

# K&M Technologies Ltd.

Add: No.171, Hua'an Road, Huaqiao Town, Kunshan



Email: mfrlucy@vip.163.com  
Tel: 0512-50743727  
WeChat: +86 15850300139  
WhatsApp: +86 15850300139  
Web: [www.plasticjoining.net](http://www.plasticjoining.net)  
[www.ultrasoundwelder.com](http://www.ultrasoundwelder.com)



# Ultrasonic Generators Catalog





PART  
1

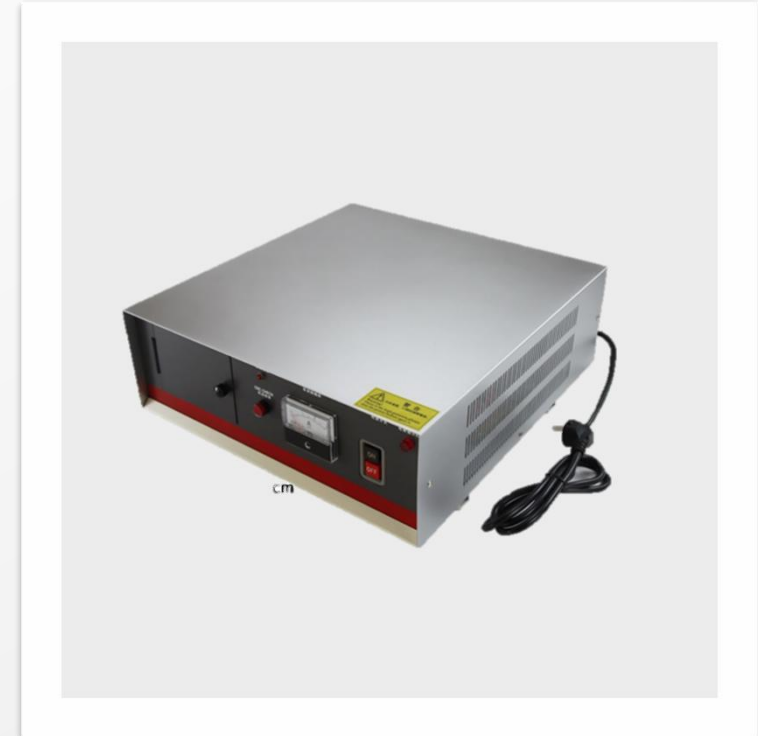
# Analog Ultrasonic Generator

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# Description

The generator box has been used on the market for 20 years, feedback from customers is very good, it uses the analog circuit and is with low failure rate and stable quality.

The inner parts of the generator box can be removed, when some part is broken, you can replace it with a new one to make it work normally, the maintenance is very convenient.



# Parameters



Model	KM-ME-G
Power supply	220V+-10% 50-60HZ
Working Temp.	-10°C-40°C
Welding Time	0.00s-9.99s
Working Frequency (options)	15KHz/20KHz
Welding type	Continuous/intermittent
Cooling type	air cooling

# Features

1

Welding modes: Time

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2

Resonate system protection:

- 1) Excessive deviation in frequency
  - 2) Over-current
  - 3) Over- loaded
  - 4) Abnormal temperature in the generator.
- 

3

Easy installation and simple maintenance

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4

The electrical circuit system can effectively avoid the malfunction during the operation, thus having enhanced the welding precision and reduced reject rate.

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5

With serial circuit

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6

Voltage: power supply adaptability.  
When the power supply voltage fluctuate within the range of  $\pm 10\%$ , the amplitude deviation of this machine will not exceed 5um due to its unique design in the electrical circuit,which makes more stable welding.

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# Details Show





# Specification



Frequency	Power	Frequency Range	Voltage	Type of welding	Weight
15kHz	2600w/3200w	14.40-15.20kHz	220V+-10%	intermittent	14kg
15kHz	2600w	14.40-15.20kHz	220V+-10%	continuous	
20kHz	1500w	19.40-20.20kHz	220V+-10%	continuous	
20khz	1800w	19.40-20.20kHz	220V+-10%	intermittent	



# Application cases



filter bag welding



plastic toys welding



N95 face mask welding

# Digital Ultrasonic Generator

**Description Parameters Features Details Show Specification Application cases**



PART  
2



# Description



This generator is designed for productions of non-woven fabrics, the target market is big volume fabric cutting and welding market. It is used to replace the traditional old model fabric welding generators used in the lace welders, the mask welders, non-woven clothes welders, etc. Economical but powerful and high adaptability ultrasonic generator for fabric continuous welding.

