

SERIES SINUS

CONVERTERS FOR INDUCTIVE HEATING

High-frequency converters
5 - 25 kW / 0,05 - 2,0 MHz



HIMMELWERK
Leading Induction

SINUS series

Model	SINUS 51	SINUS 52	SINUS 55	SINUS 62
Output				
HF-Power	5 kW	5 kW	5 kW	6 kW
Frequenz	500 - 1000 kHz	1000 - 2000 kHz	200 - 500 kHz	50 - 200 kHz
Input				
Main power	5,5 kVA	5,5 kVA	5,5 kVA	6,5 kVA
Main voltage*	3x400V +/-10% / N / PE			
Main current	9 A	9 A	9 A	10 A
Frequency	50 / 60 Hz			
Cos phi	0,95			
Fuses	16 A	16 A	16 A	16 A
Cooling Water				
Power supply	4-5 l/ min	4-5 l/ min	4-5 l/ min	4-5 l/ min
Inductor	Depending on application			
Input pressure	< 6 bar			
Pressure difference	> 3,5 bar			
Temperature	18°C – 25 °C			
Dimensions (WxHxD) in mm				
Power supply	380x280x320	380x280x320	380x280x320	380x280x320
Outer circuit**	120x140x240	120x140x240	120x140x240	120x140x240
Weight				
Power supply	28 kg	28 kg	28 kg	28 kg
Outer circuit**	7 kg	7 kg	7 kg	7 kg

* Other voltages available
** Standard configuration, variations available on request

	SINUS 101	SINUS 102	SINUS 105	SINUS 122	SINUS 251	SINUS 252
	10 kW	10 kW	10 kW	12 kW	25 kW	25 kW
	500 - 1000 kHz	1000 - 2000 kHz	200 - 500 kHz	50 - 200 kHz	500 - 1000 kHz	1000 - 2000 kHz
	11 kVA	11 kVA	11 kVA	13 kVA	28 kVA	28 kVA
	3x400V +/-10% / N / PE					
	16 A	16 A	16 A	19 A	41 A	41 A
	50 / 60 Hz					
	0,95					
	25 A	25 A	25 A	32 A	63 A	63 A
	6-8 l/ min	6-8 l/ min	6-8 l/ min	7-9 l/ min	10-12 l/ min	10-12 l/ min
	Depending on application					
	< 6 bar					
	> 3,5 bar					
	18°C – 25 °C					
	400x280x420	400x280x420	400x280x420	400x280x420	600x1100x600	600x1100x600
	120x140x240	120x140x240	120x140x240	180x186x300	250x300x170	250x300x170
	33 kg	33 kg	33 kg	33 kg	110 kg	110 kg
	7 kg	7 kg	7 kg	7 kg	28 kg	28 kg

Advantages

- High efficiency
- High reliability
- Reproducibility of all parameters
- Selective heating
- Designed for 100% duty cycle
- Easy integration in production processes
- Immediate readiness
- High cost effectiveness
- No need for demineralized cooling water

Flexibility

- Large spectrum of applications
- Free programming
- External heating head with compact design
- Optional second switchable heating head
- Connection with flexible cables
- Interface for external control
- Profibus, Profinet optional
- Other interface options on request
- Optional connection with pyrometer



Applications

- Brazing and Soldering
- Hardening / Tempering
- Joining
- Forging
- Pre-Heating
- Annealing
- Sealing
- Smelting
- Drying
- Baking
- Recycling
- Special Solutions

