

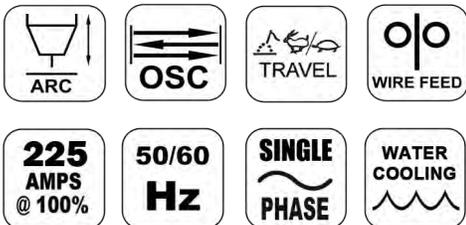
**MODEL 227****THE INDUSTRY'S MOST RELIABLE AND VERSATILE  
PORTABLE PIPE WELDING POWER SUPPLY****AMI**  
**ARC MACHINES, INC.®***The widest range of orbital welding equipment in the world*

The Model 227 is a 100/225 A pre-programmed/programmable, inverter-type, GTAW welding power supply and controller designed for (but not limited to) automatic orbital welding applications that require the addition of filler material.

Welds produced by this machine, together with AMI's weld heads, meet or exceed the specifications required by industries as diverse as: food/dairy/beverage, pharmaceutical, power generation, petrochemical, nuclear, shipbuilding, pulp and paper, etc. Its small size and powerful output makes it excel in field applications where portability is required.

**FEATURES**

- Internal memory for up to 100 multi-level, multi-function weld schedules.
- 8 multi-level functions for total process control.
- Programmable, continuous or pulsed current, rotation, wire feed, oscillation and AVC, up to 100 levels per pass.
- Dust/moisture-proof soft-touch membrane switches.
- Standard software prompts in multiple languages.
- Built-in, high-speed printer.
- Key-switch to limit operator access.
- Remote operator pendant.

**QUICK SPECS****Input Power**

100 - 240 VAC, +/- 10%  
Single phase, 50/60 Hz.

**Overrides**

0% - 100% programmable

**Weight**

88 lbs.  
(37 kg)

**Weld Current**

3 - 100 A DC @ 100/120 VAC input,  
100% Duty Cycle  
3 - 225 A DC @ 200/240 VAC input,  
100% Duty Cycle

**Current Accuracy**

+/- 1% or 0.5 A,  
whichever is greater

**Dimensions**

15" x 23" x 20"  
(381 mm x 584 mm x 508 mm)

**Travel/Rotation Speed**

Range depends on weld head type,  
typically 0.5 - 10 RPM or 0.1 - 20 IPM

**Wire Feed Speed**

Range depends on weld head size,  
Typically 0 - 200 IPM

**Water Cooler**

Optional

*Note: Maximum programmable pulsed current level is 225 A.*

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# MODEL 227 PORTABLE PIPE WELDING POWER SUPPLY

With the Model 227 Power Supply, high-integrity, code-quality welds are easily reproduced at the touch of a button. The program library stores up to 100 weld schedules and titles each schedule with a block of information including, pipe or fitting OD, wall thickness, material type and weld type such as tube, pipe, fitting, etc. The optional External Memory Module may be used to store additional weld schedules or to transfer data from one machine to another. Welding quality control is enhanced by programmable override limits. This allows the operator to have control over the welding parameters without exceeding the allowable limits of the welding procedure.

In operation, both the Power Supply and Remote Operator's Pendant allow the operator to modify weld schedules. The remote pendant can also be used for accessing alternate weld schedules remotely. Weld schedules may be written as single-pass or multi-pass and electrode rotation may be continuous or incremental (stepped). Total arc control is made possible through eight multi-level functions. Each of these functions may be programmed to change values up to 100 times (levels) during the weld.

The Model 227 is very easy to operate and is designed with the welder in mind. All operator entries are made in actual values and do not require codes.



## ACCESSORIES

1. Heads up display with arc shield.
2. EMM Memory Module.
3. Weld head extension cables.
4. Reusable shipping case.
5. Water cooling unit.
6. Pendant extension cables (not shown).
7. Offline programming (not shown).

1.



2.



3.



4.



5.



water cooler

## COMPATIBLE AMI WELD HEADS

- Fusion weld heads without filler wire: Model 96, Model 8 series, Model 9 series.
- Pipe weld heads with filler wire: Model 81, Model 15, and Model 6.
- Open-frame weld heads with or without filler wire: Model 79 series, and Model 95 series.

*Leaders & Innovators in  
Automated Orbital Welding*

*For further information please visit our website*



**AMI**  
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