



HIGH VOLTAGE WATER HEATER: NEXT-LEVEL THERMAL MANAGEMENT

Revolutionizing thermal management with an innovative water heater concept



Introducing the high voltage water heater by ATT – a revolution in thermal management. At its core lies a patented spiral-shaped heating foil, made with cutting-edge printed electronics. The unique design maximizes heat transfer, ensuring efficient heating with very low pressure loss. Our heating foils have a built-in PTC effect for added safety. Outperforming the competition with its power-to-weight ratio and low pressure drop-to-power ratio, our water heater delivers quick and efficient heating.

SPECIFICATIONS

- Nominal voltage: 450 VDC up to 800VDC
- Weight: 985 g
- Heating power: 8 kW
- Interface: Lin, CAN, PWM
- Pressure Loss: 50 mbar @ 600 l/h @20°C
- Temperature Range: -40 °C to 140°C
- Dimensions (L x B x H): 240 x 130 x 110 mm

BENEFITS

- Efficient heating through patented and unique spiral design of the heating element
- Safe and reliable through built-in PTC effect
- Lightweight and powerful through a superior power-to-weight ratio
- Optimal heat transfer

CHALLENGE END USER

- The thermal management of electric vehicles requires modern and innovative solutions
- Lightweight and powerful solutions are necessary to implement efficient systems to maximize the range

CUTTING EDGE TECHNOLOGY

- Our heating foil is invented, designed, and manufactured in-house, ensuring quality and reliability.
- The heating foil is made using cutting-edge printed electronics technology, making it a unique and innovative solution.
- The patented spiral shape of the heating foil sets it apart from the competition, providing unique and efficient heating.
- The use of state-of-the-art manufacturing techniques ensures that our high voltage water heater meets the highest standards for quality and performance.

ABOUT ATT

ATT is a leading provider of surface heating systems utilizing thermoelectric heating polymers. With a focus on the Automotive industry, the company also offers solutions for Aerospace and Architecture applications. In addition to surface heating systems, ATT is continuously advancing their offerings with the development of advanced sensors including ultrathin real-time temperature sensors, hot-spot sensors for batteries, icing sensors for aircraft wings, and printable NTC sensors based on proprietary technologies.

MARKET



Mobility



Healthcare



Traditional Electronics



Furniture & Building



IoT Antennas



Industry



Consumer Goods

FURTHER READING:

<https://www.thermaltech.at/high-voltage-water-heater/>