

SIZE:104\*145mm

**Instruction manual of generator**

1.It will show current X.XXA on display when you turn on the generator ;If generator is at the normal connection with upper computer.(PC or PLC and other 758 communication device) .A will twinkle twice at a second, if there is no twinkling, there is no communication or communication is abnormal.

2.Keep pressing F/I, there are four optional mode like current/frequency/mode/communication address.

1) **Current displaying:** XXA, A is ampere, it is basic unit of current.

2) **Frequency displaying:** FXXX or FXX.X, F is frequency. When it is lower than 99.9K,it will show a number after a decimal point. If it is higher than 100K, it will show the number to the unit.

**Mode display:** Three condition is included

**Timer mode:** Showing TXX.X, the unit is minute, after a decimal point, it is 0.1 minutes per unit, that means 6 seconds per unit. Through UP and DOWN button, time can be set. Pressing "TIME" button, the generator will count the time for working and it will stop when time is at zero until restart the machine or press "TIME" button again for resetting.

**Always on mode:** Showing ON, pressing "TIME" and "+" button at the same time for choosing this mode.

**Remote control mode:** Pressing "TIME" and "-" button at the same time for choosing this mode.If generator stay at always on mode or remote control mode, you need to pressing "+" and "-" button at the same time for switching time setting mode.

**Power adjusting:** rotate the power adjusting knob.Left side is for weaker power. Right side is for stronger power.

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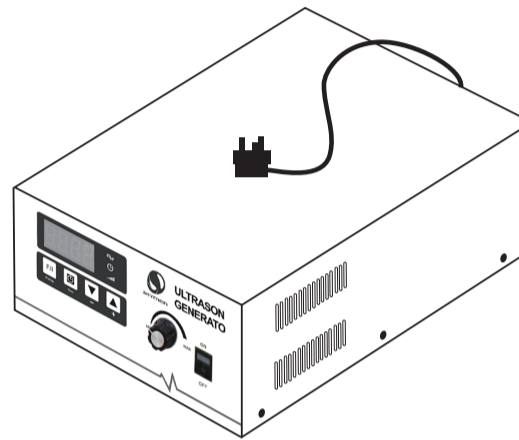
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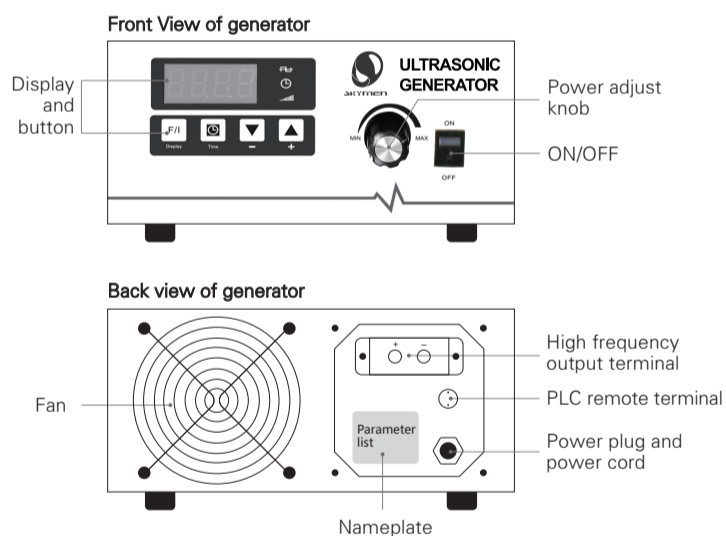


**ULTRASONIC GENERATOR**  
INSTRUCTION MANUAL >>



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**Function and button instruction**



**Power switch:**cut in or cut off input power; When switch stay at "ON" and the light of switch is on, then the input power is normal.

**Display and button:**showing working condition and set timer for generator

**Power adjust knob:** turning left is for weaker power,turning right is for stronger power. Power can be adjusted through power adjust knob.

**High frequency output terminal:** left side is positive,right side is negative, wrong position is not acceptable.It will have possibility for electric leakage or no output power if you connect the wrong side.

**PLC remote terminal:** This terminal is optional and has two output cable. You will only get output when the terminal is short circuit.

**power plug and power cord:** connecting power through plug.Power will be supplied to generator.

**Fan:** Cooling system for internal part of generator. It can ensure the reliability of parts.

**Nameplate:** showing main electrical parameter like frequency,power, input voltage. Please operate generator under these condition or it will damage the generator.

**Instruction of other function on generator**

• **Frequency tracking:** If the difference of Transducer frequency stay at the range of  $\pm 1.5\text{KHZ}$ ,generator can match the difference automatically without adjusting frequency.

• **Current stable ring:** The generator has stabilizing circuit loop so Current will be stabilized at the named parameter ( $\pm 0.1\text{A}$ ), no matter at the condition of overload or the change of water temperature and power supply. It is a key for stable cleaning.

• There is EMI circuit in the generator and Power is adjusted by phase-shifted full-bridge technology. So it can make the influence from outside at lowest level. Comparing to traditional Thyristor tuned circuit, it can totally solve the problem of serious surge current and serious conduction disturbance and radiation disturbance caused by surge current under 90 and 270 degree phase position.

**How to deal with and repair common problem**

**Display doesn't work when you turn on generator:**

- Check the light of switch, if the light is on, the power supply will be good then you need to check power supply.
- Check the fuse ,if it is broken,please check if transistor have any damage.(if foot 2 and foot 3 are short circuit, transistor is damaged.)
- Changing fuse and transistor,turn on the machine,if fuse get broken again, the singal or driving part is having some problem, you need to change new generator.
- If fuse and transistor is working correctly, please check if there is any problem on the display.
- If fuse,transistor and display are normal, please check if there is any problem on transformer of auxiliary supply.

**No output:**

- Please check If load is connected well
- Please check if remote control terminal is connected well.(Remote control must be short circuit when there is output.) If there is time setting function on the generator, please check if timer is on.
- Please check if every cable is well connected to mainboard.

**Electrical specification**

- Input power: 110VAC/220VAC $\pm 10\%$
- Ultrasonic power:50X Transducer numberX90%

**Remark:** Ultrasonic cleaning is working through high frequency vibration transferring in the liquid, so dirt will come out when water wave is changing during cleaning process. Therefore, when design ultrasonic driving, we will not use 220V Electrical capacitance after rectification to smoothing.That means the VPP is changing at the two side of transducer so power of transducer is lower than standard power.