# Description

Model: KM-SS-G



horizontal type



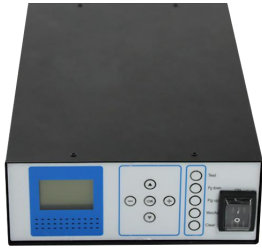
vertical type

# Parameters



Model	KM-SS-G
Output power:	0-2600W
Operating ambient temperature:	-20° C - +65° C
Sinusoidal harmonic parameter $\leq 0.2\%$	
Working frequency:	15KHz/20KHz/28KHz/30KHz/35KHz/40KHz
Horn frequency scope:	$\pm 400\text{Hz}$
Automatic tracking frequency accuracy:	0.1Hz
Power repetition consistency:	$\geq 97\%$
Power fluctuation:	$\leq 5\%$
Remote terminal dynamic response time:	$\geq 30\text{ms}$

# Features



## Frequency tracking

real time frequency  
automatic tracking  
function



## Welding modes

time, outer control and  
spot welding



## Protection

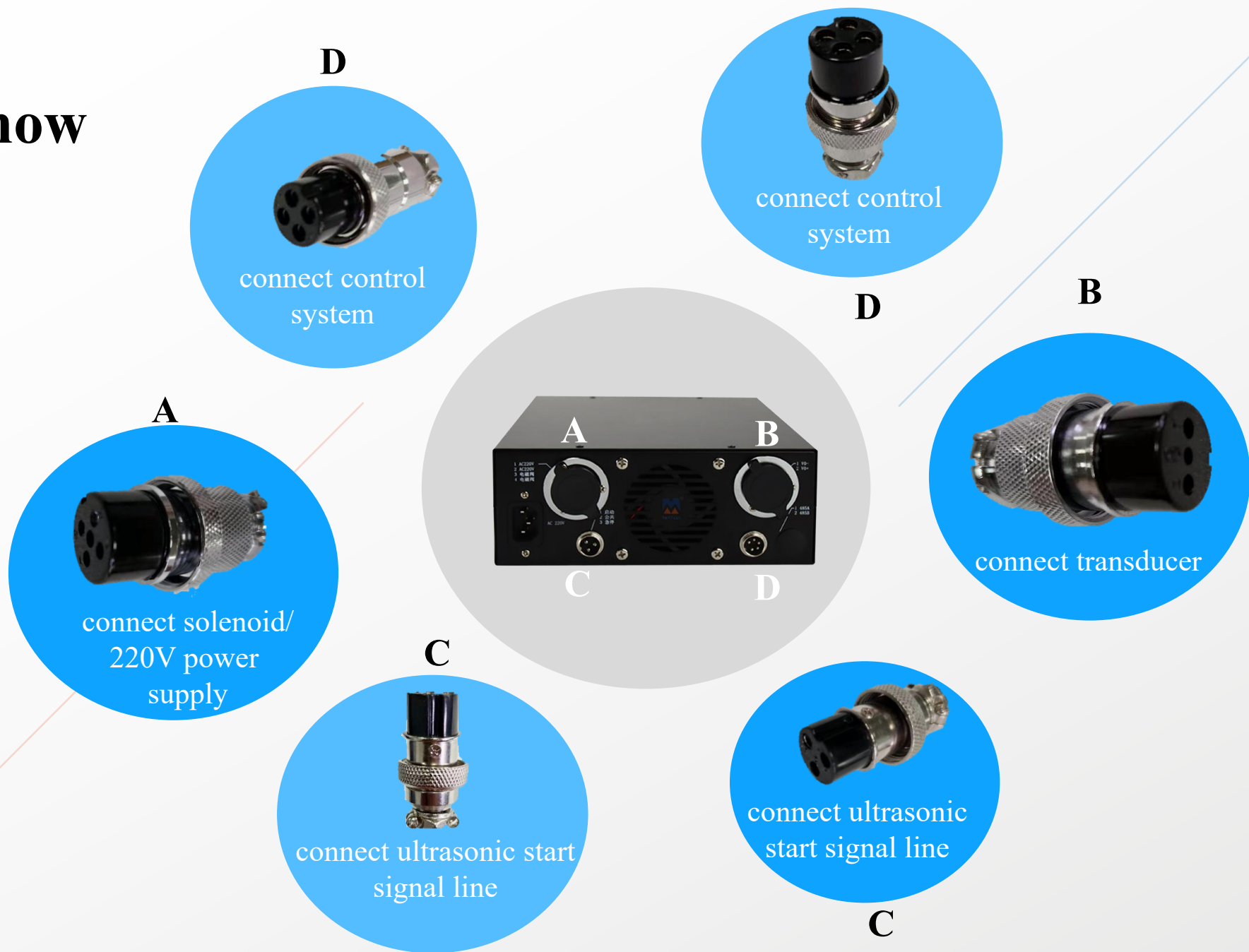
over-load circuit is equipped  
for protection (voltage,  
current, phase, temperature  
and force)



