

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 the GH TouchHMI user interface based on the latest screen technology. A full colour panoramic IPS TFT touch screen which enables to display the generator parameters and configuration .

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 50 KW view

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

General features

- Design for series oscillating circuit
- Modular design with plug-in power control cards
- Frequency: 0,5 - 20 kHz for whole range and 20-150 kHz up to 100 kW
- Power: 12 kW to 800 kW
- Efficiency: up to 90%
- Cos φ : up to 0.95
- Protection: IP 54 (standard) or IP 55
- TouchHMI: Full colour TFT touch screen, IPS and led backlight technology and Wide VGA (800x480) format.
- Optional Field Bus interfaces: Interbus, Profibus, Profinet, DeviceNet, Ethernet or customized protocol

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	kHz	[0.5, 20] [20, 150]						[0.5, 20]									
Power supply	kVA	15	31,25	62,5	93,75	125	187,5	250	312,5	375	500	625	750	1000			
Voltage supply		380-480 VAC 50/60 Hz				380-480 VAC 50/60 Hz ⁽¹⁾											
Generator width	in/mm	23,6/600			31,5/800		47,2/1200			55,1/1400		55,1/1400		102,3/2600		118,1/3000	
Generator depth	in/mm	23,6-31,5/600-800				31,5/800		31,5/800			31,5/800		31,5/800		35,4/900		35,4/900
Generator height	in/mm	43,3/1100			78,7/2000		78,7/2000			78,7/2000		78,7/2000		78,7/2000		78,7/2000	
Width with cooling system	in/mm	23,6/600			78,7/2000		78,7/2000			86,6/2200		90,5/2300		137,8/3500		157,5/4000	
Depth with cooling system	in/mm	23,6/600		31,5/800		31,5/800		31,5/800			31,5/800		35,4/900		35,4/900		
Height with cooling system	in/mm	74,5/1900			78,7/2000		78,7/2000			78,7/2000		78,7/2000		78,7/2000		78,7/2000	
Water temperature min/max	°F/°C	[68, 98,6] / [20, 37]															
Water supply		1"						1" ¼"				1" ½"					
Waterflow	gpm/lpm	2,6/10			3,9/15		7,9/30		8,8/40		12,7/48		18,5/70		30,38/115		36,7/140

Note (1): With autotrafo from 400VAC