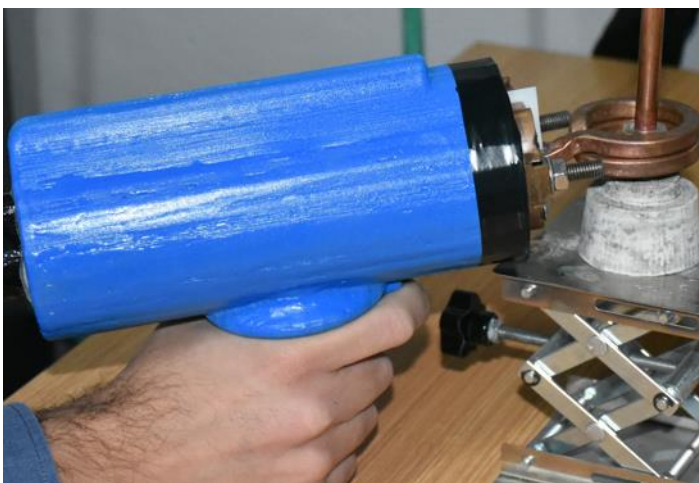


# SiCMobi

## Compact MF/HF Power Supply 12,5 kW to 100 kW



- 12,5..100 kW MF-HF Power Supply
- MF Frequency Range: 5 kHz - 50 kHz
- HF Frequency Range: 20 kHz - 400 kHz
- Efficiency: 98,4% @ 400 kHz
- Single or Multi-Power Port
- Power Regulation: 2..100%



Compact Power Supply for Induction Heating Applications

Total Output Power 12,5..100 kW

Wide Freq. Range 4..50/20..400 kHz

System Based on a SiC MOSFET Transistor Series Inverter

Up to 4 independent power outputs

Connection to a reactive coaxial trafo

Integrates Internal Capacitor Bank

Extremely High Efficiency

Compact Size & Low Weight

Table or Mobile Mounted

Integrated Smart Digital Controller

Water Cooling

### Applications

- Induction Heat Treatment
- Brazing
- Bold Heating
- Glueing
- .....



SiC	SiCMobi12k50 SiCMobi12k400 Single	SiCMobi25k50 SiCMobi25k400 Single	SiCMobi25k50 SiCMobi25k400 Dual	SiCMobi50k50 SiCMobi50k400 Single	SiCMobi50k50 SiCMobi50k400 Dual	SiCMobi100k50 Single	SiCMobi100k50 Dual	SiCMobi100k50 Quad
Total Continuous Output Power	12,5 kW	25 kW	25 kW	50 kW	50 kW	100 kW	100 kW	100 kW
Outputs <sup>(1)</sup>	#1: 12,5 kW	#1: 25 kW	#1: 12,5 kW #2: 12,5 kW	#1: 50 kW	#1: 25 kW #2: 25 kW	#1: 100 kW	#1: 50 kW #2: 50 kW	#1: 25 kW #2: 25 kW #3: 25 kW #4: 25 kW
Total Intermittent Output Power 50%,10min	#1: 25 kW,	#1: 50 kW,	#1: 25 kW #2: 25 kW	#1: 100 kW,	#1: 50 kW #2: 50 kW	#1: 200 kW,	#1: 100 kW #2: 100 kW	#1: 50 kW #2: 50 kW #3: 50 kW #4: 50 kW
Output Frequency Range	SiCMobi..k50: 5...50 kHz SiMobi..k400: 20-400 kHz							
Inverter Efficiency	98,9% @ 50 kHz 98,4% @ 400 kHz							
Mains Voltage	400 V <sub>AC</sub> ± 10 % (Three-Phase)							
Mains Frequency	50 & 60 Hz							
Cos (φ)	> 0,99							
Output Circuits	Series LC							
Heating Station	Coaxial Transformer LT50/LT400							
Inductor Short Circuit	Yes							
Controller	Fully Digital Controller							
Power Regulation <sup>(2)</sup>	2...100%							
Power Setting Time <sup>(3)</sup>	< 1 ms							
SiCMobi..k50 Size (W x D x H1xH2)	400x400x250x135	400x400x250x135	400x400x250x135	400x400x250x135	400x400x250x135	600x600x350x250	600x600x350x250	600x600x350x250
SiCMobi..k400 Size (W x D x H1xH2)	600x600x350x250	600x600x350x250	600x600x350x250	600x600x350x250	600x600x350x250	Not Applicable	Not Applicable	Not Applicable
SiCMobi..k50 Weight	30 kg	35 kg	40 kg	45 kg	50 kg	60kg	70 kg	80 kg
SiCMobi..k400 Weight	35 kg	40 kg	45 kg	50 kg	55 kg	----	-----	----
Cooling	Water							
Water Max. Temperature	40°C							
Minimum Water including Heating Station	10 l/min	10 l/min	15 l/min	15 l/min	15 l/min	20 l/min	25 l/min	30 l/min
Environmental Temperature Range	+5°C to +50°C							
Maximum Humidity	90%							
User Interface	SiCtech HMI							
Optional User Interface	Siemens HMI KTP700							
Optional Fielbus	ModBus, ProfiNet, ProfiBus,....							

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

<sup>(2)</sup> At Nominal Load

<sup>(3)</sup> At Adaptative Mode

**SMART INDUCTION CONVERTER TECHNOLOGIES S.L.**

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