## Amplitude

auto-compensating  
amplitude

# Details Show





# Specification



Model	Frequency	Power	Frequency Range	Voltage	Type of welding	Weight
KM-SS-G1520	15kHz	2000w	14.40-15.20kHz	220V+-10%	continuous	4kg
KM-SS-G1526	15kHz	2600w	14.40-15.20kHz	220V+-10%	intermittent	
KM-SS-G2020	20kHz	2000w	19.40-20.20kHz	220V+-10%	continuous	
KM-SS-G2026	20khz	2600w	19.40-20.20kHz	220V+-10%	intermittent	

# Application cases



disposable face mask welding



table cloth welding



shoe cover fabric welding



PART  
3

# Digital Ultrasonic Generator (With Or Without PLC)

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**Description Parameters Features Details Show Specification Application cases**

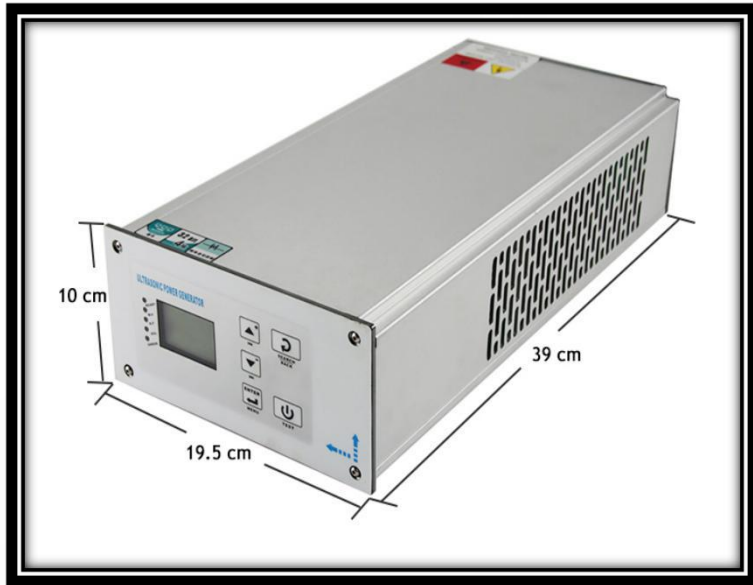
# Description

This is the standard Key press/ PLC type digital ultrasonic welding generator , which is applied in continuous non-woven fabric welding and cutting ,plastic welding and food cutting, etc. Different powers of this series are available. This product has proved very stable quality in the market , which can compete with international high grade generators, but with very competitive price.

