

HF – Compact & Eco-Friendly Heating





High-Frequency Power Source for Induction Heating:
100 kHz to 500 kHz, 5 kW to 75 kW

Overview:

Compact, eco-friendly, high-efficiency power source designed for both induction and wire heating, offering precise control from 5 kW to 75 kW across 100 kHz to 500 kHz frequencies.

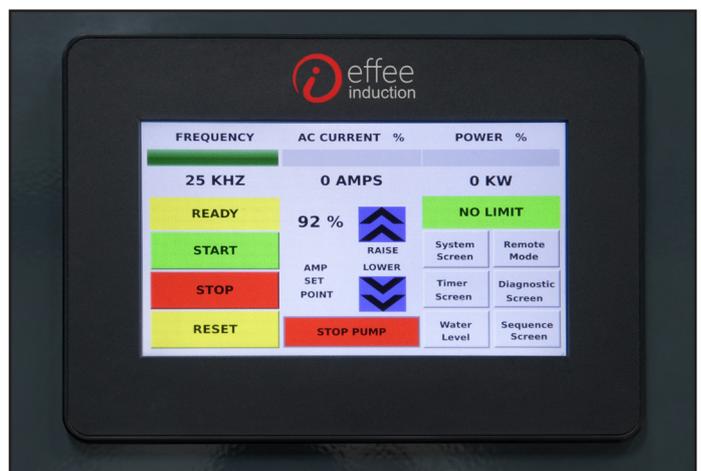
Key Features:

- **Wide Frequency Range (100 kHz to 500 kHz):**
Ideal for diverse induction heating and wire heating applications, ensuring uniform temperature control.
- **Flexible Power Options (5 kW to 75 kW):**
Scalable power configurations to suit a variety of heating needs, from small components to large-scale processes.
- **MOSFET Technology for High Efficiency:**
Advanced MOSFET technology ensures minimal losses, high efficiency, and precise control.
- **Compact & Space-Saving Design:**
Small footprint design for easy integration into tight spaces or automated systems.

- **Reliable and Durable:**
Designed for continuous operation, offering long-term reliability with minimal maintenance.
- **Efficient Cooling System:**
Advanced cooling ensures stable performance under high power loads. Water required for cooling .
- **User-Friendly Interface:**
Simple interface for easy operation, real-time monitoring, and troubleshooting.

Applications

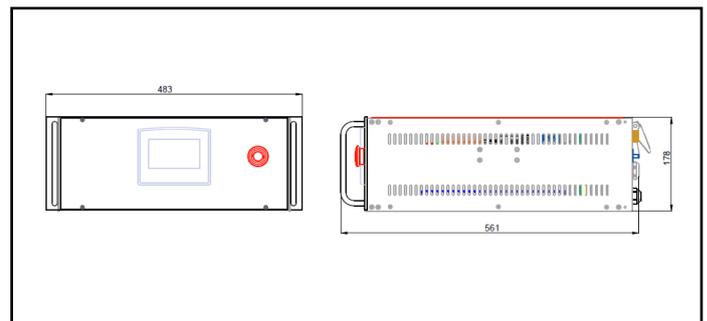
- **Induction Hardening:**
Hardens small metal parts to improve strength and wear resistance.
- **Induction Brazing & Soldering:**
Efficiently joins small metal components using electromagnetic induction heat.
- **Induction Annealing:**
Softens metals, relieving internal stresses and improving workability.



A high-efficiency, compact power source, ideal for induction and wire heating. Delivering precise control from 5 kW to 75 kW across 100 kHz to 500 kHz, the HF series ensures energy savings and top-tier performance.

Applications

- **Induction Tempering:**
Provides precise tempering for optimal mechanical properties of small components.
- **Wire Heating (Annealing, Tempering, Brazing):**
Uniform heating of wires for annealing, tempering, and brazing processes.
- **Heating Chambers for Small Components:**
Ensures uniform heating in chambers for small components, enhancing quality and consistency.



Benefits:

- **High Efficiency:**
Reduces operational costs while providing optimal heating performance.
- **Flexible Power Output:**
Customizable power options to meet a wide range of heating requirements.
- **Compact & Space-Efficient:**
Easy to install in limited spaces without sacrificing performance.
- **Reliability & Long-Term Performance:**
Continuous, stable heating with minimal downtime and maintenance.
- **Enhanced Heating Precision:**
Delivers uniform, precise heating, improving product quality and reducing waste.
- **Eco-Friendly:**
Energy-efficient operation lowers environmental impact, promoting sustainability.

Why Choose Our High-Frequency Power Source?

A versatile, reliable, and eco-friendly solution for induction and wire heating, offering high efficiency, precision, and scalability for a variety of industrial applications.



Specification	ICON HF 5	ICON HF 10	ICON HF 15	ICON HF 25
Continuous Output Power	5 kW	10 kW	15 kW	25 kW
Max Output Power	5.5 kW	11 kW	16 kW	26 kW
Output Power Regulation Range	10-100%	10-100%	10-100%	10-100%
Frequency Range	100-500 kHz	100-500 kHz	100-500 kHz	100-500 kHz
Supply Voltage Range	380-460 V	380-460 V	380-460 V	380-460 V
Frequency Line	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz
Nominal Voltage	400V 3Ph	400V 3Ph	400V 3Ph	400V 3Ph
Nominal Line Current	9 Amps	17 Amps	26 Amps	43 Amps
Maximum Apparent Power	17 kVA	28 kVA	56 kVA	84 kVA
Cooling Water Consumption	14-18 lpm	14-18 lpm	14-18 lpm	14-18 lpm
Water Inlet Temperature	Upto 32°C	Upto 32°C	Upto 32°C	Upto 32°C
Water Pressure min/max	4-6 Bar	4-6 Bar	4-6 Bar	4-6 Bar



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