OM Series Power Supplies

DIGITAL ORBITAL WELDING POWER SUPPLIES

THE OM180 SMARTWELDER AND OM 165CA ARE DURABLE, JOBSITE PROVEN, COMPACT DIGITAL CONTROLLED POWER SUPPLIES FOR ORBITAL WELDING. OFFERING A UNIQUE OPERATING CONCEPT WITH ADVANCED TECHNICAL FEATURES, THE OM SERIES IS THE MOST INNOVATIVE AND ECONOMICAL ORBITAL WELDING SYSTEM ON THE MARKET.

- Industry standard OM 165CA (Compact Advanced)
- New state-of-the-art OM180 SmartWelder
- Fab or field, proven rugged construction
- Intel WP approved for fab/clean room construction
- Simplified programming, removing the need for manual calculations
- Flow Force feature significantly shortens pre/post purge while increasing weld purge quality
- Auto program gives option to multiple weld schedule types with maximum simplicity
- Multiple operator input points offers simplicity and redundancy
- Wide input voltage variation, 90V to 260V, no dedicated power required
- Full data logging of all welding parameters, electronic or print
- High efficiency internal water cooling system
- Dual weld data printing function (onboard and external)
- Operate or program modes with redundant key or electronic actuation
- Password or key protection to select operation or program modes
- ORBmax oxygen monitor and Orbitwin switching unit integral accessories
Orbital Welding

WELD HEADS

- OW 12
- OW 19
- OW 38S
- OW 76S
- OW 115S
- OW 170

POWER SUPPLIES

- OM180 SmartWelder
  Orbital Welding Power Supply
- OM 165CA
  Orbital Welding Power Supply

ACCESSORIES

- Orbitalum-to-AMI Conversion Cable Set
  Connects to customer owned Arc Machines (AMI) Weld Head
- ORBmax Digital Oxygen Analyzer
- Orbicar S Welding Cart
- Orbitwin Multihead Switch

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ORBITAL WELDING POWER SUPPLIES

BUILT AS A DURABLE, "JOBSITE" RUGGED ORBITAL WELDING SYSTEM FOR THE FUTURE, THE OM180 SMARTWELDER IS A DIGITALLY CONTROLLED POWER SUPPLY THAT MOVES THE ORBITAL WELDING INDUSTRY FORWARD THROUGH INFORMATION, CONNECTIVITY AND COMMUNICATION TECHNOLOGY.

- Rugged construction for fab or field applications
- Intel WP approved for fab/clean room construction
- High resolution touch screen for increased operation simplicity
- Digital purge gas flow control and monitoring
- Flow Force significantly shortens pre/post purge, and increases weld purge quality
- Auto program gives option to multiple weld schedule types with maximum simplicity
- Network connectivity by IoT/Industry 4.0 technology
- Wide input voltage variation, 90V to 260V, no dedicated power required
- 100% data recording of all welding parameters, electronic or print
- High efficiency internal water cooling system
- ORBmax oxygen monitor and Orbitwin switching unit integral accessories
- Dual weld data printing function (onboard and external)
- Password to select operation or program modes
Orbital Welding

OM18O
SmartWelder

RELIABILITY
NEVER LOST DATA
SECURE INTERNAL DATA STORAGE
• 100% Data Recovery via Internally Stored Weld Records
• Continuous Data Recording
• Eliminates Lost or Incomplete Weld Data
• QC Review at Unit or Remotely Via Connected PC

QUALITY
DIGITAL PURGE CONTROL PRECISE WELD HEAD FLOW REGULATION
• Cleaner Welds with Minimal Gas
• Fully Digitally Recordable
• Repeatable Results
• Improves Weld Quality
• Saves Money
• Saves Gas

PRODUCTIVITY
FLOW FORCE REDUCES TOTAL CYCLE TIME AND INCREASES ARC ON TIME
• Delivers More Welds Per Shift
• Ensures Better Gas Coverage
• Increases Productivity
• Lowers Weld Head Temperatures
• Reduces Gas Consumption

SAFETY
MOTOR TORQUE CONTROL SENSES ROTATION OBSTRUCTION PREVENTS DAMAGE FROM DEBRIS
• Helps Prevent Weld Head Damage
• Minimizes Risk of Operator Injury
• Reduces Downtime
• Increases Service Life of Weld Head
OM180 SmartWelder Power Supply

**Features:**
- 12.4in high resolution swivel monitor touch screen (GUI) for system navigation and operation
- Classic rotary control knob for secondary navigation and operation
- 90V to 260V input range for flawless operation at jobsites with extreme voltage fluctuation
- “Flow Force” purge gas control feature significantly reduces the gas pre- and post-purge flow time
- Purge gas flow settings are digitally controlled and function adjustable
- On-board memory of 5,000+ welding programs with simplified “folders/programs” management
- Auto recognition of operating weld head and parameter limits
- Weld data logging and printout of actual values
- (4) USB ports
- HDMI connection allowing large flat screen monitor
- Network connectivity via LAN, Bluetooth, and Wi-Fi connections
- Integrated and external system printer capabilities
- Integrated high efficiency water cooling system
- Digital monitoring of coolant and arc purge gas flow
- Extremely stable operating system requires no power-down sequence
- Program from 1 to 99 levels
- Navigation in 20+ languages
- Inch and Metric units

**Scope of delivery:**
- OM180 SmartWelder orbital welding power supply
- Argon gas supply hose connection set
- Operating instructions with calibration certificate
- Quick Start guide
- 120V Input power cable

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>OM180 SmartWelder</th>
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<tbody>
<tr>
<td>Connection voltage</td>
<td>110 - 230 V, 50/60 Hz, single phase</td>
</tr>
<tr>
<td>Control range</td>
<td>5 - 180 A</td>
</tr>
<tr>
<td>Power-on time</td>
<td>60% at 180 A</td>
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<tr>
<td></td>
<td>100% at 160 A</td>
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<tr>
<td>Dimensions</td>
<td>23.6in x 15.7in x 12.2in (600 x 400 x 310 mm)</td>
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<tr>
<td>Machine Weight</td>
<td>57.32 lb (26 kg)</td>
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<tr>
<td>Shipping Weight</td>
<td>90.39 lb (41 kg)</td>
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<tr>
<td>Code</td>
<td>0TB50.000.001</td>
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**Accessories (available option):**
- ORBICAR S trolley
- Durable storage and shipping case
- ORBITWIN switching device
- ORBmax digital oxygen analyzer
- Pressure regulator