

ULTRAHEAT M SERIES

25-35kW/10-150kHz

INDUCTION HEATING POWER SUPPLIES



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

Brazing, Shrink Fitting, Annealing, Hardening,
Melting of Metal, Curing, Forging, Bonding, Heating,
Plastic Reflow, Susceptor Heating, Optical fiber

HEADQUARTERS:

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



ultraflexpower.com



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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
- 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	Custom Coil designed and manufactured for customer's application
Water Cooling System	Water Cooling System specified per customer's requirements
FS-01	Foot Switch Assembly
RCP-01	Remote Control Panel
RCP-02	Remote Control Box (Start/Stop)
WA1	1" Water Adaptor Fittings
WA2	NPT Female X BSPT Male Adapter 3/4"
WA3	Female X BSPT Male adapter
WA4	NPT Female X BSPT Male Adapter 1/4 pipe size
Temp System	Temperature Monitoring and Control Systems Specified per customer's requirements
HSB-100	Heat Station Switch Unit (100A)
CAB-WCL-900-XX	Flexible water cooled leads, from 3 – 15 ft

SPECIFICATIONS

Power Supply Model

	M25/50	M25/150	M35/50	M35/150
Output Power, kW	25	25	35	35
Frequency, kHz	10-50	50-150	10-50	50-150
AC Line, Volts (50/60Hz)	380/480 ±10%	380/480 ±10%	380/480 ±10%	380/480 ±10%
Line Phases	3	3	3	3
Dimensions, Inch (cm) LxWxH	23.6 x 18.9 x 51.2 (60 x 48 x 130)	23.6 x 18.9 x 51.2 (60 x 48 x 130)	23.6 x 18.9 x 51.2 (60 x 48 x 130)	23.6 x 18.9 x 51.2 (60 x 48 x 130)
Compatible Heat Stations	HS-35, HS-35LF	HS-35, HS-35LF	HS-35, HS-35LF	HS-35, HS-35LF

Heat Station Model

	HS-35	HS-35LF
Cable Length between Power Supply and Heat Station: Std / Max Ft (cm)	10 / 20 (305 / 610)	10 / 20 (305 / 610)
Weight lbs (kg)	106.8 (48)	129.1 (58)
Dimensions, Inch (cm) WxDxH	25.7 x 15.9 x 12.9 (65.4 x 40.5 x 32.7)	27.6 x 15.9 x 12.9 (70 x 40.5 x 32.7)
Min. Cooling Water, GpM (LpM)	2 GPM (8 lpm)	2 GPM (8 lpm)
Inlet Water T° (max), °F (°C)	60/95°F (15/35°C)	60/95°F (15/35°C)
Min water pressure PSI (Bar)	45 (3)	45 (3)

