

# LOW-FREQUENCY POWER SUPPLIES

## MELTING FURNACES

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,  
300 kW to 1000 kW, 100 Hz to 3000 Hz

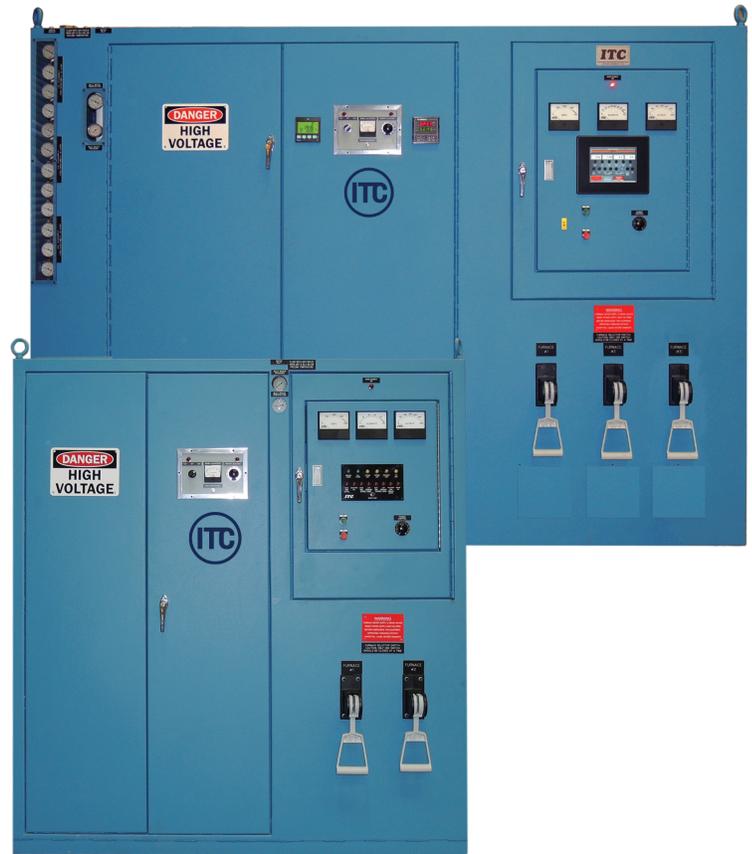
### STANDARD FEATURES

- 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

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).
- Programmable Logic Controls



### SPECIFICATIONS

	300 kW to 1000 kW
Power Input	460 Volt, 3 Phase, 50/60 Hz
Approximate Shipping Weight	5000 lbs. / 2 267 kg max
Cabinet Dimensions	108 inches (274 cm) Wide 36 inches (91 cm) Deep 78 inches (198 cm) High



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## OPTIONS - 100 kW to 300 kW

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## 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.

## SPECIFICATIONS

	100 kW to 300 kW
Power Input	460 Volt, 3 Phase, 50/60 Hz
Approximate Shipping Weight	4500 lbs. / 2041 kg max
Cabinet Dimensions	78 inches (198 cm) Wide 36 inches (91 cm) Deep 78 inches (198 cm) High

## CONTACT US

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