

EUROPE

Interpower
INDUCTION

Power-Link™ Power Supplies



World Class Induction Heating Equipment

Introduction



Who We Are

Interpower Induction is one of the fastest growing induction heating companies in the world. Founded in Almont, Michigan in 1995 Interpower Induction provides world class induction mass heating equipment and systems with the highest level of technology available and a personal service unmatched by anyone else in the industry. This unique combination of advanced induction technology and service is a competitive advantage built into everything we provide – giving you more power to compete in your industry.

Introduction to Power-Link™

The Interpower “**POWER-LINK™**” high frequency power supplies are all solid-state units employing the latest in “state of the art” power and control electronics. The unit is specifically designed to operate in the harshest of environments and will provide trouble free operation for many years to come. The basic concept of the units employ a special type of power transistor called IGBT (Insulated Gate Bi-Polar Transistor) to allow absolute turn on and turn off, even at high operating frequencies. The ability to turn off these devices at any time during the operating cycle makes for one of the most reliable type of systems on the market today.

The control strategy allows for power, voltage or current control. The power supply can run over a wide range of frequencies, which is set by the configuration of the heat station. The units match to the different loads automatically through a method of “swept frequency”. This method also allows for maintaining a high input power factor. The unit is complete with a line disconnect switch, power components, solid-state controls and all operator controls and safety devices.

Our power supplies are based on the proven voltage source technology. As developed, it was used in induction heating applications for melting, heating for forging and heat treating of metals.

The **INTERPOWER** Solid State Power Supply is a frequency converter which uses static switching techniques to change three-phase line frequency input power into a single phase output at the required frequency. The circuit depends chiefly on the use of the IGBT, which is a semiconductor device having the ability to switch high power levels rapidly when triggered by low level control signals. In the circuit, the AC input power is supplied to a rectifier providing DC voltage. The DC is then fed to an inverter comprising a combination of IGBTs arranged to produce oscillation at the required frequency.

The gate trigger signal obtained from electronic circuitry determines the frequency of oscillation. Power control in the power supply is obtained by electronic adjustment of the buck converter current.



Interpower Induction USA

3578 Van Dyke • Almont , Michigan 48003 • USA
Phone: +1 810-798-9201 • Fax: +1 810-798-9301
Web: www.InterpowerInduction.com • Email: info@interpowerinduction.com

Interpower Induction Europe

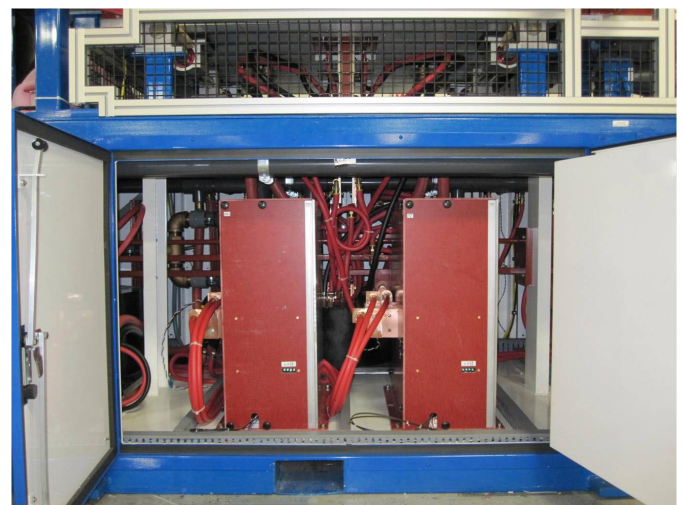
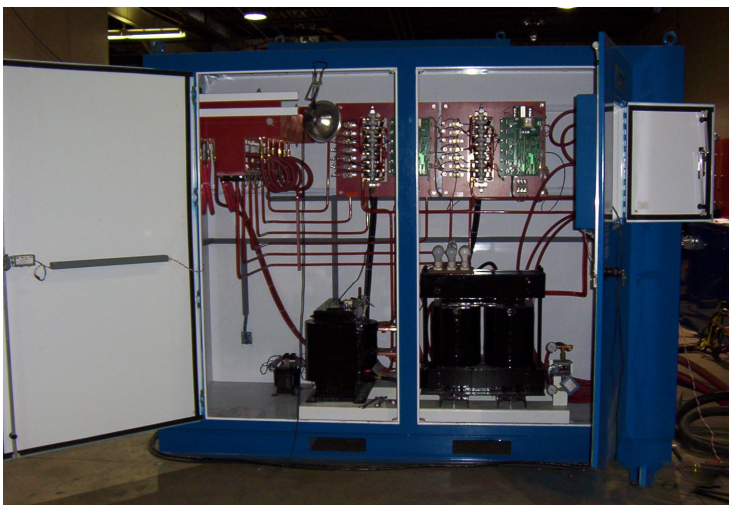
Unit E, Dunton Park • Kingsbury Road, Curdworth B76 9EB • UK
Phone: +44 1675 477 700 • Fax: +44 1675 470 645
Web: www.InterpowerEurope.com • Email: sales@interpowerEurope.com

