

# INDUCTION<sup>®</sup> HEATING PRODUCTS



UltraFlex Power Technologies

## SBT Series – 3kW / 700-1200kHz, High-Frequency Induction Systems



Power Supply Model		Output Power	Frequency Range	AC Line Voltage	Remote Heat Station
SBT Series	SBT-3/1000	3 kW	700-1200 kHz	230V, 1 Phase	HSB-3

High-frequency system suitable for heating, melting, or soldering very small parts. Advanced, efficient power supplies utilizing the latest switching power supply technology. Adaptive digital phase control provides very efficient operation in a wide frequency range.

## S and S-Air Series – 2-4kW / 20-400kHz, Water-Cooled and Air-Cooled Induction Systems



Power Supply Model		Output Power	Frequency Range	AC Line Voltage	Remote Heat Station
S Series	SMT-2/200	1/2 kW	30-200 kHz	110/230V, 1 Phase	HS-4W
	SHT-2/400	1/2 kW	100-400 kHz	110/230V, 1 Phase	HS-4W
	SMT-2A AIR	2 kW	20-100 kHz	110/230V, 1 Phase	HS-4AN
	SMT-5A AIR	4 kW	20-100 kHz	110/230V, 1 Phase	HS-4AN

Light, completely water-cooled and air-cooled units. SMT and SHT models feature an advanced 5" LCD touch screen with multiple programs, temperature control and diagnostics features. Perfect for low-temperature applications (T<500°F/260 ° C).

## SM Series – 5kW / 30-400kHz, Induction Heating Systems



Power Supply Model		Output Power	Frequency Range	AC Line Voltage	Remote Heat Station
SM Series	SM-5/200	5 kW	30-200 kHz	230V, 1 Phase	HS-4W
	SMT-5/200	5 kW	30-200 kHz	230V, 1 Phase	HS-4W
	SHT-5/400	5 kW	100-400 kHz	230V, 1 Phase	HS-n5

Compact, air-cooled power supplies with water-cooled remote heat stations. Advanced 5" LCD touch screen with multiple programs, temperature control, cycle energy monitor, data collection and diagnostics features.

## Solo and Solo Air Series – 12-32kW / 3-400kHz, Innovative Induction Heating System



Power Supply Model		Output Power	Frequency Range	AC Line Voltage	Remote Heat Station
Solo Series	SOLO10/12W	12 kW	40-200 kHz	230/380/480V, 3 Phase	HS-24W
	SOLO12H	12 kW	150-400 kHz	380/480V, 3 Phase	HS-16H
	SOLO16W	16 kW	40-200 kHz	380/480V, 3 Phase	HS-24W
	SOLO16H	16 kW	150-320 kHz	380/480V, 3 Phase	HS-16H
	SOLO24W	20/24 kW	40-200 kHz	380/480V, 3 Phase	HS-24W
	SOLO32W	25/32 kW	15-150 kHz	380/480V, 3 Phase	HS-32W
	SOLO32L	25/32 kW	3-30 kHz	380/480V, 3 Phase	HS-32L
	SOLO24 AIR	20/24 kW	5-25 kHz	380/480V, 3 Phase	HS-32A
SOLO32 AIR	25/32 kW	5-25 kHz	380/480V, 3 Phase	HS-32A	

The UltraFlex Solo Systems are a breakthrough innovation in induction heating technology, featuring a unique Direct Digital Step™ control algorithm. Compact, air-cooled power supplies, with configurable output power from 12kW to 32kW. The latest SiC MOSFET transistor technology and patented digital control algorithms ensure optimal performance and maximum efficiency in a wide frequency range (from 3 kHz to 400 kHz).

## Solo UBraze Series – 12-24kW / 50-150kHz, Mobile Brazing Systems



Power Supply Model		Output Power	Frequency Range	AC Line Voltage	Remote Heat Stations
SOLO UBraze Series	SOLO12	12 kW	50-150kHz	380/480V, 3 Phase	HS-24B
	SOLO16	16 kW	50-150kHz	380/480V, 3 Phase	HS-24B
	SOLO24	24 kW	50-150kHz	380/480V, 3 Phase	HS-24B

UBraze is a compact hand-held induction brazing system that is used as an environmentally friendly and safe alternative to the flame brazing torch. The accurate energy control allows you to work with precision and to accurately determine the time and power needed to braze each joint.

## Dragon RoboStand – 16-24kW / 50-150kHz, Automated Brazing Systems



Power Supply Model		Output Power	Frequency Range	AC Line Voltage	Reach Radius
Dragon 16	SOLO16	16 kW	50-150kHz	380/480V, 3 Phase	up to 80/130 cm
Dragon 24	SOLO24	24 kW	50-150kHz	380/480V, 3 Phase	up to 80/130 cm

Dragon 16/24 can automatically and consistently braze multiple joints located in predefined positions in an assembly. Brazing alloy rings are assembled onto the joints prior to the brazing process. The robotic system is pre-programmed to move to each joint and to apply power for a pre-programmed time to ensure a repeatable and reliable brazing process.

The system can accommodate different production line speeds and multiple assemblies. It can be equipped with an optional vision system, capable of recognizing a variety of assemblies and positioning the brazing coil always at the correct joint location.

## SmartScan™ – 50-400kW, Induction Heat Treating Scanner



System Model	Output Power	Frequency Range	AC Line Voltage	Scanning Length, Inch (cm)	Rotation Speed (max), RPM
SmartScan™	50-400 kW	5-250 kHz	380/480V, 3 Phase	59 inch / 150 cm	200
SmartScan™ Mini	50-400 kW	5-250 kHz	380/480V, 3 Phase	10 inch / 25 cm	150

SmartScan™ is a flexible and versatile induction heat treating scanner that can be configured to perform a variety of heat-treating processes such as hardening, quenching, tempering, and normalizing. It can be configured to operate as a single or dual spindle unit and can accommodate a wide range of part sizes and weights.

