

# STATIPOWER<sup>®</sup> SP16

## Transistorized Induction Heating Power Supplies

### Features/Benefits:

- 3, 10, 30 and 50 kHz with models available from 50 kW to 1200 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
- Holding mode for consistent very low power operation
- Restart circuitry eliminates nuisance shutdowns caused by voltage transients, ground faults and shorted or arcing loads



SP16 150 kW / 30 kHz

### Power Supply For General Purpose Induction Heating

The STATIPOWER<sup>®</sup> SP16 is designed to match multi-turn coils (400- 2000 V) that are used for multi-turn hardening or tempering, tube heating, crystal growing, 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

Simply connect three phase 480 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 level can be controlled by a remote potentiometer or 0-10 V analog signal from a PLC. Options include a 4-20 mA process control signal or RS-232/485 interface for remote computer monitoring, data logging and control.

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### SPECIFICATIONS:

ELECTRICAL OUTPUT				UTILITY INPUT REQUIREMENTS		CABINET DIMENSIONS	
kW Rating at Given Frequency				kVA	Cooling Water gpm (lpm)		
3kHz	10kHz	30kHz	50kHz				
			50	62	14 (53)	36 x 30 x 76	(915 x 760 x 1930)
75	75	75		94	14 (53)	36 x 30 x 76	(915 x 760 x 1930)
			100	125	20 (75)	36 x 30 x 76	(915 x 760 x 1930)
150	150	150		186	22 (84)	36 x 30 x 76	(915 x 760 x 1930)
			200	250	24 (92)	72 x 36 x 90	(1830 x 915 x 2285)
300	300	300		375	26 (98)	72 x 36 x 90	(1830 x 915 x 2285)
			300	375	30 (114)	90 x 36 x 90	(2285 x 915 x 2285)
			400	500	38 (144)	90 x 36 x 90	(2285 x 915 x 2285)
450	450	450		558	50 (190)	90 x 36 x 90	(2285 x 915 x 2285)
600	600	600		745	75 (284)	90 x 36 x 90	(2285 x 915 x 2285)

\* Higher power ratings available upon request.

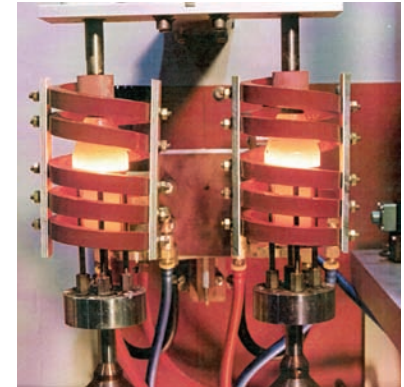
### COMMON FEATURES:

<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. 10-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>	Unicoil water cooling system, 4-20mA power level control, RS-232/485 interface, digital meters, 0-10 volt meter signals, PLC interface. Timer Control with selector switch. Inductor Ground. External cooling manifold.

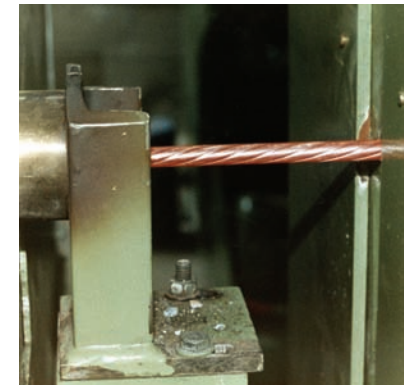
\* Specifications are subject to change without notice.



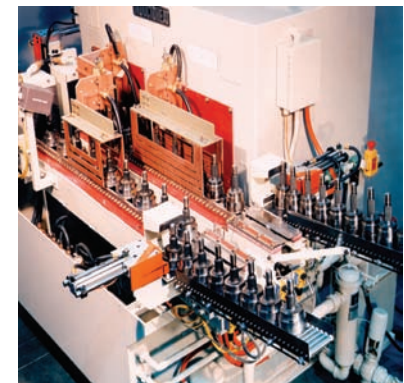
QS9000-TE Certified



Multi-turn coils heat treat two parts simultaneously



Wire, cable and tube heating



Continuous in-line tempering