

# ULTRAHEAT SM

5kW/30-400kHz

## EFFICIENT POWER FOR INDUCTION HEATING



Compact 5kW induction heating system.

Operates with either water-cooled or air-cooled remote heat station.

Advanced, induction heating power supply utilizing the latest switching power technology.

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

Reliable, modular system, easy to maintain and service.

Flexible load impedance matching by utilizing multiple ratios matching transformer and configurable tank capacitors.

Easy tuning to a wide range 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 IR sensor and K type thermocouple
- Temperature regulator for standard IR sensor input
- Serial Interface: RS-485
- Data logging and remote diagnostics
- Automation Upgrade Kit - allows the power supply to be powered up remotely when used as part of an automated system

### APPLICATIONS

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

### HEADQUARTERS

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



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EFFICIENT POWER FOR  
INDUCTION HEATING

## Power Supply Model

● Standard ○ Optional

Power Supply Model	SM5/200*	SMT-5/200*	SMT-5/400
Output kW	5.0 kW	5.0 kW	5.0 kW
Frequency kHz	30-200	30-200	100-400
AC Line Volts (50/60Hz)	230±10%	230±10%	230±10%
Line Phases	1	1	1
Compact air cooled power supply	●	●	●
Auto tuning to variety of loads and coils	●	●	●
Control panel	Standard	5" LCD Touch	5" LCD Touch
User programs	5	10	10
Digital I/O & Analog Power Control	○	●	●
Temperature control with IR Sensor and K Thermocouple Input	-	○	○
Cycle Energy Monitor	-	○	○
Serial Interface: RS-485	-	○	○
Data logging	-	○	○
Automation Upgrade Kit	○	○	○
Weight Lb (kg)	28 (12.5)	28 (12.5)	28 (12.5)
Dimensions Inch (cm) WxDxH	14.4" x 10.6" x 12.8" (36.5 x 27 x 32.6)	14.4" x 10.6" x 12.8" (36.5 x 27 x 32.6)	14.4" x 10.6" x 12.8" (36.5 x 27 x 32.6)
Compatible Heat Station	HS-4W	HS-4W	SH-n5

\*SM5/200 works at maximum 4 kW output power at 16A single socket, 220V power source.

## Heat Station Model

Heat Station Model	HS-4W water-cooled	SH-n5 water-cooled
Cable Length between Power Supply and Heat Station: Std / Max Ft (cm)	6 (183)/ 30 (914)	6 (183)/ 30 (914)
Dimensions Inch (cm) WxDxH	7.1" x 9.3" x 6.5" (18 x 23.6 x 16.5)	7.1" x 9.3" x 6.5" (18 x 23.6 x 16.5)
Weight Lb (kg)	8.7 (4)	8.7 (4)
Cooling requirements water system quoted upon request	water (external)	water (external)
Min. Cooling Water, GpM (LpM)	0.5 (2.0)	0.5 (2.0)
Inlet Water T° (max), F (°C)	95° (35°)	95° (35°)

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