

STATIPOWER[®] SP5 & 7

Solid State Induction Heating Power Supplies

Features/Benefits:

- Multiple power/frequency combinations for application matched performance
- “Bullet-Proof” circuitry eliminates nuisance shutdowns and restarts
- Input power factor is 0.95 under all operating conditions
- Output regulation by voltage, power or current. Jumper selected
- Single factory calibrated control board. Field replaceable with no adjustment or calibration
- Modular, single-layer design for easy access and maintenance
- Pressure switches on all capacitors to shut down system before complete capacitor failure
- Built-in annunciator panel for simplified status/fault diagnostics
- <85 dB operating sound level for quiet operation

Job-Matched Induction Heating Power Supplies

STATIPOWER[®] SP5 & 7 are water cooled, solid state power supplies designed for case hardening, through hardening, annealing, mass heating and many other applications. Power and frequency combinations from 75-1250 kW with frequencies from 1-25 kHz available in single and dual frequency models.



SP5 300kW / 25kHz

“Bullet-Proof” Circuitry For Improved Reliability

All STATIPOWER[®] systems incorporate “Bullet-Proof” circuitry to eliminate nuisance shutdowns and restarts caused by voltage transients, ground faults and shorted or arcing loads. Because load current is not used for commutation, equipment can be operated with the output shorted for easy trouble shooting. Solid state accuracy assures output power regulation of $\pm 1\%$ with input line variance of up to $\pm 10\%$. Reliability is further enhanced by placement of 95% of all circuitry on one control board which is accessible without entering the high voltage section of the power supply.

Reliable Design For Safety And Long-Life Performance

STATIPOWER[®] units have a DC diode bridge, line choke and capacitor bank to minimize the effects of line noise and harmonic feedback. This also insures a constant input power factor of 0.95 regardless of loading for the best possible efficiency, resulting in lower electric demand charges. Other system features include an input line disconnect with UVR, output isolation transformer, differential pressure switch and temperature switches on water supply and return manifolds and resettable temperature switches on water circuits. Options include a remote meter panel and a 4-20mA interface board for external control.

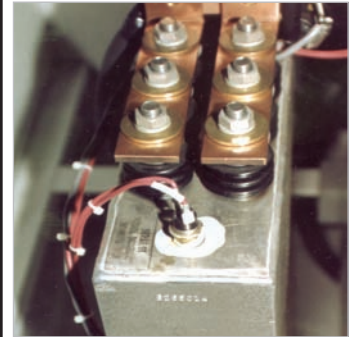
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SPECIFICATIONS:

ELECTRICAL OUTPUT					PHYSICAL DATA					UTILITY INPUT REQUIREMENTS					
kW Rating at Given Frequency					Cabinet Dimensions: in. (mm)				Shipping weight lbs. (kg)	kVA	Cooling Water: gpm. (lpm)				
SP5			SP7		Depth	Height	Width	SP5			SP7				
1-3kHz	3-10kHz	25kHz	1kHz	3kHz							1-3kHz	3-10 kHz	25 kHz	1 kHz	3 kHz
250					36 (915)	90 (2285)	72 (1825)	2000 (910)	309	25 (95)					
300					36 (915)	90 (2285)	72 (1825)	2200 (990)	372	30 (115)					
400					36 (915)	90 (2285)	72 (1825)	2600 (1180)	500	50 (190)					
500					36 (915)	90 (2285)	100 (2540)	2500 (1135)	620	60 (225)					
750					36 (915)	90 (2285)	138 (3500)	4500 (2040)	930	70 (265)					
1000					72 (1825)	90 (2285)	114 (2895)	6800 (3085)	1240	80 (305)					
1250					72 (1825)	90 (2285)	160 (4065)	7400 (3355)	1550	90 (340)					
	100				30 (760)	80 (2030)	42 (1065)	1500 (680)	125	25 (95)					
	150				30 (760)	80 (2030)	42 (1065)	2100 (950)	187	25 (95)					
	200				30 (760)	80 (2030)	42 (1065)	2100 (950)	248	25 (95)					
	250				36 (915)	90 (2285)	72 (1825)	2100 (950)	309	30 (115)					
	300				36 (915)	90 (2285)	72 (1825)	2100 (950)	372	30 (115)					
	400				36 (915)	90 (2285)	72 (1825)	2600 (1180)	500	40 (150)					
	450				36 (915)	90 (2285)	100 (2540)	2600 (1180)	560	50 (190)					
	500				36 (915)	90 (2285)	160 (4065)	4800 (2180)	620	75 (285)					
	600				36 (915)	90 (2285)	160 (4065)	4800 (2180)	745	75 (285)					
		75			30 (760)	80 (2030)	42 (1065)	1200 (545)	94		15 (60)				
		150			36 (915)	90 (2285)	72 (1825)	2100 (950)	187		25 (95)				
		300			72 (1825)	90 (2285)	114 (2895)	4000 (1815)	372		45 (175)				
			175		36 (915)	90 (2285)	72 (1825)	1900 (860)	216			20 (75)			
			230		36 (915)	90 (2285)	72 (1825)	2000 (910)	284			25 (95)			
			350		36 (915)	90 (2285)	72 (1825)	2500 (1135)	432			40 (150)			
			460		36 (915)	90 (2285)	72 (1825)	2500 (1135)	568			40 (150)			
			625		36 (915)	90 (2285)	114 (2895)	3000 (1360)	775			60 (225)			
			700		36 (915)	90 (2285)	138 (3500)	3600 (1635)	875			65 (245)			
			920		36 (915)	90 (2285)	138 (3500)	4500 (2040)	1140			75 (285)			
			1000		72 (1825)	90 (2285)	72 (1825)	6000 (2720)	1300			80 (305)			
			1300		72 (1825)	90 (2285)	114 (2895)	6500 (2950)	1610			90 (340)			
				150	36 (915)	90 (2285)	72 (1825)	800 (815)	187				15 (60)		
				200	36 (915)	90 (2285)	72 (1825)	2000 (910)	248				20 (75)		
				250	36 (915)	90 (2285)	72 (1825)	2000 (910)	309				20 (75)		
				350	36 (915)	90 (2285)	72 (1825)	2500 (1135)	432				40 (150)		
				400	36 (915)	90 (2285)	100 (2540)	2500 (1135)	500				40 (150)		
				500	36 (915)	90 (2285)	100 (2540)	2900 (1315)	620				50 (190)		
				700	36 (915)	90 (2285)	114 (2895)	4500 (2040)	875				75 (285)		
				750	36 (915)	90 (2285)	138 (3500)	4500 (2040)	930				70 (265)		
				1000	36 (915)	90 (2285)	160 (4065)	6000 (2720)	1300				80 (305)		
				1250	72 (1825)	90 (2285)	160 (4065)	7000 (3175)	1550				90 (340)		

Specifications subject to change without notice.



Pressure switch protection on each capacitor



Single layer interior design and specially routed water hoses provide maximum accessibility to components



ISO 9001:2000 Certified

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