Full Digital Dip-Pulse Arc Welding Power Supply

**Superior Technology**

Third generation, industry-proven HM Dip-Pulse™ technology delivers superior welding performance across a variety of materials and metal thicknesses—a welding platform to build your shop around.

The HM3-350 offers wider process windows, virtually instantaneous, repeatable arc starting and more precise arc control via 32bit processing.

A 4-wheel 2-drive feeder with encoder feedback allows consistent and stable wire feeding with fast ramp up and down capabilities; thereby, enabling fast arc starts/ends & maximum welding performance.

The new operator interface supports both manual or dedicated automation applications with an easy-to-use interface.

Direct digital connection to Panasonic’s G2 series arc welding robots provides plug and play capability and unlimited wave form control directly from the robot teach pendant.

Regardless of manual, dedicated automation or robotic applications, the HM3-350 exceeds expectations with superior technology for welding productivity, quality and flexibility.

**Features and Benefits**

**Flexibility** — 3 interactive adaptive pulse control methods to accommodate various applications, operator preferences and changes in stick-out.

**Productivity** — A 2 step high current arc start routine utilizing patented impulse starting technology <capacitor discharge at wire touch> ensures a positive arc initiation. Two arc start modes, CV or Pulse, provide consistent arc starting while minimizing spatter generation.

**Quality** — Automatic waveform correction, wire feed speed and other pertinent adjustments are standard. In the event of welding over a tack or changes in operator’s stick-out, the unit automatically clears the short without spatter. That means cleaner welds with higher travel speeds, higher deposition rates, reduced smoke and less heat input.

**Simplicity** — Easy-to-use manual welding control pendant features include: real-time graphical controller, convenient multi-schedule function, fast installation/set-up time and alarm indication of feed load fluctuation.
Panasonic HM3 Robotic Welding System

Digitally coupled to a Panasonic Arc Welding Robot eliminates the interface box typical on conventional systems. The welder is automatically recognized by the robot. Fine waveform adjustment can be performed through the robot teach pendant — allowing fine adjustment for exotic or difficult welding applications.

Manual Welding

Machine Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Input Voltage</td>
<td>230/460V AC ± 10%, 3-phase, 60Hz</td>
</tr>
<tr>
<td>Rated Input</td>
<td>20kVA (18kW)</td>
</tr>
<tr>
<td>Output Current</td>
<td>30–350A</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>12–36V</td>
</tr>
<tr>
<td>Rated Duty Cycle</td>
<td>60%</td>
</tr>
<tr>
<td>Applicable Wire Diameter</td>
<td>.030&quot;, .035&quot;, .040&quot;, .045&quot;</td>
</tr>
<tr>
<td>Dimensions</td>
<td>15.0&quot; x 20.9&quot; x 27.2&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>169 lbs (77kg)</td>
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</tbody>
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Dedicated Automation

Welding Power Source: YD-350HM3YLD
Wire Feeder: YW-35DF1
Control Pendant: YD-00DFS1
Wire Feeder Drive Roll Size (Std): .035"/.045"
Wire Feed Type: 2 Driven-2 Idle

Safety Precaution: Before attempting to use any welding product, always read the manual to ensure correct use.

Optional Cables

- Control Pendant Extension Cable 3 meter (118.1") YV-003DE1A
- Feeder Control Cable Extension 5 meter (196.85") YV-605GB2A
- Feeder Control Cable Extension 15 meter (590.51") YV-615GB2A
- Feeder Control Cable Extension 20 meter (787.40") YV-620GB2A

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