

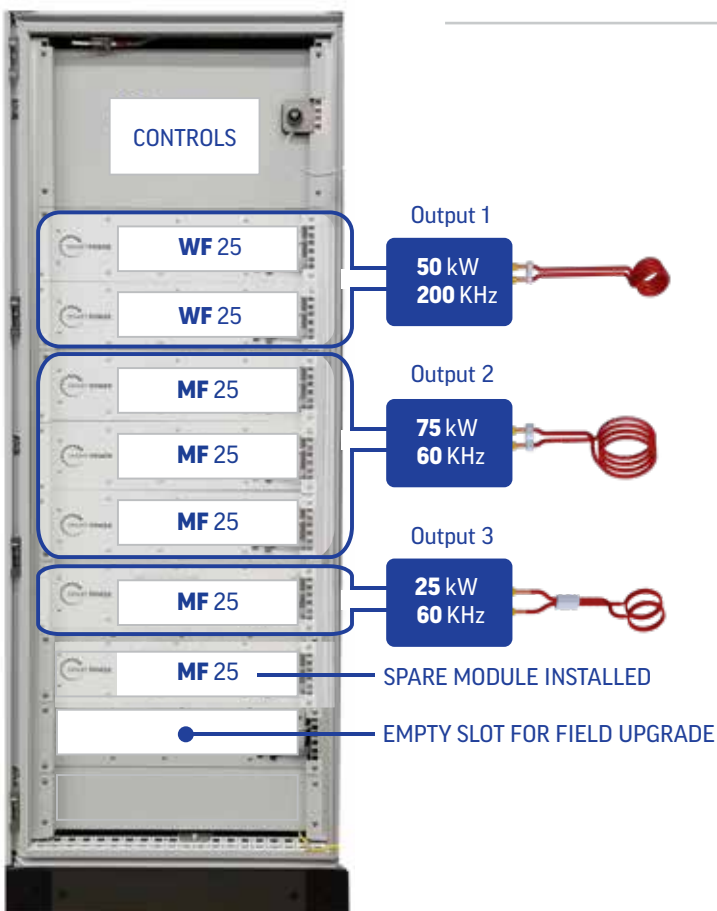


BREAKTHROUGH INNOVATION IN INDUCTION HEATING

- **CONFIGURE** YOUR POWER AND FREQUENCY RANGE
- **MULTIPLE OUTPUTS** IN ONE SYSTEM
- **UPGRADE** YOUR POWER AS YOU NEED IT
- **ZERO DOWN-TIME** OPERATION
- **ULTRA FLEXIBLE** PERFORMANCE
- **LATEST SiC** TRANSISTOR TECHNOLOGY
- **ENERGY EFFICIENT** AND COMPACT
- **LOW MAINTENANCE** COST



CONFIGURE YOUR **SMART POWER™**



POWER:
From **50 kW** to **400 kW**

FREQUENCY:
From **5 kHz** to **400 kHz**

RF OUTPUTS:
From **1** to **4**





BREAKTHROUGH INNOVATION IN INDUCTION HEATING

SMART POWER™ TECHNOLOGY IS BASED ON PATENTS PENDING, MODULAR,
DIRECT DIGITAL STEP™ CONTROL



WHAT IS **DIRECT DIGITAL STEP™** CONTROL?

- Unique modular approach where multiple RF power modules can be independently controlled or synchronized to work as one.
- Direct control of the output power with digital modulation, ensuring peak efficiency.
- RF Power inverters always run at resonance of the output network, minimizing switching losses.

ADVANTAGES, BENEFITS AND COST SAVINGS:

Configurable Power and Frequency – Systems can be reconfigured in the field for different power and frequency ranges, allowing them to be used for different applications.

ZERO production down time - The system will continue to work at full power by shutting down a failed module (if equipped with extra capacity module). Or, if no extra module is available, it will continue to operate at reduced power.

Most compact – significantly optimized size and weight saves floor space and shipping costs.

Energy savings - highly efficient system (>95%) resulting in significant energy savings over the life of the equipment.

Reduced cooling requirements - smaller cooling systems are required, and less energy is dissipated in the cooling system, resulting in additional cost savings.

Reduced maintenance cost – Modular system, easy to service and maintain.

Increased Productivity - Fast response and ramp-up time, reducing the heating cycles.

Scalable and Field Upgradeable - Capacity and productivity can be easily increased by installing additional power modules to the existing system.

Modern Controls– 10" Industrial touch panel with intuitive user interface and remote connectivity features (Ethernet, USB, RS232/485).

Process Monitoring – Built-in Temperature control and Energy monitoring software ensure excellent process control and validation.

WHY **SMART POWER™** SYSTEMS ARE SO INOVATIVE?

- Patented topology with Direct digital step™ control and advanced algorithms for controlling the power conversion at peak efficiency.
- Utilize latest switching semiconductor technology - SiC (Silicon Carbide) Transistors.
- Ultra-flexible, configurable systems
- New, innovative user interface featuring industrial touch screen panel with many user, remote control and diagnostics features.
- Industry 4.0 Compatible technology

HEADQUARTERS

158-2 Remington Blvd
Ronkonkoma, New York 11779
Tel: 631.467.6814
sales@ultraflexpower.com



ultraflexpower.com

