

## Compact 5/10/20 kW RF Power Supplies

**Model 05/100**

**Model 10/100**

**Model 20/100**

- 5, 10 or 20 kW Power Output
- 50-150 kHz Frequency Range
- Internal or External Heating Station
- Local and Remote Operation
- Up to 16 Heating Programs



Our Models 5/100, 10/100 and 20/100 RF power supplies present an exciting new alternative for precision industrial heating applications.

With 5, 10 or 20 kW of output power over a wide 50 to 150 kHz operating frequency range, these models are ideal for applications such as brazing, shrink fitting, annealing, curing and tempering.

With a fully digital, compact design, these new power supplies deliver maximum reliability and repeatability in a small, 19"W (482 mm) x 17.4"D (442 mm) footprint. Each unit weighs approximately 77 lbs. (35 kg).

For process control, these models offer a choice of local or remote control operation. The large front panel MPC-1 liquid crystal display offers up to 16 different heating programs for local operation and 4 in remote control mode. Remote operations are handled through external signals.

The main benefits of these new power supplies include increased productivity and parts quality; energy savings and reduced production costs; easy to operate; full process control; environmentally-friendly process with low noise level and no toxic gases. All three models are manufactured and serviced in the USA.

The heat station is externally located. NPT connections for water cooling are conveniently located on the rear panel. The output circuit is based on a parallel tank with an impedance matching system.

Parameter controls include power and voltage regulation; the LCD also provides alarms and threshold visualization. The MPC-1 can be programmed for English, Spanish, French, German, Italian, and Portuguese.

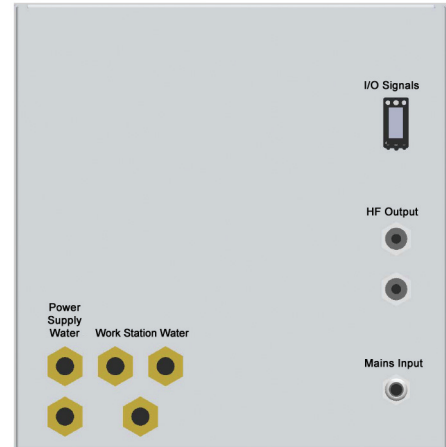
# 5/100, 10/100 and 20/100 RF Power Supplies

## Specifications

<b>Output Power</b>	5 kW, 10 kW or 20 kW
<b>Output Frequency</b>	50-150 kHz
<b>Coil Voltage</b>	300-700 V at 10 kW
<b>AC Line Power</b>	12 kVA
<b>AC Line Interruption</b>	Circuit Breaker
<b>Voltage Supply</b>	3-phase 380-480 VAC, 50/60 Hz
<b>Ingress Protection</b>	IP54
<b>Dimensions (W x D x H)</b>	19 x 17.4 x 22.83 in. (482 x 442 x 580 mm.)
<b>Weight</b>	77 lbs (37 kg.)
<b>Max Ambient Temperature</b>	113° F (45° C)
<b>Power Converter Cooling</b>	Water
<b>Max Inlet Water Temperature</b>	95° F (35° C)
<b>Min. Pressure</b>	45 PSI (3 BAR)
<b>Min. Water Flow</b>	1.85 GPM (7 liters/min)
<b>Cooling Protection</b>	internal flow switch, thermal switch
<b>Digital Inputs (+24V Optocoupled)</b>	Start/Stop, Reset, Flow Switches, Heat Program Selection, Emergency Stop
<b>Digital Outputs</b>	Ready/Fault, Heating, Energy Error, Limit

## Basic Configuration

- Fully Digital Power Converter Controller
- Local operations through display MPC-1: monochrome LCD, alphanumeric, 12.6 in. height x 9.4 in. width (320 mm. x 240 mm.)
- Parameter control: power and voltage regulation; alarm and threshold visualization
- Remote operations through external signals
- PC-USB connection. Configuration can be loaded or saved into a file
- 16 heating programs in local operation and 4 in remote operation: 9 steps time/power, time/Energy, time/T<sup>a</sup> (with pyrometer or thermocouple)
- Languages: English, Spanish, French, German, Italian, Portuguese
- External Emergency Stop signal
- Starting ramp configuration



Rear Panel Layout - NPT water connectors; bushing type for main input and HF output

## Analog Inputs (0-10 VDC)

- Power Control Nominal Value
- Temperature Sensor

## Options & Accessories

- Compact heat exchanger or chiller
- Pyrometer or thermocouple (closed-loop T<sup>a</sup> control)
- Footswitch
- Quality control system (energy monitor)
- Analog outputs (power, frequency, voltage, current; 0 to 10 V)

## Upon Request

- Field busses: PROFIBUS, DEVICENET, PROFINET, INTERBUS



Manufactured  
and Serviced  
in the USA