% TIG
160A@26V@40% STICK

Output Range
5-200A DC Mode TIG
10-200A AC Mode TIG
(60Hz cleaning 50%)
5-160A DC Mode STICK
10-160A AC Mode STICK
(60Hz cleaning 50%)

Weight
37.5 lb (17 kg)

Order Information
Part No: 10-3083
Description: ArcMaster 200 ACDC

*Limited warranty. Refer to warranty schedule.
**Features**

- Inbuilt ‘Smart Logic’ prevents damage from connection to incorrect voltage.
- Integrated VRD.
- Simple to use operator interface
- Digital Display includes Volt/amp meter, parameter setting, thermal overload protection & Warning circuitry indicator.
- Process switch: STICK, Lift-Start & HF Start TIG functions
- 8 pin remote receptacle.
- Twist lock 50mm dinse output terminal.

Complete TIG pulse functions.

#Subject to change without notification.
Part No. 10-3083A-1
Package comes with:
• ArcMaster 200ACDC power source
• Power cord
• 2 x dinse 50mm plugs
• 12.5ft 150 amp air cooled TIG torch with accessory kit
• work clamp with 15ft cable
• stick electrode holder with 15ft cable (not shown)
• Argon regulator
• 12ft gas hose & foot control with 15ft cable

Part No. 10-3083A-2
Package comes with:
• ArcMaster 200ACDC power source
• Power cord
• 2 x dinse 50mm plugs
• 12.5ft 150 amp air cooled TIG torch with built-in on/off switch
• work clamp with 15ft cable
• Argon regulator and gas hose

Ideal for TIG SLOPE function

#Subject to change without notification.
Specifications

ArcMaster 200 ACDC

- **Input voltage**: 208-230/460 VAC 1/3 phase
- **Input frequency**: 50/60 Hz
- **Rated output**:
  - @ duty cycle: 200A/18V@20% TIG, 160A/26V@40% STICK
- **OCV**: 65
- **Output range**:
  - 5-200A DC Mode TIG
  - 10-200A AC Mode TIG (60Hz cleaning 50%)
  - 5-160A DC Mode STICK
  - 10-160A AC Mode STICK
- **Lift mode short current**: 25A
- **Approvals**: CSA (pending); IP23S IEC 60974-1 (CE)
- **Primary cable length**: 10ft

Dimensions & Weight

- **Dimensions**: HxWxD 14.2 x 7.1 x 16.5 in (360 x 180 x 420 mm)
- **Weight**: 37.5 lb (17 kg)

Input Voltage (VAC)

<table>
<thead>
<tr>
<th>Duty Cycle</th>
<th>Output Amps</th>
<th>OCV</th>
<th>Output Voltage</th>
<th>No. phase</th>
<th>208 Input Amps</th>
<th>230 Input Amps</th>
<th>460 Input Amps</th>
<th>kVA</th>
<th>kw</th>
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<tbody>
<tr>
<td>Output TIG</td>
<td>20%</td>
<td>200</td>
<td>65</td>
<td>18</td>
<td>3</td>
<td>17</td>
<td>16</td>
<td>8</td>
<td>6.0</td>
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<tr>
<td>Output STICK</td>
<td>40%</td>
<td>160</td>
<td>65</td>
<td>26</td>
<td>3</td>
<td>20</td>
<td>19</td>
<td>10</td>
<td>7.2</td>
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<tr>
<td>No Load</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>3</td>
<td>1.4</td>
<td>1.3</td>
<td>0.7</td>
<td>0.5</td>
<td>0.3</td>
</tr>
<tr>
<td>Output TIG</td>
<td>20%</td>
<td>200</td>
<td>65</td>
<td>18</td>
<td>1</td>
<td>37</td>
<td>33</td>
<td>–</td>
<td>7.5</td>
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<tr>
<td>Output STICK</td>
<td>40%</td>
<td>160</td>
<td>65</td>
<td>27</td>
<td>1</td>
<td>44</td>
<td>40</td>
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<td>9.0</td>
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<tr>
<td>No Load</td>
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<td>–</td>
<td>–</td>
<td>1</td>
<td>2.5</td>
<td>2.2</td>
<td>–</td>
<td>0.5</td>
<td>0.3</td>
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</tbody>
</table>

Output Characteristics

STICK PROCESS

LIFT TIG PROCESS

HF TIG PROCESS

#Subject to change without notification.
1. VRD - (Voltage Reduction Device) lights indicate on or off.

2. Pulse Function - Pressing this button enables the TIG current pulse functions.

3. Scroll buttons – used to select the parameter to be set. The LED’s show which function is being adjusted on the weld sequence graph.

