

OM Series Power Supplies

ORBIMAT

RENTAL
AVAILABILITY



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

OM180 SmartWelder

**RENTAL
AVAILABILITY**



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.

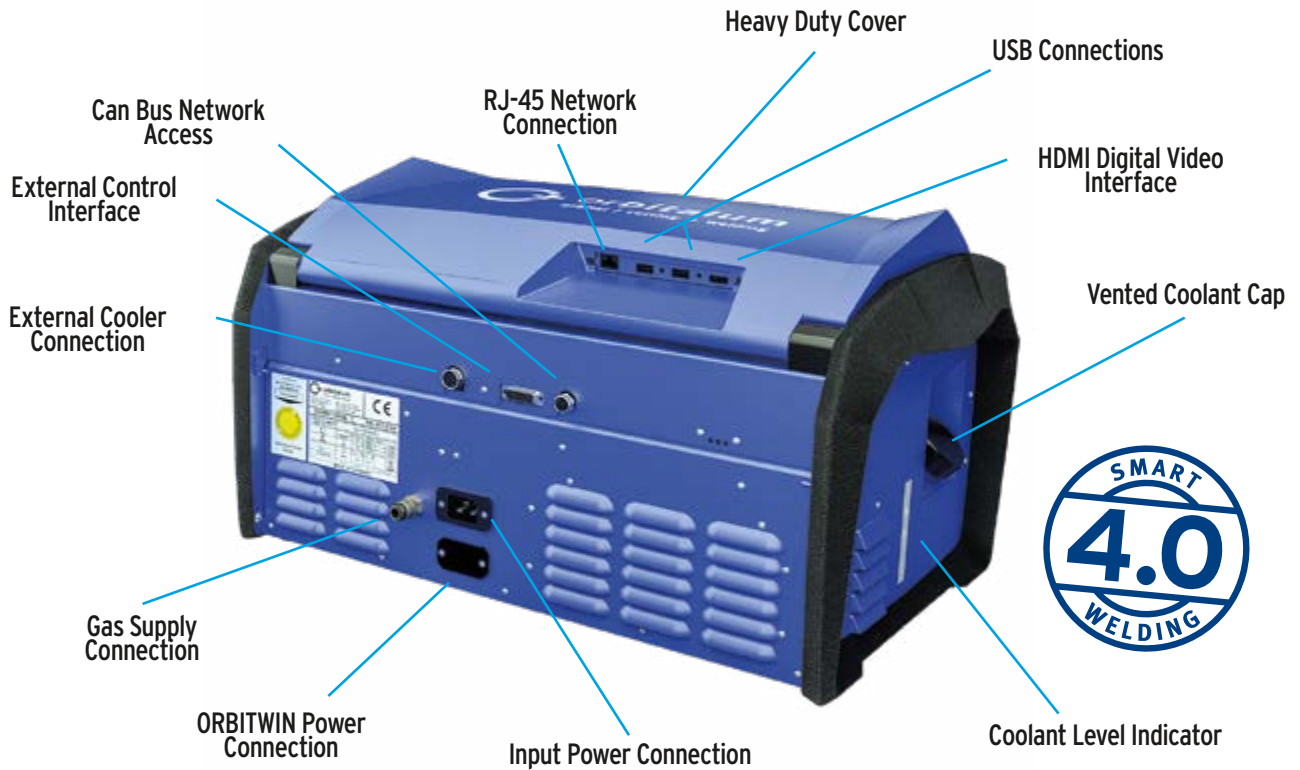


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- Rugged construction for fab or field applications
- Intel WP approved for fab/clean room construction
- High resolution touch screen for increased operation simplicity
- Digital purge gas flow control and monitoring
- Flow Force significantly shortens 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

OM180

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	OM 180 SMARTWELDER
Connection voltage	110 - 230 V, 50/60 Hz, single phase
Control range (Connection voltage > 160 V)	5 - 180 A
Power-on time	60% at 180 A 100% at 160 A
Dimensions	23.6in x 15.7in x 12.2in (600 x 400 x 310 mm)
Machine Weight	57.32 lb (26 kg)
Shipping Weight	90.39 lb (41 kg)
Code	0T850.000.001

Accessories (available option):

- ORBICAR S trolley
- Durable storage and shipping case
- ORBITWIN switching device
- ORBmax digital oxygen analyzer
- Pressure regulator



OM180 SmartWelder



IP23 Rated housing with newer style connections and lifting handles



OM180 SmartWelder offers network connectivity



ORBmax Digital Oxygen Analyzer for superior weld quality