

Induction heating transistor generators SM Type

The SM generator series includes the traditional advantages of the Transithermic® family of generators (high reliability, easy use, superior efficiency) in a series circuit design.

The standard version includes a DCP (Digital Control Panel) which enables the generator parameters and configuration display.

The SM generator is the most suitable solution for induction heating applications at medium frequencies between 0,5 and 20 kHz. For medium power SM generator is able to cover between 20 kHz and 150 kHz.



Transithermic ® SM 100 KW view (air conditioned in option)

SM type transistor generator for induction heating Medium frequency with series oscillating circuit

General features

- Design for series oscillating circuit
- Frequency: 0,5 - 20 kHz for whole range and 20-150 kHz up to 100 kW
- Power: 12 kW to 800 kW
- Input voltage: 380 - 440 V; 50 or 60 Hz
- Efficiency: up to 90%
- Modular design with plug-in power control cards
- Protection: IP 54 (standard) or IP 55
- DCP (Digital Control Panel) included in standard version
- Optional Field Bus interfaces

The Transithermic® transistor generators can work in variable frequencies. The frequency is automatically coupled to the load, in every application, within a wide range.

Technical features

Type		12SM	25SM	50SM	75SM	100SM	150SM	200SM	250SM	300SM	400SM	500SM	600SM	800SM
Output continuous power	kW	12	25	50	75	100	150	200	250	300	400	500	600	800
Frequency		[0.5, 20] KHz					[20, 150] kHz		[0.5, 20] kHz					
Power supply	kVA	15	31	63	94	125	188	250	313	375	500	625	750	1000
Voltage supply		380 – 440 VAC,					380 VAC 50/60 Hz		440 VAC 50/60 Hz (Autotrafo)					
Generator width	mm	600	600	600	1200	1200	1200	1200	1400	1400	1400	2600	2600	3000
Generator depth	mm	800	800	800	800	800	800	800	800	800	800	900	900	900
Generator height	mm	1725	1725	1725	2 000	2 000	2 000	2 000	2 000	2 000	2 000	2 000	2 000	2 000
Width with R-3 cooling system	mm	600	600	600	2000	2000	2000	2000	2200	2300	2300	3500	3500	4000
Depth with R-3 cooling system	mm	800	800	800	800	800	800	800	800	800	800	900	900	900
Height with R-3 cooling system	mm	1725	1725	1725	2 000	2 000	2 000	2 000	2 000	2 000	2 000	2 000	2 000	2 000
Water temperature min/max		20°C / 37°C												
Water supply		1"	1"	1"	1"	1"	1"	1"	1"	1" ¼"	1" ¼"	1" ½"	1" ½"	1" ½"
Waterflow	l/min	10	10	10	15	15	30	40	48	70	70	115	115	140

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