

ITC Designed and Manufactured
Solid State Power Supply
For Induction Heating and Melting
300 kW to 1000 kW, 100 Hz to 3000 Hz

Standard Features

- High quality design is user and maintenance friendly
- Cabinet is rugged 10 gauge steel construction
- All components are readily accessible through large front doors and end door (near furnace switches) for easy service and maintenance
- Can be flush mounted against a wall
- High Electrical Efficiency
- Single Electronic Control Board in isolated (door in door) enclosure
- Three Phase SCR controlled Electronic Circuit Interrupter shuts off power to inverter in the event of an inverter or furnace fault. This prevents the loss of expensive fuses, damage to circuit breakers and protects inverter components
- Diagnostic Circuit Monitor shows where to locate faults and indicates electronic limits
- Logic can be interfaced with PLC or temperature controller

Options

- Cabinet is set up for the addition of up to three furnace selector switches for alternate operation of multiple furnaces.
- Internal closed water system protects all power supply components from dirt and electrolysis. The system built into the power supply cools all internal components with low conductivity distilled water. The external water source cools the internal system plate type heat exchanger and furnaces.
- Cabinet can be manufactured "Right Hand" as shown or "Left Hand" (mirror image)
- Programmable Logic Controls



Power Input:460 Volt, 3 Phase, 50/60 Hz

Approximate Shipping Weight:5000 lbs.

Cabinet Dimensions:.....108 inches Wide
36 inches Deep
78 inches High

**Important Note About
Cooling Water**

Controlling water quality is the "Secret" to trouble free operation and long life of induction equipment. Severe damage from electrolysis, scaling, blockage and overheating can result from poor water quality. The best way to prevent these problems is with a *Closed Loop Water Cooling and Recirculating System* where water conductivity and cleanliness can be maintained. **ITC** can offer the correct cooling system based on your geographical location and specific usage. The proper cooling system will extend the life of the equipment, reduce down time and maintenance costs.

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