

20 and 40 kHz Ultrasonic Power Supplies and Power Supply Kits for OEM's and Special Automated Machine Builders

Sonics' 40 and 20 kHz **Ultrasonic Generator Kits** are ideal for OEM's, special machinery builders and systems integrators. The kits are available in a variety of configurations and platforms to meet the unique layout and space requirements of the machine designer's control panel.

Integrating the ultrasonic generator kits with a systems PLC for logic and cycle functions, these kits are used for a variety of plastics welding, staking and inserting applications and are particularly suited for multiple ultrasonic stack sequencing systems.



**F-Series Kit**  
40 kHz at 400 and 800 Watts Power  
20 kHz @ 1200, 1700 and 2200 Watts Power



**H-Series Kit**  
40 kHz @ 500 Watts Power  
40 kHz @ 700 Watts Power  
20 kHz @ 500 Watts Power



**GC and GXC Series Power Supply**  
40 kHz at 400 and 800 Watts Power  
20 kHz @ 1200, 1700 and 2200 Watts Power

Description	GC Power Supply	GXC Power Supply	F-Series Kit	H-Series Kit
RF Connection	LEMO Cable	Multi-Pin M/S Cable	Contact Block	Crimp Connect Tab
I/O Connection	Multi-Pin Cable	Multi-Pin Cable	Contact Block	DB9
Weld Time Settings	External PLC	External PLC	External PLC	External PLC
Amplitude Adjustment	Digital or External PLC	Digital or External PLC	External PLC	External PLC
Press Connection	Multi-Pin M/S Cable	Multi-Pin M/S Cable	N/A	N/A
External PLC Actuation	Multi-Pin M/S Cable	Multi-Pin M/S Cable	Contact Block	DB9
Wattage / Energy Monitoring	0 to 10 Volt Output Signal Correlation			
Automatic Tuning	Standard	Standard	Standard	Standard
Overload Reset	Front Panel or Output Signal	Front Panel or Output Signal	PLL Control Board or Output Signal	PLL Control Board or Output Signal
Manual Ultrasonic's "ON"	Front Panel or Input Signal	Front Panel or Input Signal	PLL Control Board or Input Signal	PLL Control Board or Input Signal
Frequency Display	Front Panel or Output Signal	Front Panel or Output Signal	Output Signal	Output Signal
Overload Protection Circuitry	Standard	Standard	Standard	Standard
Line Voltage and Load Regulation Circuitry	Standard	Standard	Standard	Standard
Soft Start Overload Protection Circuitry	Standard	Standard	Standard	Standard

**Input Voltages**

400, 500, 700, 800 and 1200 Watts – 220 VAC Single Phase Standard (110 VAC Optional)  
1700 and 2200 Watts – 220 VAC Single Phase Standard

哥威雅 (香港) 有限公司  
Qoovia Corporation (Hong Kong) Limited

Hong Kong Office: 15B Granville House, 41C Granville Road, T.S.T., Kowloon, Hong Kong  
Tel: +86(00852)61717217 & 81463719 Fax: +86(00852)81479859

Dongguan Office: 6 Hang, No 17, Heng Xin Road Heng Gang Tou, Xin An Qu Chang An, Dongguan Guangdong, China 523882

Tel: +86(0769)8532-0321 Fax: +86(0769)8532-0145



## 20 and 40 kHz Ultrasonic Actuators and Stacks for OEM's and Special Automated Machine Builders



**Slimline Actuator**  
20 kHz – Model 1096  
40 kHz – Model 4096



**Converter**      **Booster**      **Horn**



**CV154**  
**Converter**

**CVR233**  
**Converter**

### Ultrasonic Converters

Sonics' 20 and 40 kHz **Ultrasonic Converters**, with rigid mount design, provide a durable component for automated and semi-automated ultrasonic plastics assembly systems. By eliminating the traditional O-ring mount design, these high efficiency converters have been field proven to tolerate higher pressures without sustaining damage and operate consistently with extremely low power losses and minimized heat gain.



### Ultrasonic Boosters

Available in traditional aluminum or titanium O-ring design or single piece machined titanium rigid mount design

### Ultrasonic "Stack"

**Converter:** Converts electrical energy to mechanical energy in the form of ultrasonic mechanical vibrations.

**Booster:** Means to mechanically secure the stack and used to increase or decrease amplitude by physical input / output gain ratio.

**Horn:** Transmits ultrasonic vibrations to the plastic part or insert.

**Note:** Horns can connect direct to the converter (No booster).

Converter Model	Frequency	RF Connection	Air Connection Port	Horn Stud Thread
CV15	20 kHz	Actuator / Press Button	N/A	3/8-24
CV157	20 kHz	Actuator / Press Button	Rear	3/8-24
CV151	20 kHz	LEMO (Rear)	N/A	3/8-24
CV154	20 kHz	LEMO (Rear)	Rear	3/8-24
CVR23	40 kHz	Actuator / Press Button	N/A	8 mm
CVR231	40 kHz	LEMO (Rear)	N/A	8 mm
CVR234	40 kHz	LEMO (Rear)	Rear	8 mm
CVR233	40 kHz	SHV (Side)	Side	8 mm

哥威雅 (香港) 有限公司  
 Qoovia Corporation (Hong Kong) Limited

Hong Kong Office: 15B Granville House, 41C Granville Road, T.S.T., Kowloon, Hong Kong  
 Tel: +86(00852)61717217 & 81463719 Fax: +86(00852)81479859

Dongguan Office: 6 Hang, No 17, Heng Xin Road Heng Gang Tou, Xin An Qu Chang An,  
 Dongguan Guangdong, China 523882

Tel: +86(0769)8532-0321 Fax: +86(0769)8532-0145



Sonics & Materials, Inc.