

# STATIPOWER<sup>®</sup> SP12

## Transistorized Induction Heating Power Supplies

### Features/Benefits:

- Available power outputs from 3, 10 and 30 kHz in models of 25 to 450 kW.
- Rated for continuous or intermittent duty.
- Variable ratio output isolation transformer for load impedance matching.
- Internal load matching capacitors for full power operation over a wide range of load conditions.
- Input power factor is 0.95 under all operating conditions.
- Output regulation accuracy is  $\pm 1\%$  of rated power with  $\pm 10\%$  line variance to ensure precise process control.
- Single control board. Field replaceable without adjustment for easy maintenance.
- Optional RS-232/485 interface for automatic operation under computer control.



SP12 150 kW / 30 kHz unit

### Power Supply For General Purpose Induction Heating

The STATIPOWER<sup>®</sup> SP12 is designed to match multi-turn coils (400-2000 V) that are used for hardening, tempering, tube heating, crystal growing, brazing, wire and strip heating and many other induction heating applications. A wide variety of heating coils can be properly matched with built-in load tuning capacitors and multi-tap output isolation transformer.

### Unitized Design For Stand-Alone Operation

Just connect three phase 460 V input power, cooling water and heating coil and you're ready to begin heating. The cabinets are designed to accommodate a variety of fixtures, conveyors and part handling machines. Complete stand-alone control and monitoring include: Manual start/stop push buttons, heat level control with 10 turn lockable dial, four meters and annunciator lights to monitor all operating parameters.

### Remote Or Computer Controlled Operation

Remote control can be accomplished by connection to the user interface provided. Heat time can be controlled from a foot switch, machine control relay or PLC. Heat level can be controlled by a remote potentiometer, 4-20 mA process control signal or analog 0-10 V signal from a PLC. An optional RS-232/485 interface is available for remote computer monitoring, data logging and control.

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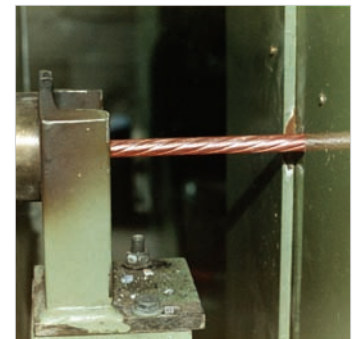
## Transistorized Induction Heating Power Supplies

### SPECIFICATIONS:

ELECTRICAL OUTPUT			PHYSICAL DATA				UTILITY INPUT REQUIREMENTS	
kW Rating at Given Frequency			Dimensions in Inches			Ship Wt.	kVA	Cooling Water (g.p.m.)
3kHz	10kHz	30kHz	Depth	Height	Width	Pounds		
		25	25	32	28	420	31	4
		50	30	68	36	770	62	7
	75		30	68	36	770	94	14
100		100	30	68	36	850	125	14
	150	150	30	80	42	1600	187	18
200		200	30	80	42	1800	250	22
	225		30	80	42	1800	280	24
300	300		30	80	42	1800	375	26
		300	36	90	72	2100	375	26
400			36	90	72	2300	500	30
	450		36	90	72	2300	562	30



100 kW / 10 kHz bar end heater



Wire, cable and tube heating



High voltage multi-turn coil

### COMMON FEATURES:

<b>Energy Conversion Efficiency</b>	85% minimum
<b>Input Power Factor</b>	0.95
<b>Output Regulation</b>	Voltage, power or current
<b>Regulation Accuracy</b>	±1% with ±10% line variance
<b>Water Requirements</b>	95° F (max.) (35° C)
<b>Power Requirements</b>	460 V, 3 phase, 50/60 Hz
<b>Operator Controls</b>	Panel-mounted analog meters for voltage, frequency, current and output power. LED operation and diagnostic indicators. Manual/timed selector switch. Timer control is standard for models up to 100 kW. Ten turn potentiometer for control of output power, voltage or current. On/Off push buttons.
<b>Safety Features</b>	Door interlocked disconnect switch and fast-acting semiconductor-type fuses. External, inlet and outlet cooling water pressure gauges. Water pressure differential switch and manual reset temperature switches on each water circuit.
<b>Options</b>	Unicool water cooling system, 4-20 mA power level control, RS-232/485 interface, digital meters, 0-10 volt meter signals, PLC interface. Optional Timer Control for models larger than 100 kW. Inductor Ground.

\*Specifications are subject to change without notice.



ISO 9001:2000 Certified