

UltraHeat Mini Series

2kW/20-250kHz

Induction Technology 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 remote Heat Stations

Durable design, loaded with safety and diagnostics features

Serial Communication link to a PC based software (optional)

APPLICATIONS

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

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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 20-250kHz 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-S2	UPT-S2/100
Output Power, kW	2kW when operating at 230V 1kW when operating at 110V	2kW when operating at 230V 1kW when operating at 110V
Frequency, kHz	50-250	20-100
AC Line, Volts (50/60Hz)	230±10% (2kW Max Output Power) 110±10% (1kW Max Output Power)	
Line Phases	1	1
Weight, Lb (kg)	13.2 (6)	13.2 (6)
Dimensions, Inch (cm) LxWxH	9.5 x 7 x 11 (24 x 18 x 28)	9.5 x 7 x 11 (24 x 18 x 28)
Compatible Heat Stations	HS-4 (std), HS-4A	HS-4A

Heat Station Model

	HS-4 Water-cooled	HS-4A Air-cooled
Dimensions, Inch (cm) WxDxH	10.2 x 7 x 6.3 (26 x 18 x 16)	11.8 x 7 x 6.7 (30 x 18 x 17)
Weight, Lb (kg)	8.8 (4)	13.2 (6)
Min. Cooling Water, GpM (LpM)	0.5 (2)	n/a
Inlet Water T° (max), °F (°C)	95°F (35°C)	n/a