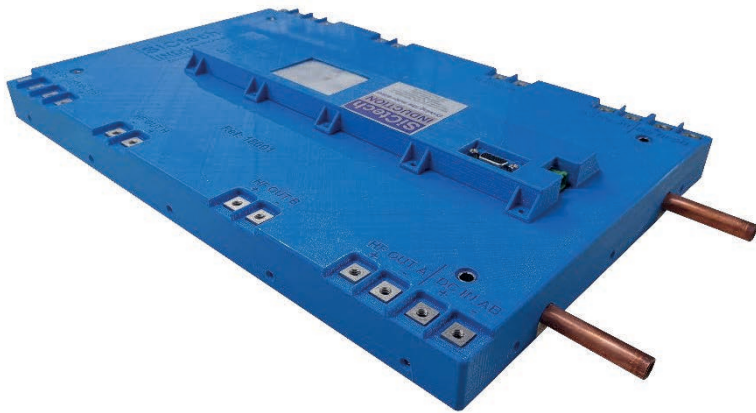
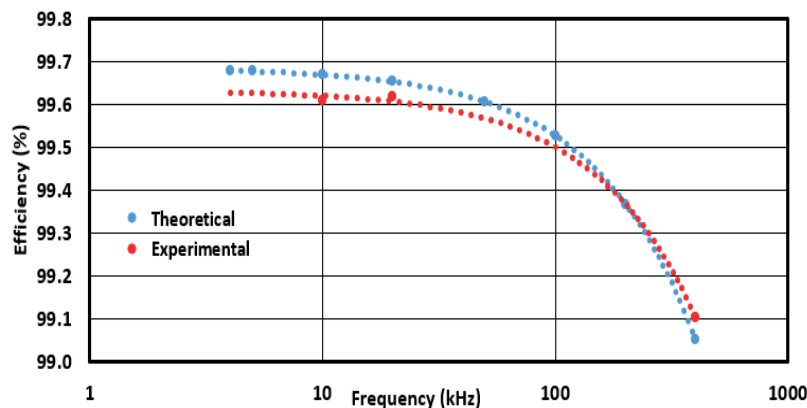


Smart Induction Heating Inverter Module i100k400



- 100 kW MF-HF Inverter
- Frequency Range: 10 kHz - 400 kHz
- 100 kW in 3,2 litres
- Power Density: 32 kW/litre
- Efficiency: 99,1% @ 400 kHz
- Efficiency: 99,6% @ 20 kHz
- Weight: 6 kg



Universal Smart Power Module for Induction Heating Applications

8 x 12,5 kW Independent Outputs

Total Output Power 100 kW

Wide Frequency Range 10..400 kHz

SiC Multi-Power Port Technology

Extremely High Efficiency

Ultra Compact Size & Low Weight

Integrated Smart Controller

CAN Bus Interface to PLC

Integrates Power Inverter, Driving Circuits, Floating Auxiliary power Supplies, Sensors and Heatsink

Water Cooling

Applications

- Induction Hardening
- Induction Brazing
- Induction Annealing
- Stress Relieving
- Multi-Task Induction



GENERAL FEATURES	
Output Power	100 kW
Output Frequency Range	10...400 kHz
Multi-Power Port	8 x 12,5 kW Independent Power Ports
Efficiency	99,6% @ 20 kHz / 99,1% @ 400 kHz
Power Density	32 kW/litre
Power Specific Weight	17 kW/kg
INPUT	
Supply Voltage Range	500-650 V _{DC}
Input DC Current	202 A _{DC} @ 500 V _{DC} , 155 A _{DC} @ 650 V _{DC}
Input DC Power	100,5 kW @ 20 kHz / 100,9 kW @ 400 kHz
OUTPUT	
Output Circuits	Series LC
Inductor Short Circuit Protection	Yes
CONTROLLER	
Controller	Fully Digital Controller
Control Strategies	FM
Power Regulation Range ⁽¹⁾	5...100%
Current Regulation Range ⁽¹⁾	5...100%
Power Setting Time ⁽²⁾	< 50 ms
MECHANICAL SPECIFICATIONS	
Size (width x depth x height)	257 x 398 x 31 mm
Weight	6 kg
COOLING SPECIFICATIONS	
Cooling	Water
Water Maximum Temperature	40°C
Minimum Water	5 l/min
ENVIRONMENTAL CONDITIONS	
Environmental Temperature Range	-10°C to +40°C
Maximum Humidity	90%
COMMUNICATION	
Interfaces	CAN BUS (basic) Interface

⁽¹⁾ At Nominal Load

⁽²⁾ At Adaptive Mode

SMART INDUCTION CONVERTER TECHNOLOGIES S.L.
 Parc Científic de la Universitat de València
 c/ Catedrático Agustín Escardino 9
 46980 Paterna, Valencia (SPAIN)
 Phone: +34 644 263 666



www.sictechinduction.com
sictech@sictechinduction.com