

ULTRAHEAT SM

5kW/30-200kHz

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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INDUCTION HEATING

Power Supply Model

● Standard ○ Optional

| Power Supply Model | SM5/200* | SMT-5/200* |
|---|---|---|
| Output kW | 5.0 kW | 5.0 kW |
| Frequency kHz | 30-200 | 30-200 |
| AC Line Volts (50/60Hz) | 230±10% | 230±10% |
| Line Phases | 1 | 1 |
| Compact air cooled power supply | ● | ● |
| Auto tuning to variety of loads and coils | ● | ● |
| Control panel | Standard | 5" LCD Touch |
| User programs | 5 | 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) |
| 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) |
| Compatible Heat Station | HS-4W | HS-4W |

*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 |
|---|--|
| 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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