Interpower
INDUCTION

Advantages

Advantages of the Interpower Power-Link Power Supplies include:

- Time proven IGBT technology
- Simplistic design, less components
- Robust built
- High efficiency
- Power factor of 0.95 maintained over the complete output power range
- No significant losses when the inverter is not heating a load
- Flexible, customer driven solutions



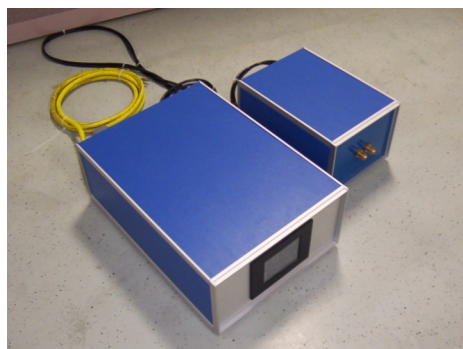
Interpower Induction USA
3578 Van Dyke • Almont, Michigan 48003 • USA
Phone: +1 810-798-9201 • Fax: +1 810-798-9301
Web: www.InterpowerInduction.com • Email: info@interpowerinduction.com

Interpower Induction Europe
Unit E, Dunton Park • Kingsbury Road, Curdworth B76 9EB • UK
Phone: +44 1675 477 700 • Fax: +44 1675 470 645
Web: www.InterpowerEurope.com • Email: sales@interpowerEurope.com

Interpower
INDUCTION

Applications

Series	Characteristics	kW	kHz	Applications
Power-Link 1.3	Low power, wide range of matching capability	10 - 100 kW	30-100 kHz	Small Billet & Bar End
Power-Link 2.0	Low frequency, higher power	1000 - 5000 kW	100 Hz - 3kHz	Billet, Bar & Tube
Power-Link 3.0	General MF applications	100 - 1500 kW	100 Hz - 10 kHz	Billet, Bar, Bar End Heating
Power-Link 4.0	Low cost option IGBT	10 - 100 kW	10 - 50 kHz	Annealing, drying, curing, coating applications
Power-Link 5.0	High frequency	200kW 200Hz 1000kW 30kHz	10 kHz - 100 kHz	Plate or wire heat treatment, hardening, tempering and annealing
Power-Link 6.0	Single full power rectifier with multiple remote inverter sections, high power	500 - 5000 kW	100 - 3000 kHz	Used for Interpower Zone Control in billet, bar and tube heating applications
Power-Link 7.0	Extremely high frequency MOSFET technology	3 - 100 kW	135 - 450 kHz	Used for all high frequency applications
Power-Link 8.0	High accuracy on output power with fine tune technology and ability to switch between mains and battery seamlessly	200 kW	10 kHz	Crystal Growing



For further information on our power supplies and to find the best power supply for your requirements, please contact us.

Interpower Induction USA

3578 Van Dyke • Almont , Michigan 48003 • USA

Phone: +1 810-798-9201 • Fax: +1 810-798-9301

Web: www.InterpowerInduction.com • Email: info@interpowerinduction.com

Interpower
INDUCTION

Interpower Induction Europe

Unit E, Dunton Park • Kingsbury Road, Curdworth B76 9EB • UK

Phone: +44 1675 477 700 • Fax: +44 1675 470 645

Web: www.InterpowerEurope.com • Email: sales@interpowerEurope.com