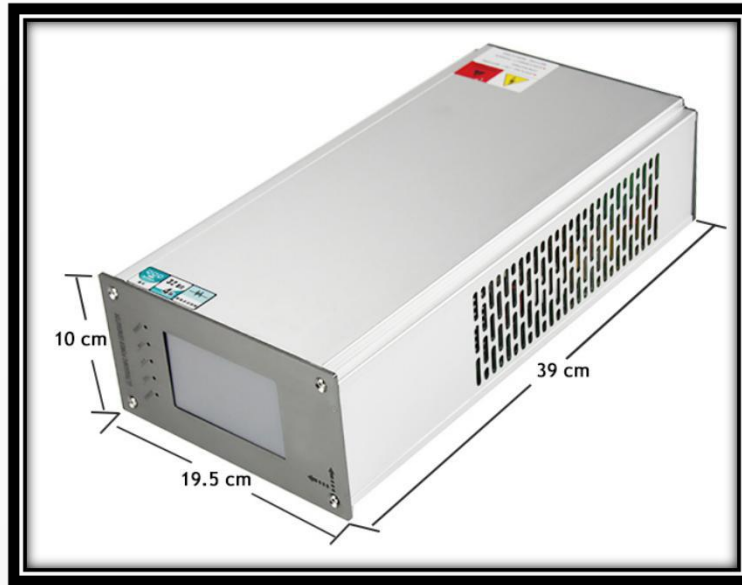


# Description

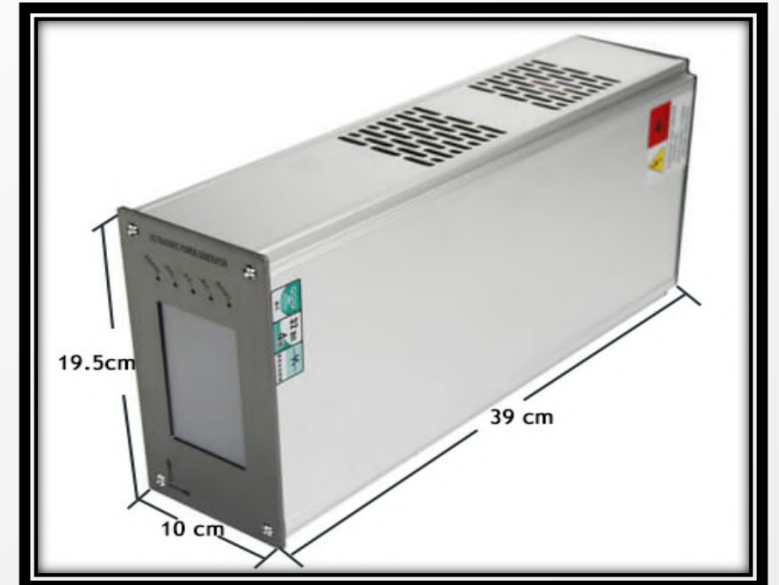
Model: KM-QD-G/KM-QD-GPLC



standard type



PLC type



vertical type

# Parameters



Model	KM-QD-G / KM-QD-GPLC
Output power:	0-4000W
Voltage	220V+/-10%, 50-60Hz
Working frequency	15KHz/20KHz/30KHz/35KHz/40KHz
Work temperature	-10 to +40°C
Level of protection	IP20, IEC60 529, EN60 525
Input/output interface	Plug-in type connectors
curing time adjustment range	0-99.99s
Power fluctuation:	≤ 5%
Welding mode	continuous ,time ,energy , grounding



- **Amplitude**

amplitude segmentation function. welding amplitude 10-100% adjustable (1% accuracy) ;amplitude compensation function

- **Frequency**

real time frequency automatic tracking function

- **Welding modes**

time, energy and grounding

- **Protection**

overload protection, voltage protection (input), transducer voltage protection, mold impedance analysis + protection