4. TIG Mode Functions - Pressing this button scrolls through the output TIG function modes (Standard, Slope, Slope w/repeat, Spot).

5. Digital LED display – welding amperage and parameter values are displayed in this window. Internal warnings such as over temperature, low or high input voltage applied are signaled to the operator by a warning sound and error message on the screen.

6. Save/Load Buttons - By using the Save & Load buttons the operator can easily save up to 5 welding parameter programs.

7. Control knob – allows the operator to adjust the output amperage within the entire range of the power source, also used to set each parameter value.

8. AC/DC Button - Selects between AC or DC welding output.

9. Process functions – pressing this button scrolls through the output process modes (Stick, Lift & HF Start TIG).

10. Remote current function - pressing this button enables remote current.

11. Remote contactor function - pressing this button enables remote contactor on or off.

Effect of Wave Balance Adjustment on AC/GTAW-Complete Welding Control

The 200ACDC AC output uses advanced embedded micro processor technology. This control of the wave form changes the amount of time spent on DCEP (cleaning) and DCEN (penetration) parts of each cycle, increasing arc stability. The DCEP cycle insures that the aluminum oxide is thoroughly removed, allowing the DCEN cycle a thorough penetration of the base metal. Both cycles enhance weld quality and significantly improve performance.

When a conventional system changes its wave balance, there can be as much as a 50% increase in amperage draw. Thermal Arc 200ACDC amperage draw is unaffected by any adjustments. The 200ACDC increases efficiency and eliminates tungsten splitting and enables the use of a smaller diameter tungsten electrodes to operate at a higher current levels. Figures 1 & 2 show the difference in TIG torch electrode and heat and cleaning variations.

ArcMaster - The Leader in Technology and Service!
Options & Accessories

Stick Kit
Part No. 90925A
Work clamp with 15’ cable and stick electrode holder with 15’ cable.

TIG Kit
Part No. W4009105 150A Torch with built-in rotary amperage control
Part No. W4009103 200A Torch with built-in On/Off switch
Includes regulator/flowgauge. Accessory kit including 1 ea of 0.040”x7”, 1/16”x7” & 3/32”x7” 2% Tungsten with collet & collet bodies, 1 ea 1/4”, 5/16”, 3/8” alumina cup.

Dinse Connector
Part No. 10-2020
T-50mm dinse style male plug.

Hand Held Pendant
Part No. 10-4014
Includes contactor On/Off switch & current control with 25ft cable and 8-pin male plug.

Foot Control
Part No. 10-4015 15ft
Part No. 10-4016 25ft
Contactor On/Off & current control with cable & 8-pin.

Torch Switch On/Off
Part No. 10-4006 15ft
Part No. 10-4007 25ft
Torch mounted with 8-pin male plug.

Torch Switch On/Off w/current control
Part No. 10-4008 15ft for CK9 Handle
Part No. 10-4009 15ft for CK17 Handle
Part No. 10-4010 15ft for CK26 Handle
Part No. 10-4011 25ft for CK9 Handle
Part No. 10-4012 25ft for CK17 Handle
Part No. 10-4013 25ft for CK26 Handle
Torch mounted with 8-pin male plug.

Torch Mounted Rotary Control
Part No. 600296 Rotary amperage control 5k
15’ velcro for TD8
Part No. 600297 Rotary amperage control 5k 25’ velcro for TD8

Extension Cable
Part No. 10-4017 3ft
Part No. 10-4018 15ft
Part No. 10-4019 25ft
Part No. 10-4020 50ft
Part No. 10-4021 75ft
With 8-pin male plug and 8-pin female cable receptacle.

#Subject to change without notification.
EasyFind Guide - build your own package

Ordering Information
• ArcMaster 200 ACDC Power Source 10-3083

ArcMaster 200 ACDC is capable of
• GTAW (Gas Tungsten Arc Welding)
• SMAW (Shielded Metal Arc Welding)

Shielded Metal Arc Welding

Gas Tungsten Arc Welding

<table>
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<tr>
<th>Description</th>
<th>Part No.</th>
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<tbody>
<tr>
<td>Electrode Work Lead Kit</td>
<td>90925A</td>
</tr>
<tr>
<td>Remote Control Device</td>
<td>10-4014</td>
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</table>

