

POWER SUPPLIES

Microprocessor-controlled ultrasonic generators

Sonics' power supplies come in 2 versions, the *SmartControl* (MSC) Series with full color touch screen controls and the MX Series, with standard keypad operation. Power levels range from 400 to 6000 watts for actuators in the 40, 20 and 15 kHz frequencies. The features of the models are compared below.



SmartControl MSC Low Profile Power Supply with touch screen controls



MSC High Profile



MX Series Low Profile



MX Series High Profile

SmartControl MODELS

MSC *SmartControl* with Time, Energy and Height-Based Weld Modes

WSC *SmartControl* with Time, Energy and Height and Width-Based Weld Modes for Wire Splice Systems

Keypad MODELS

MXC Remote Impulse Actuation

MXT Time Based Weld Mode

MXE Time and Energy Based Weld Modes

POWER LEVELS

- **40 kHz:** 400 & 800 Watts Peak Power
- **20 kHz:** 1500, 2500 & 4000 Watts Peak Power
- **15 kHz:** 3000 & 6000 Watts Peak

POWER SUPPLY FEATURES	MXC	MXT/ MXE	MSC
Microprocessor Controlled	■	■	■
Automatic Frequency Tuning	■	■	■
Digital Amplitude Control	■	■	■
Digital Force Triggering		■	■
Weld Time Delay Setting		■	■
Afterburst Time Setting		■	■
Multiple Job Storage		■	■
Digital Stack Wattage Display	■	■	■
Digital Stack Frequency Display	■	■	■
Weld Cycle Counter	■	■	■
Upper and Lower Weld Mode Limit Settings		■	■
Soft Start Overload Protection Circuitry	■	■	■
Load Regulation Circuitry	■	■	■

POWER SUPPLY FEATURES	MXC	MXT/ MXE	MSC
Color Touch Panel Operator Screen			■
Weld Cycle Graph Chart Screen			■
Weld Teach Mode			■
Weld Sequence Mode			■
Amplitude and Pressure Ramping			■
Timed Converter and Horn Air Cooling Cycle			■
English and Metric Weld-to-Height Settings			■
Password Protected Four-Level User Access			■
Serial Printer Port Connection		■	
PLC I/O Interface Connection	■	■	■
PC Interface Connection			■
Bar Code Scanner Connection			■