

# ULTRAHEAT S SERIES

1-2kW/30-350kHz

## EFFICIENT POWER FOR INDUCTION HEATING



Compact, economical 2kW induction heating systems.

Operate with water-cooled or air-cooled remote heat station.

Advanced, versatile induction heating unit 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.

Automatic frequency scanning and easy tuning to variety of loads and coils.

Durable design, loaded with safety and diagnostics features.

### STANDARD 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 specified frequency range (see Specifications tables)
- Variable ratio output isolation transformer for load matching of a wide range of loads and coils
- Power control from 1% to 100% in 1% increments
- Multiple user programs and programmable parameters

### ADVANCED OPTIONS

- Advanced 5" Color LCD touch panel
- Digital I/O Interface board – Remote Start/Stop
- External power control input: 0-10V or 4-20mA
- Temperature monitoring & control with K type thermocouple
- Temperature regulator for standard IR sensor input
- Serial Interface: RS-232 or RS-485
- Data logging and remote diagnostics

### APPLICATIONS

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

### HEADQUARTERS

158-2 Remington Blvd  
Ronkonkoma, New York 11779  
Tel: 631.467.6814  
sales@ultraflexpower.com



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## Power Supply Model

● Standard ○ Optional

Power Supply Model	SM-2/200	SH-2/350	SMT-2/200	SHT-2/400
Output kW	2.0kW at 230VAC, 1.0kW at 110VAC	2.0kW at 230VAC, 1.0kW at 110VAC	2.0kW at 230VAC, 1.0kW at 110VAC	2.0kW at 230VAC, 1.0kW at 110VAC
Frequency kHz	30-200	30-200	30-200	100-400
AC Line Volts (50/60Hz)	110/230±10%	110/230±10%	110/230±10%	110/230±10%
Line Phases	1	1	1	1
Compact air cooled power supply	●	●	●	●
Auto tuning to variety of loads and coils	●	●	●	●
Control panel	Standard	Standard	5" LCD Touch	5" LCD Touch
User programs	5	5	20	20
Digital I/O & Analog Power Control	○	○	●	●
Temperature control with K Thermocouple Input	-	-	●	●
Cycle Energy Monitor	-	-	●	●
Serial Interface: RS-232 or RS-485	-	-	○	○
Data logging	-	-	○	○
Weight Lb (kg)	11 (5)	11 (5)	11 (5)	11 (5)
Dimensions Inch (cm) WxDxH	9.8" x 8.5" x 9.3" (25 x 21.5 x 23.5)	9.8" x 8.5" x 9.3" (25 x 21.5 x 23.5)	9.8" x 8.5" x 9.3" (25 x 21.5 x 23.5)	9.8" x 8.5" x 9.3" (25 x 21.5 x 23.5)
Compatible Heat Station	HS-4W	HS-4W	HS-4W	HS-4W

## Heat Station Model

Heat Station Model	HS-4W water-cooled
Cable Length between Power Supply and Heat Station: Std / Max Ft (cm)	6 (183)/ 30 (914)
Dimensions Inch (cm) WxDxH	7.1" x 9.3" x 6.5" (18 x 23.6 x 16.5)
Weight Lb (kg)	8.7 (4)
Cooling requirements water system quoted upon request	water (external)
Min. Cooling Water, Gpm (LpM)	0.5 (2.0)
Inlet Water T° (max),F (°C)	95° (35°)

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