For detailed accessory descriptions see ordering information

#Subject to change without notification.
### PRODUCT PART NO. DESCRIPTION

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ArcMaster® 200 ACDC</td>
<td>10-3083</td>
<td>Power supply only: includes 200 ACDC with power cord and 2 each dinse 50mm plugs</td>
</tr>
<tr>
<td>10-3083A-1</td>
<td></td>
<td>Includes 200 ACDC with power cord, 12.5’ 200 Amp air cooled TIG torch with accessory kit, work clamp with 15’ cable, stick electrode holder with 15’ cable Argon regulator with 12’ gas hose &amp; foot control</td>
</tr>
<tr>
<td>10-3083A-2</td>
<td></td>
<td>Includes 200 ACDC with power cord, 12.5’ 200 Amp air cooled TIG torch with built-in on/off switch, work clamp with 15’ cable, Argon regulator (ideal for TIG SLOPE Function)</td>
</tr>
</tbody>
</table>

### ACCESSORIES

<table>
<thead>
<tr>
<th>ACCESSORIES</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stick Kit</td>
<td>90925A</td>
<td>Work clamp with 15’ #2 cable, and stick electrode with 15’ #2 cable</td>
</tr>
<tr>
<td>TIG Kit</td>
<td>W4009105</td>
<td>Includes regulator/flowgauge, 12.5’ 150 Amp TIG torch &amp; built-in rotary amperage control. Accessory kit includes 1 ea of 0.040”x7”, 1/16”x7”, 3/32”x7” 2% Tungsten with collet &amp; collet bodies, 1 ea 1/4”, 5/16”, 3/8” aluminia cup, 15’ cable with clamp &amp; T50 dinse plug</td>
</tr>
<tr>
<td></td>
<td>W4009103</td>
<td>Includes regulator/flowgauge, 13’ 200 Amp TIG torch &amp; built-in On/Off switch. Accessory kit includes 1 ea of 0.040”x7”, 1/16”x7”, 3/32”x7” Tungsten with collet &amp; collet bodies, 1 ea 1/4”, 5/16”, 3/8” aluminia cup, 15’ cable with clamp &amp; T50 dinse plug</td>
</tr>
<tr>
<td>Dinse Connector</td>
<td>10-2020</td>
<td>T50mm Dinse style male plug</td>
</tr>
<tr>
<td>Adaptor</td>
<td>10-4003</td>
<td>8-pin male to 14-pin female (6”)</td>
</tr>
<tr>
<td>Hand Held Pendant</td>
<td>10-4014</td>
<td>Includes contactor On/Off switch and current control with 25ft cable and 8-pin male plug</td>
</tr>
<tr>
<td>Foot Control</td>
<td>10-4015</td>
<td>Contactor On/Off and current control with 15ft cable and 8-pin male plug</td>
</tr>
<tr>
<td></td>
<td>10-4016</td>
<td>Contactor On/Off and current control with 25ft cable and 8-pin male plug</td>
</tr>
<tr>
<td>Extension Cable</td>
<td>10-4017</td>
<td>3ft with 8-pin male plug and 8-pin female cable receptacle</td>
</tr>
<tr>
<td></td>
<td>10-4018</td>
<td>15ft with 8-pin male plug and 8-pin female cable receptacle</td>
</tr>
<tr>
<td></td>
<td>10-4019</td>
<td>25ft with 8-pin male plug and 8-pin female cable receptacle</td>
</tr>
<tr>
<td></td>
<td>10-4020</td>
<td>50ft with 8-pin male plug and 8-pin female cable receptacle</td>
</tr>
<tr>
<td></td>
<td>10-4021</td>
<td>75ft with 8-pin male plug and 8-pin female cable receptacle</td>
</tr>
<tr>
<td>Torch Switch On/Off</td>
<td>10-4006</td>
<td>15ft torch mounted with 8-pin male plug</td>
</tr>
<tr>
<td></td>
<td>10-4007</td>
<td>25ft torch mounted with 8-pin male plug</td>
</tr>
<tr>
<td>Torch Switch On/Off w/current control</td>
<td>10-4008</td>
<td>15ft torch mounted with 8-pin male plug - adapts to CK9 torch handle</td>
</tr>
<tr>
<td></td>
<td>10-4009</td>
<td>15ft torch mounted with 8-pin male plug - adapts to CK17 torch handle</td>
</tr>
<tr>
<td></td>
<td>10-4010</td>
<td>15ft torch mounted with 8-pin male plug - adapts to CK26 torch handle</td>
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<td>10-4011</td>
<td>25ft torch mounted with 8-pin male plug - adapts to CK9 torch handle</td>
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<tr>
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<td>10-4013</td>
<td>25ft torch mounted with 8-pin male plug - adapts to CK26 torch handle</td>
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<tr>
<td></td>
<td>600296</td>
<td>Rotary amperage control 5k 15’ velcro for TD8</td>
</tr>
<tr>
<td></td>
<td>600297</td>
<td>Rotary amperage control 5k 25’ velcro for TD8</td>
</tr>
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</table>

### TOTAL QUOTE PRICE