

High Power Ultrasonic Generator



This high power ultrasonic generator uses an independent cooling system and integrated wiring scheme, including power supply to ultrasonic generators, ultrasonic HF cable, control system and communication bus to ultrasonic generator etc. Only 1 cabinet can drive the whole high power ultrasonic cleaning tank. Easy to install, operate and maintain. High power ultrasonic generator is very stable.

1. High Power Ultrasonic Generator Introduction

This high power ultrasonic generator uses an independent cooling system and integrated wiring scheme, including power supply to ultrasonic generators, ultrasonic HF cable, control system and communication bus to ultrasonic generator etc.

Only 1 cabinet can drive the whole high power ultrasonic cleaning tank. Easy to install, operate and maintain. High power ultrasonic generator is very stable.

More importantly, high power ultrasonic generator avoids the problems caused by generator placement, wiring and heat dissipation in the conventional solution. This high power ultrasonic generator is developed with the new technology and with full-bridge phase shift, constant power output, automatic frequency chasing and automatic impedance change. It can further improve the adaptability of the generator for different working conditions stability.

2. High Power Ultrasonic Generator Parameter (Specification)

Ultrasonic driver ideal for ultrasonic application

1-24 movement ultrasonic cabinet generator, according to your applicable situation to plan a reasonable plan. Please specify the transducer model, transducer quantity, transducer capacitance and working voltage when placing order.

If you are interested in further details and applicability of the generator, please contact us at clangsonic.com

No.	Item	Content
1	Model	CTU-24-2028
2	Ultrasonic Generator Quantity	24PCS
3	Ultrasonic Generator Model	TU PCB
4	Ultrasonic Working Frequency	28kHz
5	Power Supply	415VAC/50Hz (3 Phase 5 Wire Star Connection Recommended)
6	Output Power	48KW
7	Control Way	Local Control/External Control
8	External Control Voltage	+24VDC
9	External Control Current	>500MA
10	Communication	RS485 MODBUS RTU
11	Environment Temperature	-10~40°C
12	Dimension	600x600x2100mm

3. High Power Ultrasonic Generator Features and Application

1. Industrial level LCD display supporting parameters setting and status monitoring.
2. Remote control, connectable to PLC and good HMI man-machine Interaction Interface
3. High-frequency connector or CE connector (US , EU or standard type)
4. Full automatic frequency control, self-adaptive wideband sweep and load adaptive
5. 19 inch network standard cabinet which can include 24pcs PCB module at most
6. Times peak power technology which has better cleaning effect to stubborn stains.
7. Independent module slot design, plug and play
8. Well heat dissipation design to effectively ensure cooling of generator modules and cabinet, internal protection for over current, over voltage and short circuit.
9. Ultrasonic power adjustable and ultrasonic frequency, working current etc can be readable, integrated easily into existing system

10. Safety protection measurement for each generator module
11. Internal strong and weak electric integrated wiring scheme, convenient for on-site installation
12. Maximum ultrasonic power for single PCB module is 2000W
13. Support RS485 MODBUS RTU communication, helping build industrials 4.0
14. 150 ° C standard for inductive transformers and vacuum impregnation is adopted for wire package
15. The circuit board is made of four layers of 2OZ copper and 40A design standard for power part
16. Capacitor adopts WIMA, TDK brand, 50A Infineon power tube
17. IGBT full bridge phase shift technology, support dual frequency output.
18. Frequency sweep function which can effectively eliminate stand wave and improve ultrasonic performance.
19. Support TU/TD PCB Installation, automatic frequency-tracking and constant power output

