

Compact Induction Heating Transformer t100k400



- 100 kVA MF-HF Transformer
- Input Voltage: 450 to 650 V_{RMS}
- Frequency Range: 15 kHz - 400 kHz
- 100 kVA in 6,9 litres
- Power Density: 14,5 kVA/litre
- Efficiency: 99% @ 12kVA - 80% @ 100kVA
- Weight: 15 kg
- 18 Ratios Available (2,5:1 to 9:1)

Universal Transformer for Induction Heating Applications

Total Output Power 100 kVA

Wide Frequency Range 15..400 kHz

Designed for SiCtech Modules

Multi-Ratio Technology

High Efficiency

Ultra Compact Size & Low Weight

Wide Voltage Range

Water Cooled

Modules Compatible

- w100k400
- w50k400R
- w12k400R

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GENERAL FEATURES

Output Power	100 kVA
Output Frequency Range	15...400 kHz
Number of ratios availables	18 (check ratio chapter below)
Efficiency	95% @ 50 kVA
Power Density	14,5 kVA/litre
Power Specific Weight	6,7 kVA/kg

INPUT

Input Voltage Range	437...650 V _{RMS}
Operating Frequency Range	15...400 kHz

RATIOS INTEGRATED IN THE TRANSFORMER

Ratios Available	9:1	4,5:1
	8,5:1	4,25:1
	8:1	4:1
	7,5:1	3,75:1
	7:1	3,5:1
	6,5:1	3,25:1
	6:1	3:1
	5,5:1	2,75:1
	5:1	2,5:1

MECHANICAL SPECIFICATIONS

Size (width x depth x height)	200 x 210 x 164 mm
Weight	17 kg

COOLING SPECIFICATIONS

Cooling	Water cooling (≥ 4 l/min and ≤ 5 kg/cm ²)
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ENVIRONMENTAL CONDITIONS

Environmental Temperature Range	-10°C to +40°C
Maximum Humidity	90%

MODULES COMPATIBLE

Modules	w100k400 (80% efficiency) w50k400R (95% efficiency) w12k400R (99% efficiency)
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