

Type	Frequency Generator and Amplifier			
Application	Plugs into 120-240VAC 50/60Hz Power Source Provides power to various Output devices			
Features	Frequencies (dependent upon Output device)	3 Independent direct frequencies 1 to 4,000,000 Hz 5 Equal amplitude frequencies 1 to 100,000 Hz Multitude of frequencies with Custom Complex Waveforms		
	Frequency Mixing	Single Mixed Carrier		
	Waveform Types	Squarewave Sinewave Square Sweep Trapezoid Triangle	Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down	Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3
	Programs	1236 Internal non-volatile (User re-nameable) 255 User non-volatile (Completely configurable including name)		
	Program Options	Run View	Create Edit	Copy Erase
	Sequencing	80 Sequences per Program Single direct 40 Sequences per Program Mixed or Carrier direct		
	Chain	Chain up to 100 Programs Repeat programs for unlimited program run time		
	Outputs	2 Pair Electrodes 1 Pair Raytubes 1 LED Wand 1 Auxiliary		
	Simultaneous Outputs	Single Electrode + Raytubes, LED Wand, or Auxiliary		
	Run Timer	1 to 120 Minutes (per program), up to 8.3 Days and Indefinite time with Chain Pause/Resume		
	Duty Cycle	1 to 100%		
	Intensity Controls	1 to 100% Conductors (independent) 1 to 100% Radiators (independent)		
	Program Variables	Name Use Defaults Output Run Time Duty Cycle Gate Waveform Gate Frequency	Electrode Intensity Raytube Intensity Soft Start Auto Shutoff Use Carrier Carrier Waveform Carrier Frequency	Frequency Waveform Frequency Add Frequencies Save Program Run Program
	Changeable Defaults	Show Instructions Power On Application Sequence Program Use Defaults Output Device Run Time Duty Cycle Gate Waveform	Gate Frequency Electrode Intensity Radiator Intensity Soft Start Auto Shutoff Use Carrier Same/Different Carrier Carrier Waveform	Frequency Waveform Carrier Frequency Frequency More Frequencies Save Program Run Program
Other	Built in Instructions Soft Start	Automatic Shutoff Program without Run	Run without Store	

Electrodes

10/01/13

Type		Conduction Device		
Application		Up to 2 pairs plug directly into the Ultra Powered by the Ultra		
Configuration		Fully balanced differential, Floating		
Energy type		AC Audio and Radio Frequencies (AF & RF) Conduction		
Frequency	Modes of Operation	Single or Multiple Frequencies with or without Variable Frequency Carrier Square or Linear Drive Frequencies and Carrier		
	Waveform Types	Squarewave Sinewave Square Sweep Trapezoid Triangle	Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down	Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3
	Range	1 to 4,000,000 Hz Squarewave (Rise and Fall time < 150ns.) 1 to 100,000 Hz all other Waveforms (Sinewave Distortion < 0.1% THD)		
	Resolution	1.00000 to 9.99999 Hz (0.00001 Hz) 10.0000 to 99.9999 Hz (0.0001 Hz) 100.000 to 999.999 Hz (0.001 Hz) 1,000.00 to 9,999.99 Hz (0.01 Hz) 10,000.0 to 99,999.9 Hz (0.1Hz) and 100,000 Hz 100,000 to 4,000,000 Hz (100 Hz)		
	Maximum Simultaneous Frequencies	2 Individual 6 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms		
Duty Cycle, Modulation & Gate	Modes of Operation	Variable Duty Cycle 1 to 100% Single or Multiple Frequencies Square or Linear Drive Frequencies		
	Waveform Types	Squarewave Sinewave Square Sweep Trapezoid Triangle	Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down	Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3
	Range	1 to 10,000 Hz		
	Resolution	1.0000 to 9.9999 Hz (0.0001 Hz) 10.000 to 99.999 Hz (0.001 Hz) 100.00 to 999.99 Hz (0.01 Hz) 1,000.0 to 9,999.9 Hz (0.1 Hz) and 10,000 Hz		
	Maximum Simultaneous Modulation Frequencies	1 Individual 2 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms		
Intensity		1 to 100%		
Power Output		¼ Watt Max. (dependent upon program & load impedance) Voltage 30 Volts PP Squarewave, 35 Volts PP all other waveforms		