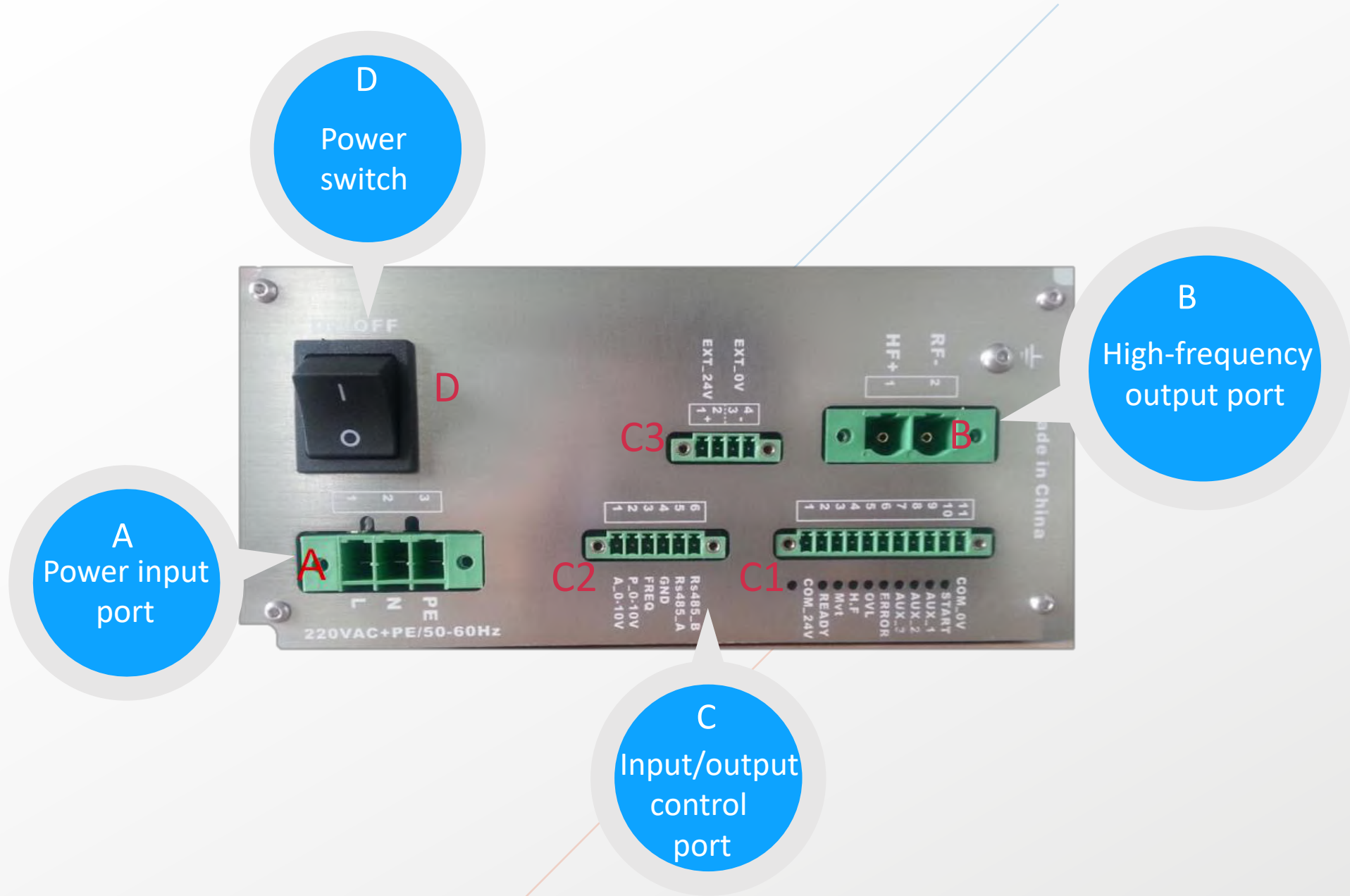
- **Communication & processor**

485 communication port, 4-core 32-bit processor





# Details Show



# Specification



Frequency	Power	Frequency Range	Voltage	Air source	Weight
15kHz	2500w/3000w/4000w	14.40-15.20kHz	220V+-10%	filtered clean air	7kg
20kHz	1500w/2000w/3000w	19.40-20.20kHz	220V+-10%		
30kHz	750w/1000w/1500w	29.30-30.30kHz	220V+-10%		
35kHz	750w/1000w	34.20-35.40kHz	220V+-10%		
40kHz	750w/1000w	39.20-40.40kHz	220V+-10%		

# Application cases



disposable face mask welding



plastic parts welding



food cutting

# Digital Ultrasonic Generator with Parallel Circuit

PART  
4

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# Description



This is a parallel circuit generator box based on the advanced technology in China , applicable for food cutting, plastic welding, non-woven fabric welding , etc.

# Parameters



Model	KM-JQ-G
Output power:	0-4500W
Voltage	220V+/-10%, 50-60Hz
Working frequency	15KHz/20KHz/28KHz/30KHz/35KHz/40KHz
Work temperature	-10 to +40°C
Input/output interface	Plug-in type connectors
curing time adjustment range	0-99.99s
Power fluctuation:	≤ 5%
Welding mode	time ,energy