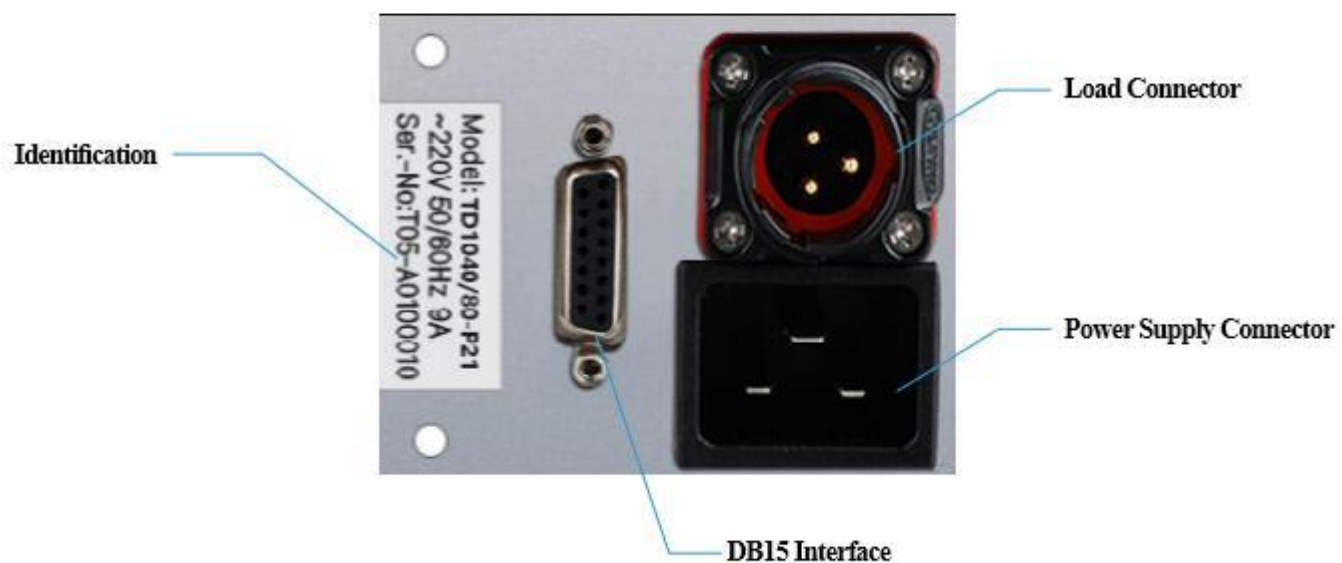
4. Details Images

temp: temperature alarm indicator light

err: generator error indicator light

on/off: ultrasonic working indicator

Back Panel

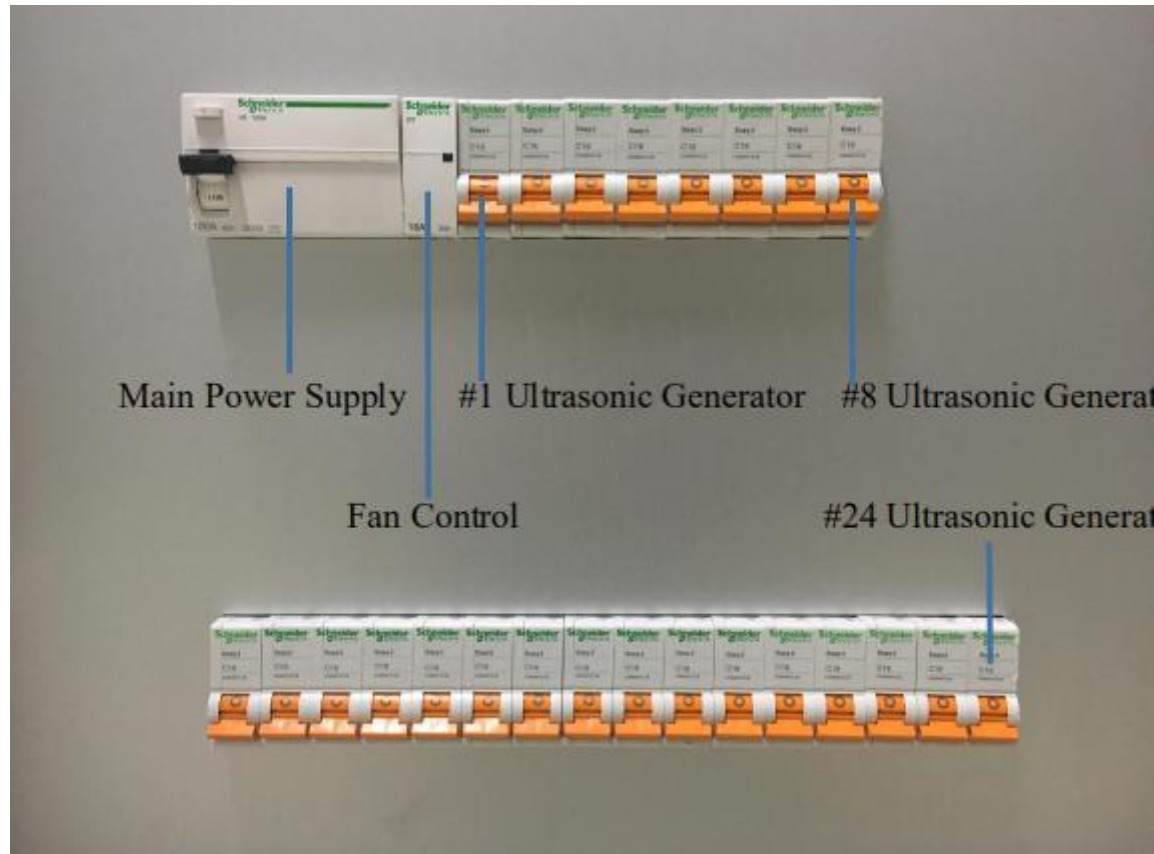


Back Panel

Load connector: Connect to ultrasonic transducer

Power supply connector: Connect to main supply

DB15 interface: Connect to control signal wire



Power Supply Control Panel

3 Phase 5 Wire Star Connection is recommended. The phase lines and neutral line needs copper wire with diameter no less than 16mm². Power supply inlet port is reserved on the back panel of cabinet, please connect the relevant wires to the port.

If there is control switch connected to power supply, please use 100A/3P miniature circuit breaker or molded case circuit breaker.



No.	Button	Function
1	Start/Stop	Ultrasonic Start/Stop, Toggle Button
2	Emergency	Device Stop Working After This Button Pressed
3	HMI	Used For Data Monitoring, Parameter Setting and Centralized Power Adjustment

Cabinet Front Panel

This HMI is installed in the middle of the front of this device, powered by 24VDC.

The communication port is connected to 24pcs TU PCB via RS485. The status and parameters can be monitored

5. Company Qualification

clangsonic

Yuhuan Clangsonic Ultrasonic Co., Ltd. is a professional engaged in ultrasonic transducer, ultrasonic shock box, ultrasonic (generator) power and ultrasonic equipment research and application of the manufacturer.

Since 2003 the company since its establishment, unswervingly adhere to the higher quality and better service as our ultimate goal.

Our products are exported to the world more than 40 countries and regions. To provide customers with a full range of ultrasonic products and solutions, so that waves of the company to become a global customer real partners.



The company has an effective construction area of over 6,000 square meters, with imported Tian Tian, Baichao sheet metal bending machine, KUKA robot, as well as the Swedish fuse factory, and CNC sawing machine, CNC lathe, CNC milling machine and other equipment, making the product more reliable.

Visit Factory



Workshop



Exhibition





6. Deliver, Shipping and Serving

