

# Sinac<sup>®</sup> PM/PH

## 50 - 200 kW



The EFD Induction 'Sinac PM/PH' is a range of parallel-compensated power sources for medium- and high-frequency heating applications. Sinac PM/PH systems feature integrated Graphical User Interface.

### **Sinac increases throughput**

Fast, accurate, localized and reproducible heating patterns help ensure high productivity.

### **Sinac improves quality**

Advanced control system help ensure precise repeatability of heating cycles.

### **Sinac is kind to the environment**

No flames, no gas and minimal radiant heat mean a productive working environment. It's good for the environment too.

### **Sinac lets you do more**

Sinac's support for a wide range of coil designs lets it perform practically any heating task.

### **Sinac reduces costs**

Precise, controllable heating minimizes scrap, re-working and energy costs



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## PRODUCT FEATURES

### Benefits

- Constant power factor of 0.95 (efficiency factor of 93% at 50 kHz)
- Small footprint saves space
- Ideal for in-line integration and retrofitting
- Modular design minimizes maintenance downtimes
- Fast, no-fuss power and water connections
- Supports virtually any coil design

### Equipment highlights

- Features advanced Graphical User Interface
- Remote control via fieldbus (Profibus, Modbus) or digital and analog signals
- Easy-to-use, multi-language control touchscreen
- Clear, unambiguous fault diagnosis

### Equipment options

- Choice of power or voltage regulation
- Choice between four frequency ranges
- Automatic capacitor selection
- Available with dual power outputs
- Available with integrated capacitors
- Switching between two stations
- Leakage monitor
- Inductor grounding
- Remote maintenance service



Clear GUI screen

## APPLICATION AREAS

Sinac PM/PH is ideal for heat treatment, preheating, post-heating, brazing, shrink fitting, hardening, annealing, tempering, etc. A single system can heat material as diverse as copper, aluminum, steel, stainless steel, brass, titanium, etc. Sinac systems are used in the aerospace, defence, automotive, rail, gas, nuclear and many other industries.

## TECHNICAL DATA FOR THE SINAC PM/PH RANGE

### Output

Output nominal power (kW)	50	75	100	150 <sup>(1)</sup>	200 <sup>(2)</sup>
Output power regulation range (%)	2- 100				
Frequency range (kHz)	4 - 200				

### Supply

MF/HF maximal voltage (V)	550				
Supply voltage range (V)	3 x 400 (-5%/+20%)				
Frequency (Hz)	50/60				
Apparent nominal power (kVA) - Cos $\phi$ = 0,99	58	89	118	175	223

### Cooling

Water consumption MF - HF (3) (l/min)	20 - 44	22 - 58	36 - 60	40 - 112	40 - 136
Cooling water minimal and maximal pressure (bar)	3 - 5 (Delta P=3)				

### Footprint

Outer dimensions - W x D x H (mm)	800 x 600 x 2000				
Enclosure protection	IP 54 - NEMA 12				
Color	RAL 7035 Gris				

(1) Sinac 150 PH with 135 to 200 kHz frequency, the footprint is 1600 x 600 x 2000 mm.  
 (2) Sinac 200 PH with 110 to 160 kHz frequency, the footprint is 1600 x 600 x 2000 mm.  
 (3) MF: up to 50 kHz / HF: 50 - 200 kHz.

