



## ITC Designed and Manufactured Solid State Power Supply For Induction Heating and Melting 100 kW to 300 kW, 1,000 Hz to 3,000 Hz

### Standard Features

- High Electrical Efficiency
- Single Electronic Control Board in isolated (door in door) enclosure
- Cabinet is rugged 10 gauge steel construction
- All components are readily accessible through large doors for easy service and maintenance
- Fast acting circuit breaker or optional Electronic Circuit Interrupter that shuts power off in the event of an inverter fault. This prevents the loss of expensive fuses, damage to circuit breaker and protects inverter components.
- Diagnostic circuit monitor shows where to locate faults and indicates electronic limits
- High quality design is user and maintenance friendly
- No rear access required - can be flush mounted against a wall
- Logic can be interfaced with PLC or temperature controller



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

Approximate Shipping Weight: ...4500 lbs. max

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

### Options

- 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 components, fuses, and damage to circuit breaker.
- Cabinet is set up for the addition of up to three furnace 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).
- Programable Logic Controls

### 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 reduce maintenance costs.