

PAS

PLASTIC ASSEMBLY SYSTEMS

Dynamic Process Controller™ (DPC)

ULTRASONIC GENERATOR/POWER SUPPLY



FEATURES

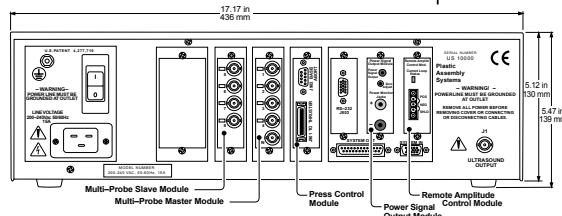
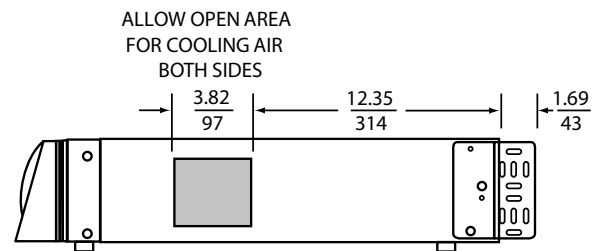
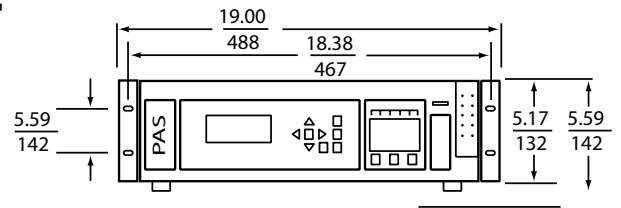
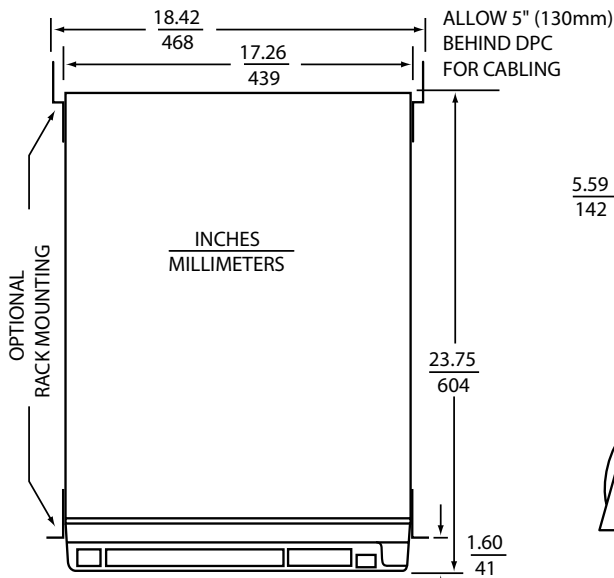
- Retrofittable to existing ultrasonic probe/press systems to bring precise control and monitoring features to applications already in production.
- Timer Module option provides weld time and hold time control and stores up to eight setup files.
- Press Module option controls a Dukane ultrasonic press.
- Power Signal Module option enables weld-by-energy mode.
- Multi-Probe Control Module (MPC) options permit one DPC to handle up to eight probes in an automation environment.
- Plug and Weld system recognizes modules as they are added or removed from system.
- Process Control Menu automatically reconfigures itself to accommodate added modules.
- ISO9001 Certification assures you of the highest quality and PAS's commitment to continuous improvement.
- User Selectable parts limits – Suspect or Bad.
- PAS Exclusive one touch hot keys for quick programming of weld control.
- Hot Key One Touch digital amplitude control in 1% – increments 100-40%.
- End of Weld ground detect standard.
- Modular component design maximizes product flexibility and cost effectiveness by allowing the selection of various power levels and process control features.
- Standard 19" (48cm) rack mountable unit for easy system integration at minimal cost.
- Universal IEC 320 power cord receptacle accommodates most worldwide power requirements.
- Auxiliary outputs such as cycle activation provide easy system integration with automated machinery and PLCs.
- Power display for checking acoustic stack characteristics
- System power output indicates normal or possible over load operating condition during the weld cycle.
- System status panel displays any of six self-diagnostic messages, including Fault, Input Test, Overload, On Line, Overtemperature, or Off Line

WE SUPPLY SOLUTIONS!

**THERMAL ASSEMBLY EQUIPMENT • SPIN WELDERS • ULTRASONIC WELDERS • VIBRATION WELDERS
HOT PLATE WELDERS • CUSTOM ASSEMBLY SYSTEMS • PRE-OWNED EQUIPMENT**

GENERATOR

- Patented Pulse-Width Modulation design delivers power more efficiently with substantially less stress on the electrical components for superior performance, reliability, and extended service life
- Unique Linear Ramp Soft Start *accelerates* the transducer and tooling up to operating amplitude eliminating mechanical and electrical starting stress
- AUTO-TRAC tuning using phase lock loop technology automatically locks the generator to the resonant frequency of the transducer and tooling even under varying conditions of temperature and loading
- PAS exclusive FLOW-THROUGH COOLING provides on demand thermostatically controlled cooling system that separates electronic components from the cooling air flow chamber
- Electronic overload protection prevents component failure, reducing costly downtime
- Advanced transformer and inductor designs increase efficiency and reliability of electronic components
- Line regulation compensates for line fluctuations assuring consistent amplitude
- Load regulation assures constant amplitude at various loads improving assembly consistency
- Universal Voltage Input automatically compensates for line voltages between 90-130, or 180-260 volts



Electrical Requirements

90–130 Volts AC, 50/60 Hz or 180–260 Volts AC, 50/60 Hz
 (Input Power Requirements vary with Frequency Output and the Rated Power of the Generator)
 Approximate Weight — 40 pounds (18.2 kg)
 Shipping Weight — 50 pounds (22.7 kg)

MODELS

POWER / FREQUENCY	100 W	150 W	350 W	500 W	700 W	1000 W	1200 W	1500 W	1700 W	2200 W
20 kHz				2050			2120		2170	2200
30 kHz								3150		
40 kHz			4035		4070	4100				
50 kHz		5015								
70 kHz	7010									

Note: All specifications are subject to change without notice. Please consult PAS Ultrasonics for any updated information.



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