LED Wand**Models: LW640A Red, LW520A Green, LW467A Blue**

10/01/13

Type		Light Emitting Device		
Application		Plugs directly into the Ultra Powered by the Ultra		
Configuration		Unbalanced, Floating		
Energy type		Model HW640A Red 640nm light Model HW520A Green 520 nm light Model HW467A Blue 467 nm light		
Frequency	Modes of Operation	Single or Mixed Frequencies with or without Variable Frequency Carrier Square Drive frequencies and Carrier		
	Waveform Types	Squarewave Sinewave Square Sweep Trapezoid Triangle	Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down	Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3
	Range	1 to 100,000 Hz		
	Resolution	1.00000 to 9.99999 Hz (0.00001 Hz) 10.0000 to 99.9999 Hz (0.0001 Hz) 100.000 to 999.999 Hz (0.001 Hz) 1,000.00 to 9,999.99 Hz (0.01 Hz) 10,000.0 to 99,999.9 Hz (0.1Hz) and 100,000 Hz		
	Maximum Simultaneous Frequencies	2 Individual 6 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms		
Duty Cycle, Modulation & Gate	Modes of Operation	Variable Duty Cycle 1 to 100% Single or Multiple Frequencies Square or Linear Drive Frequencies		
	Waveform Types	Squarewave Sinewave Square Sweep Trapezoid Triangle	Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down	Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3
	Range	1 to 10,000 Hz		
	Resolution	1.0000 to 9.9999 Hz (0.0001 Hz) 10.000 to 99.999 Hz (0.001 Hz) 100.00 to 999.99 Hz (0.01 Hz) 1,000.0 to 9,999.9 Hz (0.1 Hz) and 10,000 Hz		
	Maximum Simultaneous Modulation Frequencies	1 Individual 2 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms		
Intensity		1 to 100%		
Power Output		Model LW640A Red 24,000 mcd Max. Model LW520A Green 108,000 mcd Max. Model LW467A Blue 21,600 mcd Max.		

High Power LED Wand Models: HW626A Red, HW530A Green, HW470A Blue

10/01/13

Type		Light Emitting Device		
Application		Connects to Ultra Auxiliary connector through a cord Powered by the Ultra		
Configuration		Unbalanced, Floating		
Energy type		Model HW626A Red 626nm light Model HW530A Green 530 nm light Model HW470A Blue 470 nm light		
Frequency	Modes of Operation	Single or Mixed Frequencies with or without Variable Frequency Carrier Square Drive frequencies and Carrier		
	Waveform Types	Squarewave Sinewave Square Sweep Trapezoid Triangle	Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down	Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3
	Range	1 to 4,000,000 Hz Squarewave 1 to 100,000 Hz all other Waveforms		
	Resolution	1.00000 to 9.99999 Hz (0.00001 Hz) 10.0000 to 99.9999 Hz (0.0001 Hz) 100.000 to 999.999 Hz (0.001 Hz) 1,000.00 to 9,999.99 Hz (0.01 Hz) 10,000.0 to 99,999.9 Hz (0.1Hz) and 100,000 Hz		
	Maximum Simultaneous Frequencies	2 Individual 6 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms		
Duty Cycle, Modulation & Gate	Modes of Operation	Variable Duty Cycle 1 to 100% Single or Multiple Frequencies Square or Linear Drive Frequencies		
	Waveform Types	Squarewave Sinewave Square Sweep Trapezoid Triangle	Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down	Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3
	Range	1 to 10,000 Hz		
	Resolution	1.0000 to 9.9999 Hz (0.0001 Hz) 10.000 to 99.999 Hz (0.001 Hz) 100.00 to 999.99 Hz (0.01 Hz) 1,000.0 to 9,999.9 Hz (0.1 Hz) and 10,000 Hz		
	Maximum Simultaneous Modulation Frequencies	1 Individual 2 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms		
Intensity		1 to 100%		
Power Output		Model HW620A Red 255 Lumens Max. Model HW530A Green 435 Lumens Max. Model HW470A Blue 174 Lumens Max.		

Raytubes

10/01/13

Type	Plasma Carrier Modulator		
Application	1 pair plugs directly into the Ultra Powered from the Ultra		
Configuration	Fully balanced differential, Floating		
Energy type	AC Radio Frequencies (RF) Conduction Electromagnetic (EM) Electric Field (E-Field) Ultra-red (UR), Visible, & Ultra-violet (UV) Light		
Frequency	Modes of Operation	Single or Mixed Frequencies @ Fixed Carrier (100kHz Nominal) Square Drive Frequencies, Linear Drive Carrier	
	Waveform Types	Squarewave Sinewave Square Sweep Trapezoid Triangle	Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down
	Range	1 to 100,000 Hz (only effective if below Carrier Frequency)	
	Resolution	1.00000 to 9.99999 Hz (0.00001 Hz) 10.0000 to 99.9999 Hz (0.0001 Hz) 100.000 to 999.999 Hz (0.001 Hz) 1,000.00 to 9,999.99 Hz (0.01 Hz) 10,000.0 to 100,000.00 Hz (0.1Hz)	
	Maximum Simultaneous Frequencies	1 Individual + Carrier 2 Equal Intensity Harmonic Multipliers + Carrier Multiple with Pulse and Frequency Harmonics + Carrier Multiple with Custom Arbitrary Waveforms + Carrier	
Duty Cycle, Modulation & Gate	Modes of Operation	Variable Duty Cycle 1 to 100% Single or Multiple Frequencies Square or Linear Drive Frequencies	
	Waveform Types	Squarewave Sinewave Square Sweep Trapezoid Triangle	Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down
	Range	1 to 10,000 Hz	
	Resolution	1.0000 to 9.9999 Hz (0.0001 Hz) 10.000 to 99.999 Hz (0.001 Hz) 100.00 to 999.99 Hz (0.01 Hz) 1,000.0 to 9,999.9 Hz (0.1 Hz) and 10,000 Hz	
	Maximum Simultaneous Modulation Frequencies	1 Individual 2 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms	
Intensity	1 to 100%		
Power Output	30 Watts Max. (dependent upon program & load impedance)		

