

# Ultrasonic Welding Generator

## **Technical Specification**

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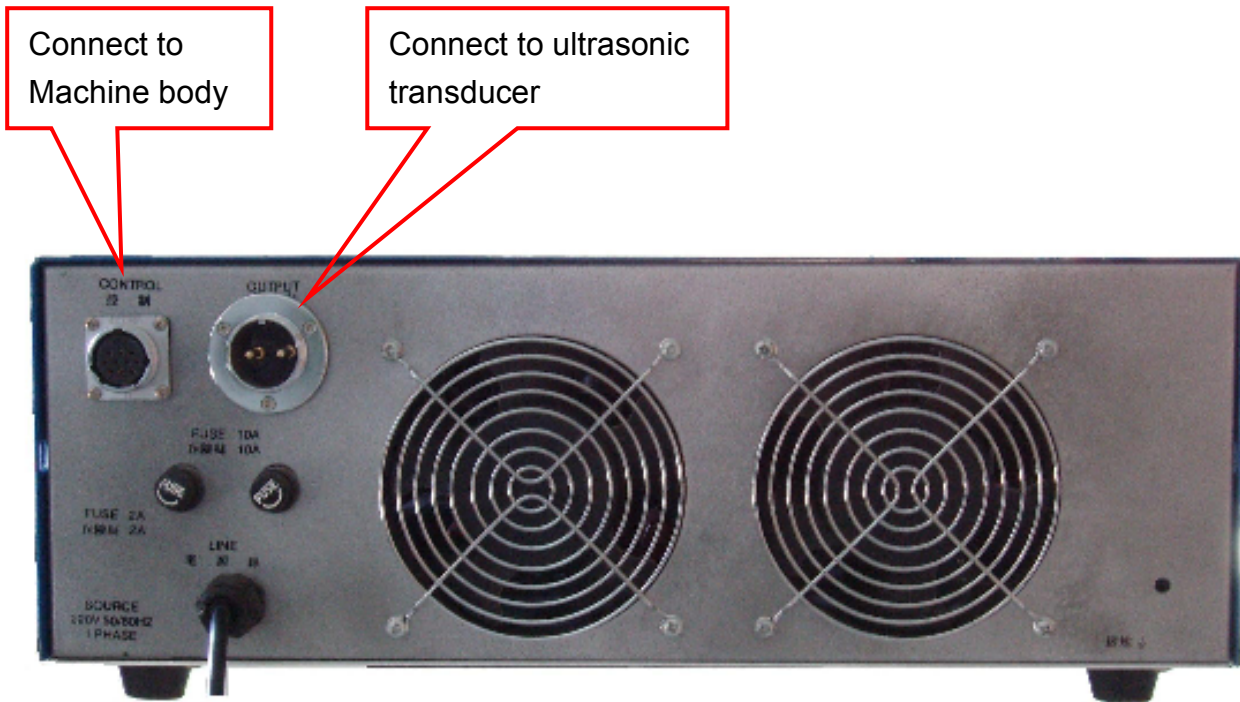
## PWUG - Ultrasonic Welding Generator

### Specifications

Standard Output Power	1400W, 1800W, 2600W, 3000W, 4200W
Input Voltage	220V ~ 230Vac $\pm 10\%$
Operating Frequency	15KHz, 20KHz,
Indication	Power amplitude loss indication. Amplitude overload indication. Power ON/OFF indication.
Overload Protection	Thermal overload Current overload Over Voltage
Control Setting	Digital timer for welding time control. Digital timer for hold time control. Digital timer for delay time control. Frequency check button. Frequency tuning adjustment knob.
Operating Temperature	0 ~ 50°C
Operating Humidity	0 ~ 80%
Dimensions	590mm (L) x 435mm (W) x 170mm (H)
Weight	19kg



**Generator Front Side**



**Generator Back Side**

## **Operating Identifications**

### Power switch

To control the main power ON/OFF of the generator with light indication.

### Power Indication

To indicate the main power status.

### Voltmeter

To indicate power amplitude loss of the transducer.

### Amplitude overload indication

To indicate the overload of the transducer during operation.

### Digital Timer

To control 3 timing parameters.

- 1) To control the welding time. ( The time to produce an ultrasonic power for welding. )
- 2) To control the delay time. ( The delay time to produce an ultrasonic power after the horn reached to workpiece. )
- 3) To control the hold time. ( The time to keep the horn stay on the workpiece after welding time. )

### Osc. Check Button

To temporarily check the transducer output status as well as the power transfer condition.

### Frequency Tuning Knob

To fine tune the output frequency of the generator in order to set an optimum frequency between generator and transducer.

## **Operating Procedure**

- 1) Connect the output power cable from generator to transducer
- 2) Connect the control power cable to the welding machine.( if included )
- 3) Connect the generator power line from the mains. Be sure the line voltage should be 220V ~ 230Vac  $\pm 10\%$ , 50/60Hz
- 4) Switch "ON" the main power switch. A power indication is lighted.
- 5) Set the power control level to the minimum.
- 6) Press the "Osc Check" button to verify the power output loss level by monitoring the indication shown on voltmeter. ( Be sure not to continuously press this button over 3 second ).
- 7) Set the frequency tuning screw in order to adjust the power loss shown on voltmeter to a minimum level.
- 8) Control the power level as well as other setting parameter on machine body ( if included ) to meet different welding condition.

### **Remark :**

- 1) This generator is subjected to be used together with transducer and machine body to form a complete welding system. It is not recommended to be used for a non-skillful people and without relatively technology..**
- 2) This generator is subjected to be used for ultrasonic plastic welding application with an intermittent welding operation. It is not advised to be used for continuously welding output operation.**

## **Safety Precaution**

- 1) Read all the operating instructions before use the products.
- 2) Do not try to dismantle the generator during operation.
- 3) Ensure the power to generator should be dis-connected before connecting wires from generator.
- 4) To ensure the generator working at specified rated voltage.
- 5) Periodically cleaning up all the dust condenses on the ventilation fan and on the top of PCB by using vacuum or jet air method.
- 6) Prevent the generator working in a high humidity and high corrosive environment.
- 7) To avoid damage the generator. Never place it on an unstable stand or subject to a vibration environment.
- 8) The generator should be ground with ground line to prevent electrical shock.
- 9) To ensure the generator working with corresponding power rating of transducers. Any mismatching between generator's power and transducers' power will result under load or overload.

## **Limited Warranty**

- 1) All generators and transducers provide one year limited warranty from date of purchase.
- 2) During the limited warranty period, we will repair or replace any defective parts resulting from normal operation condition. Any misuses and external reason to cause the failure of the parts will be charged as replace or repair.
- 3) All the replacement, maintenance or repairing service will be limited to specific area without additional charge on transportation cost. If the area outside the Guang Dong province , Hong Kong and Macau, an additional charge will be imposed.
- 4) All the generators and transducer units had been tuned and tested over 100 hours before shipment to ensure the function. Any alternation or modification on the unit after shipment will void the warrantee agreement.

Note : We reserve the right to change the specifications of products to improve or upgrade the performance without priority notification.

**End**