

SiCWeld Family

Silicon Carbide Welder



Induction Heating Generator for Continuous Tube Welding

Total Output Power up to 1.600 kW

Wide Frequency Range 250...400 kHz

Adapted for Single and 2-turn Inductors

Compact Enclosure

Integrated Fully Digital Controller

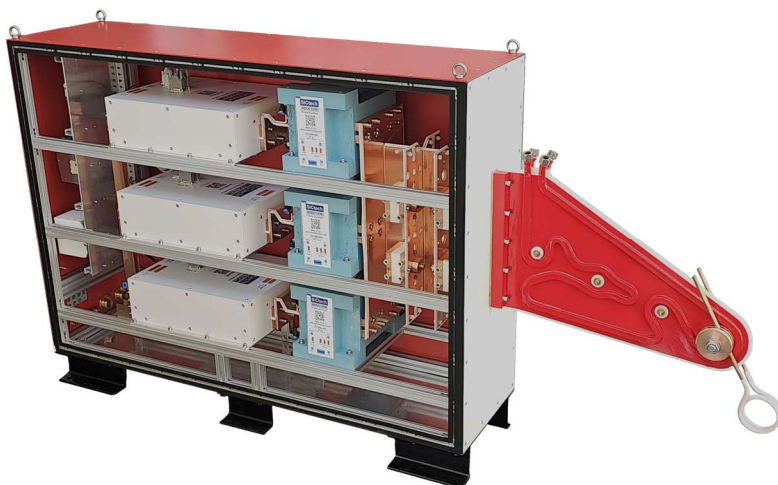
Extremely High Efficiency

Compact Size & Low Weight

Siemens PLC with SIRIUS safety relay

Water Cooling

- Power up to 1.600 kW
- Frequency Ranges: 250-400 kHz
- Efficiency: 98,4% @ 400 kHz
- Volume: 550 l (with 300 kW)



HF Inverter Cabinet

Applications

- Continuous Tube Welding



The SiCWeld Technical Specs

SiCWeld Family								
Power ⁽¹⁾	100 kW	200 kW	300 kW	400 kW	500 kW	600 kW	700 kW	800 kW
HF Output Frequency Range	250-400 kHz							
Inverter Efficiency	98,9 % @ 250 kHz 98,4 % @ 400 kHz							
Mains Voltage ⁽²⁾	400-480 VAC ± 10 % (Three-Phase)							
Mains Frequency Range	50 & 60 Hz							
Cos (φ)	> 0,99							
Output Circuits	Series LC							
Inductor Short Circuit Protec.	Yes							
Controller	Fully Digital Controller							
Power Regulation Range ⁽³⁾	2...100 %							
Power Setting Time ⁽⁴⁾	1 ms							
Front-end Cabinet Dimensions, WxDxH (mm)	600 x 600 x 1.800							
Front-end Cabinet Weight (kg)	165	170	170	175	185	190	200	200
HF Inverter Dimensions w(370) x d(1.350) x h (mm)	550	810	1.100	1.350	1.600	1.870	2.140	2.400
HF Inverter Weight (kg)	110	200	300	340	480	580	670	760
Water Max. Temperature	35 °C							
Environmental Temperature	+5 °C to +40 °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 Start/stop, External Power Control, External Emergency Stop							

NOTE: ⁽¹⁾ For Higher Power, please contact us
⁽²⁾ For 480 VAC contact with SiCtech
⁽³⁾ At Nominal Load
⁽⁴⁾ At Adaptive Mode

Subject to changes

