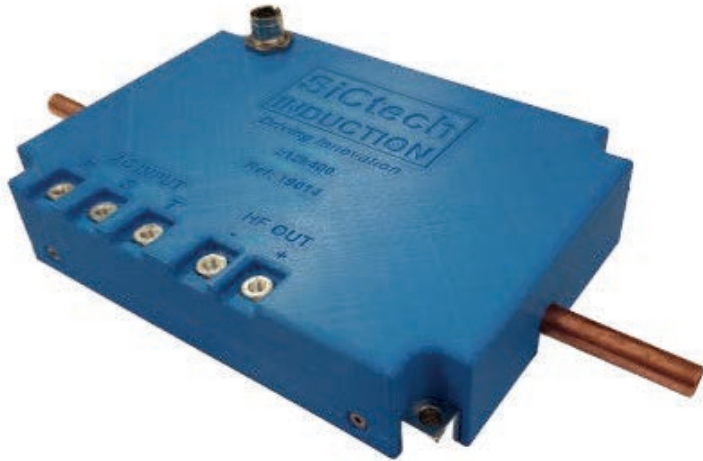
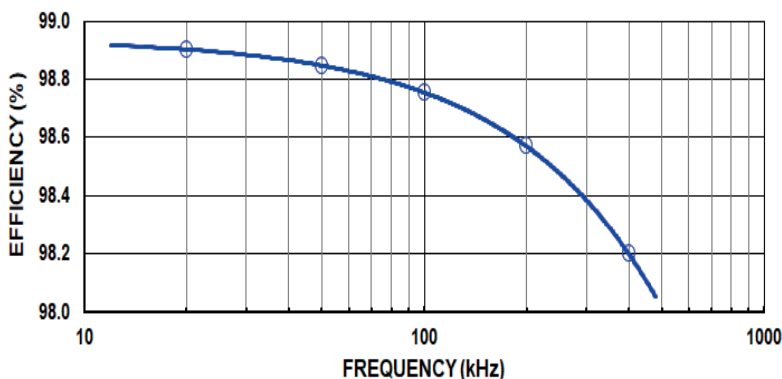


Smart Induction Heating Converter Module w12k400R



- 12,5 kW MF-HF Converter
- Frequency Range: 8 kHz - 400 kHz
- 12,5 kW in 0,9 litres
- Power Density: 14 kW/litre
- Efficiency: 98,2% @ 400 kHz
- Efficiency: 98,9% @ 20 kHz
- Weight: 1,5 kg



Universal Smart Power Module for Induction Heating Applications

Total Output Power 12,5 kW

Wide Frequency Range 8..400 kHz

SiC Single-Power Port Technology

Fully Digital Controller

Extremely High Efficiency

Ultra Compact Size & Low Weight

Integrated Smart Controller

CAN Bus Interface to PLC

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

Water Cooling

Applications

- Induction Brazing
- Induction Sealing
- Induction Curing
- Shrink Fitting
- Coating ...



GENERAL FEATURES	
Output Power	12,5 kW
Output Frequency Range	8...400 kHz
Single-Power Port	1 x 12,5 kW
Efficiency	98,9% @ 20 kHz / 98,2% @ 400 kHz
Power Density	14 kW/litre
Power Specific Weight	8,3 kW/kg
INPUT	
Mains Voltage	400 V _{AC} (Three-Phase)
Normal Operating Range	400 V _{AC} ± 10 %
Input AC Current (400 kHz)	21,4 A _{AC} @ 360 V _{AC} , 17,5 A _{AC} @ 440 V _{AC}
Input AC Power (400 V _{AC})	13,2 kVA @ 20 kHz / 13,3 kVA @ 400 kHz
Normal Operating Frequency Range	47,5 / 63 Hz
Cos (φ)	> 0,99
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)	140 x 187 x 33 mm
Weight	1,5 kg
COOLING SPECIFICATIONS	
Cooling	Water
Water Maximum Temperature	40°C
Minimum Water Flow	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 Adaptative Mode

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