

# UltraHeat N Series

30-50kW/10-150kHz

Induction Technology Solutions

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## 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 external Heat Stations, allowing output connections to be available from all sides

Durable design, loaded with safety and diagnostics features

Serial Communication link to a PC based software (optional)

## APPLICATIONS

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Brazing, Shrink Fitting, Annealing, Hardening, Melting of Metal, Curing, Forging, Bonding, Heating, Plastic Reflow, Susceptor Heating, Optical Fiber and more...

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## FEATURES

- Output regulation: Voltage, Power, Current
- Limits Setting: Current, DC Volts, Output Volts, Power, Frequency
- Operator controls – Selectable: Automatic, Remote or Local control
- Capable of delivering full power in the 10-150kHz 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
Custom Coil	<b>Custom Coil</b> designed and manufactured for customer's application
Water Cooling System	<b>Water Cooling System</b> specified per customer's requirements
FS-01	<b>Foot Switch Assembly</b>
RCP-01	<b>Remote Control Panel</b>
RCP-02	<b>Remote Control Box (Start/Stop)</b>
WA1	<b>1" Water Adaptor Fittings</b>
WA2	<b>NPT Female X BSPT Male Adapter 3/4"</b>
WA3	<b>Female X BSPT Male adapter</b>
WA4	<b>NPT Female X BSPT Male Adapter 1/4 pipe</b>
Temp System	<b>Temperature Monitoring and Control System</b> Specified per customer's requirements
HSB-100	<b>Heat Station Switch Unit (100A)</b>
CAB-WCL-900-XX	<b>Flexible water cooled leads,</b> from 3 – 15 ft

## SPECIFICATION

### Power Supply Model

	UPT-N30/50	UPT-N35-150	UPT-N40/50	UPT-N50/50
<b>Output Power, kW</b>	30	35	40	50
<b>Frequency, kHz</b>	10-50	50-150	10-50	10-50
<b>AC Line, Volts (50/60Hz)</b>	380/480 ±10%	380/480 ±10%	380/480 ±10%	380/480 ±10%
<b>Line Phases</b>	3	3	3	3
<b>Dimensions, Inch (cm) LxWxH</b>	25.6 x 19.7 x 51.2 (65 x 50 x 130)	25.6 x 19.7 x 51.2 (65 x 50 x 130)	25.6 x 19.7 x 51.2 (65 x 50 x 130)	25.6 x 19.7 x 51.2 (65 x 50 x 130)
<b>Compatible Heat Stations</b>	HS-50N	HS-50N	HS-50N	HS-50N

### Heat Station Model

	HS-50N
<b>Cable Length between Power Supply and Heat Station:</b> Std / Max Ft (cm)	10 (305) / 20 (610)
<b>Dimensions, Inch (cm) WxDxH</b>	13.2 x 18.5 x 12.8 (33.5 x 47 x 32.5)
<b>Min. Cooling Water, GpM (LpM)</b>	1.6 (6)
<b>Inlet Water T° (max), °F (°C)</b>	60 / 95°F
<b>Min water pressure PSI (Bar)</b>	45 (3)