

# UltraHEAT W

5-15kW/10kHz-400kHz

## EFFICIENT POWER FOR HEATING SOLUTIONS



### BENEFITS OF INDUCTION HEATING

- Improved energy efficiency
- Higher degree of controllability
- Increased repeatability
- Low maintenance requirements
- Increased productivity

Advanced, cost effective power supplies utilizing the latest switching power supply technology

Adaptive digital phase control providing very efficient operation in a wide frequency range

Reliable, modular system, easy to maintain and service

Flexible, wide range load impedance matching by utilizing multiple transformer ratios and configurable tank capacitance

Configured to operate with external Heat Stations allowing output connections to be available from all sides

Durable design, loaded with safety and diagnostics features

Serial Communication link to a PC based software (optional)

### SPECIFICATIONS

Brazing, Shrink fitting, Annealing, Soldering, Carbide Tipping, Curing, Catheter tipping, Forging, Bonding, Heating, Material Testing, Plastic Reflow, Susceptor Heating, Nanoparticle Research



[ultraflexpower.com](http://ultraflexpower.com)



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### FEATURES

- Output regulation – Voltage, Power, Current
- Limits Setting – Current, DC Volts, Output Volts, Power, Frequency
- Operator controls – Selectable: Automatic, Remote or Local control
- Capable of operating in a wide frequency range (10kHz-400kHz); low and high Q factors
- Variable ratio output isolation transformer for load matching of a wide range of loads and coils
- RS232/485 interface for remote computer monitoring, control and diagnostics
- Power control from 1 to 100% in 1% increments  
5 Programs with 9 programmable parameters
- 0-10V or 4-20mA external control and remote Start/Stop operation

### Optional Equipment

	Description
Custom Coil	Custom Coil designed and manufactured for customer's application
Water Cooling System	<b>Water Cooling System</b> specified per customer's requirements
FS-01	<b>Foot Switch Assembly</b>
RCP-01	<b>Remote Control Panel with 10 ft cable</b>
RCP-03	<b>External E-stop box with 6 ft leads</b>
ACC-01	<b>Output Coil Adapter</b>
ACC-02	<b>Output Adapter Blocks</b> with 1-4 NPTF
ACC-03	<b>Output Adaptor Blocks</b> with o-rings
HSB-50	<b>Heat Station Switch Box (50A)</b> For use with HS-8 and HS-8LF
Temp System	<b>Temperature Monitoring and Control Systems</b> Specified per customer's requirements
CAB-WCL-900-XX	<b>Flexible water cooled leads,</b> from 3 – 15 ft

### SPECIFICATIONS

#### Power Supply Model

	W5/400	W10/150	W10E/150	W15/150	W15/100
<b>Output kW</b>	5	10	10	15	15
<b>Frequency kHz</b>	40-400	50-150	50-150	50-150	20-100
<b>AC Line Volts (50/60Hz)</b>	230±10%	230±10%	380/480±10%	380/480±10%	380/480±10%
<b>Line Phases</b>	3	3	3	3	3
<b>Weight Lb (kg)</b>	62 (28)	62 (28)	84 (38)	84 (38)	84 (38)
<b>Dimensions</b> Inch (cm) WxDxH	16.9" x 21.2" x 15.6" (42.9 x 53.9 x 39.5)	16.9" x 21.2" x 15.6" (42.9 x 53.9 x 39.5)	15.8" x 21" x 14.8" (40.1 x 53.3 x 40.1)	15.8" x 21" x 14.8" (40.1 x 53.3 x 40.1)	15.8" x 21" x 15.8" (40.1 x 53.3 x 40.1)
<b>Compatible Heat Stations</b>	HS-8	HS-8, HS-15W with UBraze	HS-8, HS-15W with UBraze	HS-8, HS-15W with UBraze	HS-8LF

#### Heat Station Model

	HS-8 (standard)	HS-8LF (low freq opt)	HS-15W with UBraze Handheld and Automation System
<b>Cable Length between Power Supply and Heat Station:Std / Max Ft (cm)</b>	6 (182)/ 20 (609)	6 (182)/ 20 (609)	10 (305) / 15 (457)
<b>Dimensions</b> Inch (cm) WxDxH	15.4" x 14.4" x 9.8" (39 x 41 x 25.6)	12.6" x 18.6" x 10.2" (32 x 47.2 x 26)	See UBraze Handheld and Automation system for details
<b>Weight Lb (kg)</b>	44 (20)	44 (20)	See UBraze Handheld and Automation system for details
<b>Cooling requirements</b> water system quoted upon request	water (external)	water (external)	water (external)
<b>Min Cooling Water GpM (LpM)</b>	2 (8)	2 (8)	2 (8)
<b>Inlet Water T° (max)</b>	95°F (35°C)	95°F (35°C)	95°F (35°C)