

HIMMELWERK

Induction. Heating. Solutions.



Converters for induction heating

SINUS series

5 kW - 25 kW

50 kHz - 2000 kHz

SINUS series

Model	SINUS 51	SINUS 52	SINUS 55	SINUS 62	SINUS 101
Output					
HF-Power	5 kW	5 kW	5 kW	6 kW	10 kW
Frequency	500 - 1000 kHz	1000 - 2000 kHz	200 - 500 kHz	50 - 200 kHz	500 - 1000 kHz
Input					
Main power	5,5 kVA	5,5 kVA	5,5 kVA	6,5 kVA	11 kVA
Main voltage*	3x400V +/-10% / N / PE				
Main current	9 A	9 A	9 A	10 A	16 A
Frequency	50 / 60 Hz				
Cos phi	0,95				
Fuses	16 A	16 A	16 A	16 A	25 A
Cooling Water					
Power supply	4-5 l/ min	4-5 l/ min	4-5 l/ min	4-5 l/ min	6-8 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	400x280x420
External circuit	120x140x240	120x140x240	120x140x240	120x140x240	120x140x240
Weights					
Power supply	28 kg	28 kg	28 kg	28 kg	33 kg
External circuit**	7 kg	7 kg	7 kg	7 kg	7 kg

* Other tensions available

** standard configuration, variations available on request

SINUS series

Model	SINUS 102	SINUS 105	SINUS 122	SINUS 251	SINUS 252
Output					
HF-Power	10 kW	10 kW	12 kW	25 kW	25 kW
Frequency	1000 - 2000 kHz	200 - 500 kHz	50 - 200 kHz	500 - 1000 kHz	1000 - 2000 kHz
Input					
Main power	11 kVA	11 kVA	13 kVA	28 kVA	28 kVA
Main voltage*	3x400V +/-10% / N / PE				
Main current	16 A	16 A	19 A	41 A	41 A
Frequency	50 / 60 Hz				
Cos phi	0,95				
Fuses	25 A	25 A	32 A	63 A	63 A
Cooling Water					
Power supply	6-8 l/ min	6-8 l/ min	7-9 l/ min	10-12 l/ min	10-12 l/ min
Inductor	Depending on application				
Input pressure	< 6 bar				
Pressure difference	> 3,5 bar				
Temperature	18°C – 25 °C				
Dimensions (BxHxT) in mm					
Power supply**	400x280x420	400x280x420	400x280x420	600x1100x600	600x1100x600
External circuit	120x140x240	120x140x240	180x186x300	250x300x170	250x300x170
Weights					
Power supply	33 kg	33 kg	33 kg	110 kg	110 kg
External circuit**	7 kg	7 kg	7 kg	28 kg	28 kg

* Other tensions available

** standard configuration, variations available on request

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 (depending on converter type)
- Connection with flexible cables
- Interface for external control
- Profibus, Profinet optional
- Other interfaces on request
- Optional connection with pyrometer

Applications

- brazing
- soldering
- hardening
- shrinkage
- pre-heating
- annealing
- smelting
- drying
- tempering
- forging
- sintering
- sealing