Export carton & wooden box & waterproof bag and other required package for Clangsonic ultrasonic generator



CLANGSONIC

Shipping & Payment

Started working again,Started working again,Started working again.



7. FAQ

(1) Delivery time

Standard products can be delivered within 7 working days. Customized products depend on the design, customized products are based on the order quantity.

(2) Payment method

1. T/T
2. L/C
3. D/P
4. D/A
5. West Union

6. Paypal
7. MoneyGram
8. Escrow

(3) Warranty

100% brand new when leaving the factory. The seller guarantee quality of the products (excluding wearing parts) for a period of 2years from the date of trial run finish under our technician's guidance. If any quality problem within warranty, we'll provide free spare parts or repairing service.

Clangsonic provides 18 months warranty from the date of factory under normal use. The manufacturer shall not be responsible for any direct or indirect loss, compensation and repair due to improper use, installation, misuse or abnormal temperature, dust and corrosive atmosphere etc.

Below are not covered by Warranty:

1. Cavitation erosion on ultrasonic tank or surface of submersible transducer, which is a normal phenomenon during ultrasonic cleaning
2. Damage caused by abuse, improper installation, alternation, overload or neglect of precautions during the warranty, the device will be repaired or replaced by professional. Clangsonic reserves all the right.

(4) Our Services

Multiple single frequency and multiple frequency ultrasonic generator are available the model can be used for reference, and the ultrasonic transducer with different power and frequency can be customized according to your specific use or size.

OEM, ODM and Customization

(5) Do you accept customization?

Yes, we have professional R&D teams to respond your special requirements quickly.

(6) Can we tune the generator by ourselves?

We will tune the generator to the optimum resonant status before factory. It's forbidden for user to modify the parameters without Clangsonic's authorization. Unauthorized modifications may damage the devices or result in un-tuning between ultrasonic generator and ultrasonic transducer. And these are also not covered by warranty. Any question please contact us.