

ULTRAHEAT SM5

5kW/30-200kHz

EFFICIENT POWER FOR HEATING SOLUTIONS



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 50kHz – 200kHz frequency range
- Variable ratio output isolation transformer for load matching of a wide range of loads and coils
- Power control from 10 to 100% in 1% increments
5 programs with 9 programmable parameters

Compact, 5 kW induction heating system.
Low-power induction heating systems with water-cooled and air-cooled options.

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

Induction Heating with 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.

APPLICATIONS

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

HEADQUARTERS:

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SPECIFICATIONS

● Standard ○ Optional

Power Supply Model

	SM5/200*
Output kW	5.0 kW
Frequency kHz	30-200
AC Line Volts (50/60Hz)	230±10%
Line Phases	1
Compact air cooled power supply	●
Auto tuning to variety of loads and coils	●
Multiple user programs	●
Programmable parameters	●
Digital I/O Interface board – Remote Start/Stop	○
External power control input: 0-10V or 4-20mA	○
Temperature control with K Thermocouple Input	○
Serial Interface: RS-232 or RS-485	○
External/Remote Control Panel	○
Weight Lb (kg)	28(12.5)
Dimensions Inch (cm) WxDxH	14.4" x 10.6" x 12.8" (36.5 x 7 x 32.6)
Compatible Heat Stations	HS-4W, HS-4AN, HS-5W

*Air cooled heat station (HS-4AN) works at 4 kW power and 30-100 kHz frequency range

Heat Station Model

	HS-4AN air-cooled	HS-4W water-cooled	HS-5W water-cooled
Cable Length between Power Supply and Heat Station: Std / Max Ft (cm)	6 (183)/ 30 (9)14	6 (183)/ 30 (9)14	6 (183)/ 30 (9)14
Dimensions Inch (cm) WxDxH	7.2" x 14.2" x 7.1" (18.4 x 36.1 x 18)	7.3" x 12.2" x 6.3" (18.6 x 31.1 x 16)	7.3" x 12.2" x 6.3" (18.6 x 31.1 x 16)
Weight Lb (kg)	13.2 (6)	8.7 (4)	8.7 (4)
Cooling requirements water system quoted upon request	n/a	water (external)	water (external)
Min. Cooling Water, GpM (LpM)	n/a	0.5 (2.0)	0.5 (2.0)
Inlet Water T° (max),F (°C)	n/a	95°F (35°C)	95°F (35°C)



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