## SmartPower™ – 50-400kW / 6-400kHz, Induction Modular Compac System



Power Supply Model		Output Power	Frequency Range	AC Line Voltage	RF Outputs
SmartPower™ Compac	USPC-1-M/XX*	50-200 kW	6-60 kHz	380/480V, 3 Phase	Single
	USPC-2-M/XX*	50-200 kW	6-60 kHz	380/480V, 3 Phase	Dual
	USPC-4-M/XX*	50-200 kW	6-60 kHz	380/480V, 3 Phase	Quad
	USPCD-1-M/XX*	50-400 kW	6-60 kHz	380/480V, 3 Phase	Single
	USPC-1-W/XX*	50-200 kW	40-200 kHz	380/480V, 3 Phase	Single
	USPC-2-W/XX*	50-200 kW	40-200 kHz	380/480V, 3 Phase	Dual
	USPC-4-W/XX*	50-200 kW	40-200 kHz	380/480V, 3 Phase	Quad
	USPCD-2-W/XX*	50-400 kW	40-200 kHz	380/480V, 3 Phase	Dual

\* The SmartPower™ systems are built with 25kW modules that can be configured from 50kW to 400kW and 6kHz to 400kHz

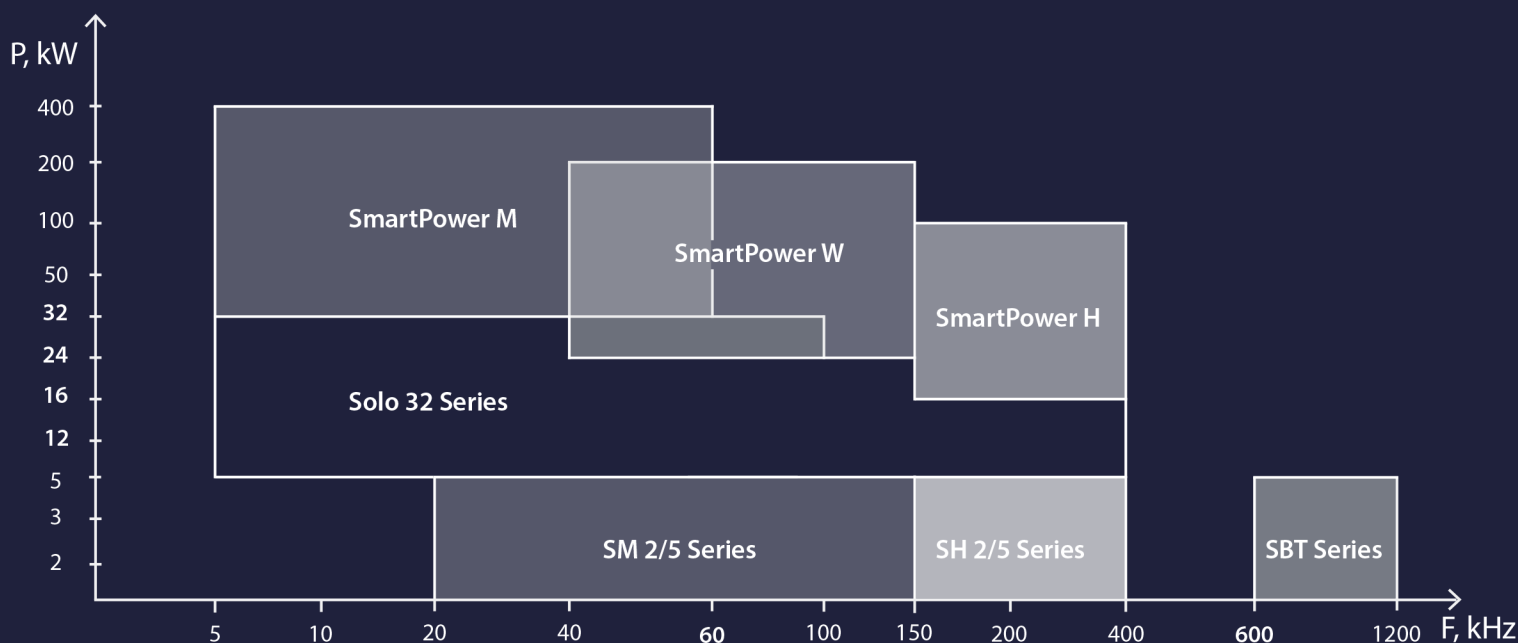
An innovative, breakthrough technology utilizing the newest SiC semiconductors and patents pending Direct digital step power control. Modular design can be configured to deliver power between 50kW and 400kW in 25kW steps and in two wide frequency ranges from 6kHz to 60kHz and from 40kHz to 400kHz. Can be configured to operate with a single output or multiple, individually controlled outputs from one cabinet.

## About UltraFlex Power Technologies

UltraFlex Power Technologies, a New York based corporation, provides induction heating, melting, and casting systems worldwide.

UltraFlex offers the most advanced and innovative digitally-controlled induction heating technology in the industry. The flexible output circuits and adaptive tuning power supplies feature the widest load matching and frequency ranges on the market. This ensures varying load conditions can be precisely matched to the equipment, which maximizes operating efficiency, process control and reliability.

For OEMs, UltraFlex offers full systems, power supplies, modules, or components to best meet the requirements for an integrated equipment solution. The UltraFlex engineering team has extensive technical expertise in power electronics design, including the development of custom systems for induction heating and power electronics applications.



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