

SiCBraz Family

Silicon Carbide Generator for Brazing Applications



Mobi Cabinet



Wall Cabinet

- SiC Technology
- Continuous Power up to 50 kW
- Intermittent Power up to 100 kW
- Frequency Ranges: 10-50 kHz
- Efficiency: 99,1% @ 50 kHz



Induction heating generator for brazing applications

Total Output Power up to 50 kW

Wide frequency range 10...50 kHz

200% overcurrent capability

200% intermittent power capability

Includes induction power inverter, resonant tank and cooling system

Up to two independent power ports

Integrated fully digital controller

Extremely high efficiency

Compact Size & Low Weight

Siemens PLC with SIRIUS safety relay

Water Cooling

Applications

- Brazing
- Soldering
- Automotive Industry
- White Goods Industry
- Medical Industry
- Motor Industry



The SiCBraz Family Technical Specs

SiCBraz Family	SiCMobi/SiCWall 12k50S Single	SiCMobi/SiCWall 25k50S Single	SiCMobi/SiCWall 25k50D Dual	SiCMobi/SiCWall 50k50S Single	SiCMobi/SiCWall 50k50D Dual
Total Continuous Output Power	12,5 kW	25 kW	25 kW	50 kW	50 kW
Output Circuits	1	1	2	1	2
Power per Output	#1: 12,5 kW	#1: 25 kW	#1: 12,5 kW #2: 12,5 kW	#1: 50 kW	#1: 25 kW #2: 25 kW
Total Intermittent Output Power DT: 50% or Tmax:10 min	#1: 25 kW	#1: 50 kW	#1: 25 kW #2: 25 kW	#1: 100 kW	#1: 50 kW #2: 50 kW
Output Frequency Range	10...50 kHz				
Inverter Efficiency	98,9 % @ 40 kHz				
Mains Voltage ⁽¹⁾	400/480 V _{AC} ± 10 % (Three-Phase)				
Cos (φ)	> 0,99				
Heating Station	LT12k50	LT25k50	2x LT25k50	LT50k50	2x LT25k50
Inductor Short Circuit	Yes				
Controller	Fully Digital Controller				
Power Regulation ⁽²⁾	2...100 %				
Power Setting Time ⁽³⁾	< 1 ms				
SiCMobi Size (W x D x H)-cm	60x70x115	60x70x115	60x70x115	60x70x115	60x70x115
SiCMobi Weight (w/o coaxial trafo)	87 kg	90 kg	100 kg	114 kg	114 kg
SiCWall Size (W x D x H)-cm	60x35x76	60x35x76	60x35x76	60x35x76	60x35x76
SiCWall Weight (w/o coaxial trafo)	73 kg	76 kg	86 kg	100 kg	100 kg
Cooling	Water				
Water Max. Temperature	40 °C				
Minimum Water (including Heating Station)	15 l/min	15 l/min	15 l/min	25 l/min	30 l/min
Delta T	2,4 °C	2,4 °C	2,4 °C	2,9 °C	2,4 °C
Environmental Temperature Range	+5 °C to +50 °C				
Maximum Humidity	90 %				
User Interface	Siemens HMI KTP700				
Standard Fieldbus	ModBus TCP/IP				
Optional Fieldbuses	Profinet, DeviceNet,				
Optional External Control Unit	The Unit comprises: External Star/stop, External power control, External Emergency Stop				
Optional Temperature Control	Low temperature Pyrometer (150-400 °C); High temperature Pyrometer (500-1000 °C)				
Optional Cable Length	10 m				

NOTE: ⁽¹⁾ For 480 VAC contact with SiCtech
⁽²⁾ At Nominal Load
⁽³⁾ At Adaptive Mode

Subject to changes