

# SOLO SYSTEM SERIES

12-32kW/3-400kHz

EFFICIENT POWER FOR  
INDUCTION HEATING



## FEATURES

- Precise power control from 0 to 100% of rated power
- Output regulation: Power or Current
- Parameter Monitoring: Current, DC Volts, Output Volts, Output Power, Frequency
- Industrial control panel – 5" LCD touch, full color
- Advanced and intuitive user interface
- Multiple heating programs and profiles for automatic process control
- 0-10V or 4-20mA external control and remote Start/Stop operation
- USB connectivity for firmware upgrades
- Control modes: Automatic, Remote or Local control
- Automatic frequency scanning and load tuning
- Fast dynamic response and ramp-up time for short heating cycles
- Remote Heat station with a variable ratio transformer and a configurable capacitor bank for matching to a wide range of loads and coils
- Built-in temperature control and monitoring features
- Data logging of process and operating parameters
- RS485 (MODBUS) serial interface for remote control and monitoring

## BENEFITS

- Improved energy efficiency
- Greater process control while eliminating operator variability
- Low maintenance requirements
- Increased productivity
- Increased repeatability

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). Ultra-flexible, wide range of load impedance matching by utilizing multiple transformer ratios and configurable capacitor banks. Durable and reliable design with built-in tuning, safety, and diagnostics features.

## APPLICATIONS

Brazing, Shrink Fitting, Annealing, Hardening, Carbide Tipping, Curing, Forging, Bonding, Heating, Material Testing, Plastic Reflow, Susceptor Heating, Nanoparticle Research.

## HEADQUARTERS

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## SOLO Models

System model	SOLO 10	SOLO 12	SOLO 16	SOLO 24	SOLO 32
Output kW	12kW	12kW	16kW	24kW	32(25*)kW
Power Supply Part Number	0UPT-540-100-10	0UPT-540-100-12	0UPT-540-100-16	0UPT-540-100-24	0UPT-540-100-32
AC Line Volts (50/60Hz)	380/480V ±10%	230 V ±10%	380/480V ±10%	380/480V ±10%	380/480V ±10%
Line Phases	3	3	3	3	3
Weight Lb (kg)	44 lb. (20 kg)	44 lb. (20 kg)	44 lb. (20 kg)	44 lb. (20 kg)	44 lb. (20 kg)
Dimensions Inch (mm) WxDxH	15.7" x 12.4" x 16.1" (400 x 314 x 409)	15.7" x 12.4" x 16.1" (400 x 314 x 409)	15.7" x 12.4" x 16.1" (400 x 314 x 409)	15.7" x 12.4" x 16.1" (400 x 314 x 409)	15.7" x 12.4" x 16.1" (400 x 314 x 409)
Compatible Heat Station	HS-16H, HS-24W	HS-16H, HS-24W	HS-16H, HS-24W	HS-24W	HS-32W, HS-32L

## Heat Station Model

Heat Stations Models	HS-24W	HS-16H	HS-32W	HS-32L
HS Part Number	1ACC-540-100-02	1ACC-540-500-02	1ACC-540-200-02	1ACC-540-300-02
Frequency kHz	40-200	150-400**	15-150	3-30
Weight Lb (kg)	35 (16)	35 (16)	44 (20)	44 (20)
Dimensions Inch (mm) WxDxH	9.1" x 16.7" x 8.1" (232 x 425 x 208)	9.1" x 16.7" x 8.1" (232 x 425 x 208)	15.4" x 14.4" x 9.8" (390 x 410 x 256)	15.4" x 14.4" x 9.8" (390 x 410 x 256)
Cooling requirements	water	water	water	water
Min. Cooling Water, GpM (LpM)	2(8)	2(8)	2(8)	2(8)
Inlet Water T° (max),F (°C)	95°F (35°C)	95°F (35°C)	95°F (35°C)	95°F (35°C)

\*Derated if operating at 380-400VAC Line Voltage

\*\*Derated to 320kHz above 12kW



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