

# UltraHeat S Series

4-5kW/50-250kHz

Induction Technology Solutions

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## 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)

## APPLICATIONS

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Brazing, Shrink Fitting, Annealing, Soldering, Carbide Tipping, Curing, Catheter Tipping, Getter Firing, Bonding, Heating, Material Testing, Plastic Reflow, Susceptor Heating, Nanoparticle Research and more...

# UltraHeat S Series

4-5kW/50-250kHz

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## FEATURES

- Output regulation: Voltage, Power, Current
- Limits Setting: Current, DC Volts, Output Volts, Power, Frequency
- Compact air cooled power supply design with automatic fan control
- Operator controls – Selectable: Automatic, Remote or Local
- Capable of delivering full power in the 50-250kHz frequency range
- 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
IB-01	Interface box for RS 232 Serial Communication
FS-01	Foot Switch Assembly
WCU-2000	Compact Water Cooling Unit 2kW/hr
ACC-02	Output Adapters Set with Water Bypass

## SPECIFICATION

### Power Supply Model

	UPT-S4	UPT-S5	UPT-S5-3
<b>Output Power, kW</b>	4.0	5.0	5.0
<b>Frequency, kHz</b>	50-250	50-250	50-250
<b>AC Line, Volts (50/60Hz)</b>	230 ±10%	230 ±10%	230 ±10%
<b>Line Phases</b>	1	1	3
<b>Weight, Lb (kg)</b>	43 (19.5)	43 (19.5)	43 (19.5)
<b>Dimensions, Inch (cm) LxWxH</b>	14.2 x 14.2 x 11.8 (36 x 36 x 30)	14.2 x 14.2 x 12.2 (36 x 36 x 31)	15.4 x 17.3 x 12.6 (39 x 44 x 32)
<b>Compatible Heat Stations</b>	HS-4, HS-8	HS-4, HS-8	HS-4, HS-8

### Heat Station Model

	HS-4	HS-8
<b>Dimensions, Inch (cm) WxDxH</b>	10.2 x 7 x 6.3 (26 x 18 x 16)	14.2 x 14.2 x 9.8 (36 x 36 x 25)
<b>Weight, Lb (kg)</b>	8.8 (4)	37.5 (17)
<b>Min. Cooling Water, GpM (LpM)</b>	0.5 (2)	2 (8)
<b>Inlet Water T° (max), °F (°C)</b>	95°F (35°C)	95°F (35°C)