# Features



## Frequency

Real time frequency  
automatic tracking  
function



## Welding modes

time , energy



## Protection

Overload protection, voltage  
protection , transducer  
voltage protection

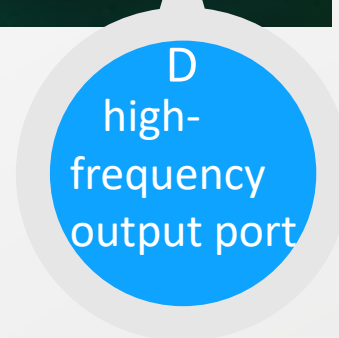
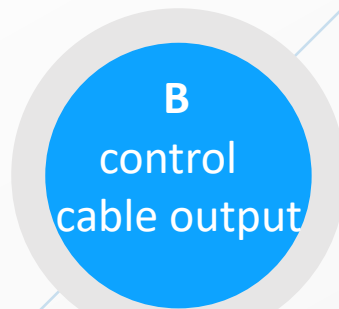
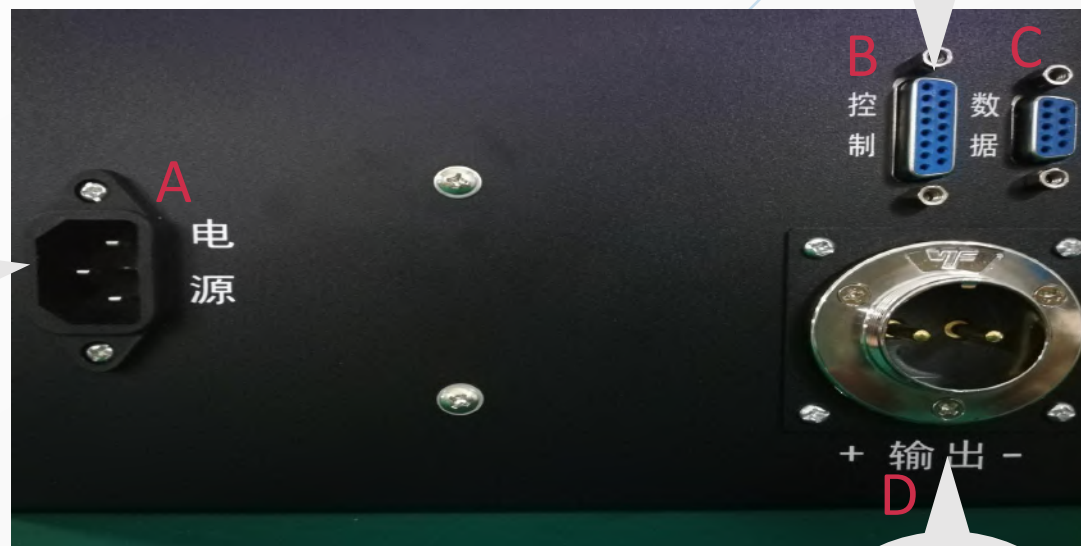


## Amplitude

Welding amplitude  
adjustable 10%-100% (1%  
accuracy)



# Details Show



# Specification



Frequency	Input power	Output power	Voltage	Air source	Weight
15kHz	AC220V 50/60Hz	800W,1000W,1500W,2500W,3500W,4500W(higher power can be customized. )	220V+-10%	filtered clean air	6kg
20kHz			220V+-10%		
28kHz			220V+-10%		
30kHz			220V+-10%		
35kHz			220V+-10%		

# Application cases



plastic parts welding



food cutting product line



N95 face mask welding





# Generators Comparison

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PART  
5



<p><b>Model</b></p>	 <p><b>KM-ME-G</b></p>	 <p><b>KM-SS-G</b></p>	 <p><b>KM-QD-G</b></p>	 <p><b>KM-JQ-G</b></p>
<p>Type</p>	<p>analog</p>	<p>digital</p>	<p>digital</p>	<p>digital</p>
<p>Welding modes</p>	<p>time</p>	<p>time, outer control , spot welding</p>	<p>continuous , time, energy , grounding</p>	<p>time , energy</p>
<p>Features</p>	<p>1.failure rate ≤ 1% 2.Easy to install and simple maintenance 3.Manual frequency tracking 4.With serial circuit</p>	<p>1. failure rate ≤ 5% 2. Easy to operate and flexible to move 3.Automatic frequency tracking 4.With serial circuit</p>	<p>1. failure rate ≤ 2% 2. Easy to operate with high efficiency 3.Automatic frequency tracking 4.With serial circuit</p>	<p>1. failure rate ≤ 2% 2. Easy to operate with high efficiency 3. Automatic frequency tracking 4.With parallel circuit</p>
<p>Application</p>	<p>non-woven welding and plastic welding</p>	<p>non-woven welding and cutting</p>	<p>non-woven (N94,KN95 mask) welding, plastic welding and food cutting</p>	<p>non-woven welding , plastic welding and food cutting</p>





Looking forward to cooperating with you!

**Thanks for your attention**

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