

SiCMag

Multi-Application MF/HF Generator 100 kW to 800 kW



- 100..800 kW MF-HF Power Supply
- MF Frequency Range: 5 k - 50 kHz
- HF Frequency Range: 20-400 kHz
- Efficiency: 98,4% @ 400 kHz
- Single or Multi-Power Port
- Power Regulation: 2..100%



Multi-Application Generator for Induction Heating Applications

Total Output Power 100..800 kW

Wide Frequency Range 15..400 kHz

Single or up to 8 independent power ports

Generator Based on a SiC MOSFET Transistor Series Inverter

Fully Digital Controller

Extremely High Efficiency

Compact Size & Low Weight

Commercial PLC

Industrial Field Buses

Water Cooling

Applications

- Induction Heat Treatment
- Induction Hardening
- Induction Tempering
- Induction Annealing
- Induction Pre & Post Heating
- Induction Cable & Wire Heating

www.sictechinduction.com
sictech@sictechinduction.com



Reference	SiCMag100k...	SiCMag200k...	SiCMag300k...	SiCMag400k...	SiCMag500k...	SiCMag600k...	SiCMag700k...	SiCMag800k...
Total Output Power	100 kW	200 kW	300 kW	400 kW	500 kW	600 kW	700 kW	800 kW
Output Frequency Range SiCmag...k50	5-50 kHz	5-50 kHz	5-50 kHz	5-50 kHz	5-50 kHz	5-50 kHz	5-50 kHz	5-50 kHz
Output Frequency Range SiCmag...k400	20-400 kHz	20-400 kHz	20-400 kHz	20-400 kHz	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Multipower port distribution (1)	Applicable to all frequency range				Applicable to the 5-50 kHz range			
1 Power Output	100 kW	200 kW	300 kW	400 kW	500 kW	600 kW	700 kW	800 kW
2 Power Outputs	50 kW each	100 kW each	Output #1: 200 kW Output #2: 100 kW	200 kW each	Two to eight outputs in any combination of multiples of 100 kW			
3 Power Outputs			100 kW each	Any combination of multiples of 100 kW				
4 Power Outputs	25 kW each	50 kW each		100 kW each				
5 to 7 Power Outputs								
8 Power Outputs	12,5 kW each	25 kW each						
Efficiency	98,9% at 50 kHz 98,4% @ 400 kHz							
Mains Voltage	400 V _{AC} ± 10 % (Three-Phase)							
Normal Oper. Freq. Range	50 & 60 Hz							
Cos (φ)	> 0,99							
Output Circuits	Series LC							
Inductor Short Circuit Protec.	Yes							
Controller	Fully Digital Controller							
Power Regulation Range (2)	2...100%							
Power Setting Time (3)	1 mseg							
Size (W x D x H)	600x600x1.600	600x600x1.600	600x600x1.600	600x600x1.600	1.200x600x1.600	1.200x600x1.600	1.200x600x1.600	1.200x600x1.600
Weight	150 kg	150 kg	175 kg	175 kg	215 kg	215 kg	250 kg	250 kg
Cooling	Water							
Water Max. Temperature	40°C							
Minimum Water	5 l/min	10 l/min	15 l/min	20 l/min	25 l/min	30 l/min	35 l/min	40 l/min
Environmental Temperature Range	+5°C to +50°C							
Maximum Humidity	90%							
User Interface	Siemens HMI KTP700							
Optional Fielbus	ModBus, ProfiNet, ProfiBus,....							

(1) Each output is independent form the others and can be individually regulated and have a different frequency according the application

(2) At Nominal Load

(3) At Adaptative Mode

SMART INDUCTION CONVERTER TECHNOLOGIES S.L.
Ronda Guglielmo Marconi, 11 (Local 1B)
Parque Tecnológico
46980 Paterna, Valencia (SPAIN)
Phone: +34 644 263 666



www.sictechinduction.com
sictech@sictechinduction.com