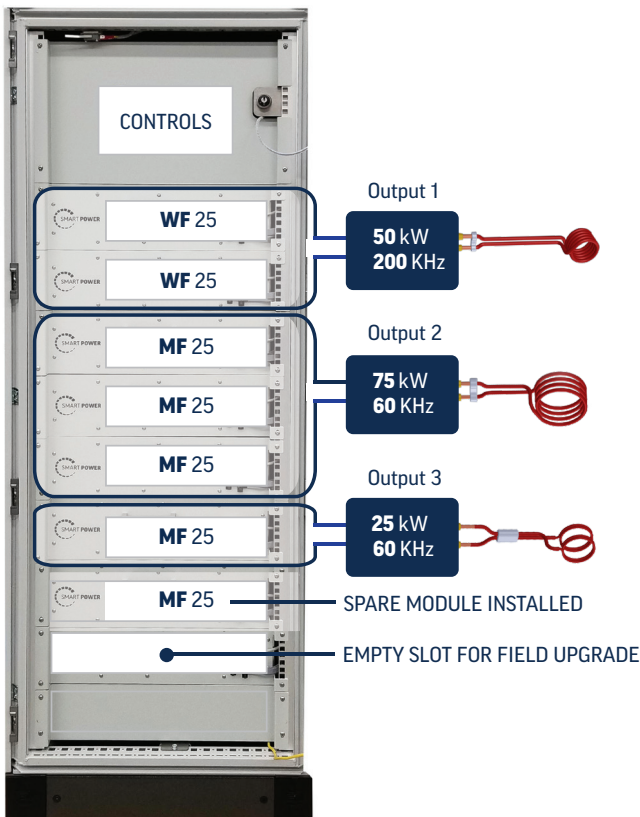


Why SmartPower™ Systems are so innovative?



- Ultraflex SmartPower™ Compac Systems are a breakthrough innovation in the induction heating technology, featuring the Direct Digital Step™ control algorithm and a unique configurable modular approach.
- Configurable and field upgradable power supplies with output power from 50kW to 400kW.
- Wide output frequency range – two ranges available from 6kHz to 60kHz and from 40kHz to 200kHz.
- Zero down time can be achieved if additional module (N+1) is installed in the system.
- Latest SiC transistor technology and proprietary digital control algorithms ensure optimal performance and maximum efficiency in a wide frequency range.
- Ultra-flexible, wide range load impedance matching by utilizing multiple transformer ratios and configurable capacitor banks.
- Configurable to work with a single or multiple, independently controlled RF outputs from one cabinet.
- Can operate with optional heat stations allowing the load coils to be placed remotely.
- Durable and reliable design with built-in tuning, safety and diagnostics features.
- Industry 4.0

FEATURES

Operation

- Precise power control from 0 to 100% of rated power
- Output regulation: Voltage, Power, Current
- Parameter Monitoring: Current, DC Volts, Output Volts, Power, Frequency
- Control modes: Automatic, Remote or Local control
- RF Amplifier modules operating in a wide frequency range (6kHz – 400kHz)
- Automatic frequency scanning and load tuning
- Fast dynamic response and ramp-up time for short heating cycles
- Variable ratio transformer for matching to a wide range of loads and coils

User Interface

- Industrial control panel – LCD touch display, full color
- Advanced and intuitive user interface
- Multiple heating programs and profiles for automatic process control
- High accuracy cycle-by-cycle energy monitoring
- Built-in temperature control and monitoring features
- Data logging of process and operating parameters

Control

- 0-10V or 4-20mA external control and remote Start/Stop operation
- Ethernet and USB connectivity for firmware upgrades and diagnostics
- RS232/485 (MODBUS) serial interface for remote control and monitoring



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.

ultraflexpower.com

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.

USA Headquarters

10 Colt Court
Ronkonkoma, New York 11779
Tel: 631.467.6814
sales@ultraflexpower.com

Europe

154 Tsvetan Lazarov Blvd.,
1582 Sofia, Bulgaria
Tel: +359 2 4802000
eusales@ultraflexpower.com