Vortex**Model: Vortex VM**

10/01/13

Type	Plasma Carrier Modulator			
Application	Connects to Ultra Auxiliary connector through a cord Powered by the Ultra			
Configuration	Fully balanced differential, Floating			
Energy type	AC Radio Frequencies (RF) Conduction Electromagnetic (EM) Electric Field (E-Field) Ultra-red (UR), Visible, & Ultra-violet (UV) Light			
Frequency	Modes of Operation	Single or Mixed Frequencies @ Fixed Carrier (50kHz Nominal) Square Drive Frequencies, Linear Drive Carrier		
	Waveform Types	Squarewave Sinewave Square Sweep Trapezoid Triangle	Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down	Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3
	Range	1 to 50,000 Hz (only effective if below Carrier Frequency)		
	Resolution	1.00000 to 9.99999 Hz (0.00001 Hz) 10.0000 to 99.9999 Hz (0.0001 Hz) 100.000 to 999.999 Hz (0.001 Hz) 1,000.00 to 9,999.99 Hz (0.01 Hz) 10,000.0 to 50,000.00 Hz (0.1Hz)		
	Maximum Simultaneous Frequencies	1 Individual + Carrier 2 Equal Intensity Harmonic Multipliers + Carrier Multiple with Pulse and Frequency Harmonics + Carrier Multiple with Custom Arbitrary Waveforms + Carrier		
Duty Cycle, Modulation & Gate	Modes of Operation	Variable Duty Cycle 100% Single or Multiple Frequencies Square or Linear Drive Frequencies		
	Waveform Types	Squarewave Sinewave Square Sweep Trapezoid Triangle	Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down	Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3
	Range	1 to 10,000 Hz		
	Resolution	1.0000 to 9.9999 Hz (0.0001 Hz) 10.000 to 99.999 Hz (0.001 Hz) 100.00 to 999.99 Hz (0.01 Hz) 1,000.0 to 9,999.9 Hz (0.1 Hz) and 10,000 Hz		
	Maximum Simultaneous Modulation Frequencies	1 Individual 2 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms		
Intensity	1 to 100%			
Power Output	48 Watts Max. (dependent upon program & load impedance)			

Beam Tube PCM**Model: BT PCM**

10/01/13

Type		Plasma Carrier Modulator		
Application		Connects to Ultra Auxiliary connector through a cord Powered by the Ultra		
Configuration		Fully balanced differential, Floating		
Energy type		AC Radio Frequencies (RF) Conduction Electromagnetic (EM) Electric Field (E-Field) Ultra-red (UR), Visible, & Ultra-violet (UV) Light		
Frequency	Modes of Operation	Single or Mixed Frequencies @ Fixed Carrier (168kHz Nominal) Square Drive Frequencies, Linear Drive Carrier		
	Waveform Types	Squarewave Sinewave Square Sweep Trapezoid Triangle	Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down	Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3
	Range	1 to 168,000 Hz Squarewave (only effective if below Carrier Frequency) 1 to 100,000 Hz all other Waveforms		
	Resolution	1.00000 to 9.99999 Hz (0.00001 Hz) 10.0000 to 99.9999 Hz (0.0001 Hz) 100.000 to 999.999 Hz (0.001 Hz) 1,000.00 to 9,999.99 Hz (0.01 Hz) 10,000.0 to 99,999.9 Hz (0.1Hz) and 100,000 Hz		
	Maximum Simultaneous Frequencies	1 Individual + Carrier 2 Equal Intensity Harmonic Multipliers +Carrier Multiple with Pulse and Frequency Harmonics + Carrier Multiple with Custom Arbitrary Waveforms + Carrier		
Duty Cycle, Modulation & Gate	Modes of Operation	Variable Duty Cycle 1 to 100% Single or Multiple Frequencies Square or Linear Drive Frequencies		
	Waveform Types	Squarewave Sinewave Square Sweep Trapezoid Triangle	Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down	Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3
	Range	1 to 10,000 Hz		
	Resolution	1.0000 to 9.9999 Hz (0.0001 Hz) 10.000 to 99.999 Hz (0.001 Hz) 100.00 to 999.99 Hz (0.01 Hz) 1,000.0 to 9,999.9 Hz (0.1 Hz) and 10,000 Hz		
	Maximum Simultaneous Modulation Frequencies	1 Individual 2 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms		
Intensity		1 to 100%		
Power Output		48 Watts Max. (dependent upon program & load impedance)		

Beam Tube High Frequency PCM

Model: BT HF-PCM

10/01/13

Type		Plasma Carrier Modulator		
Application		Connects to Ultra Auxiliary connector through a cord Powered by the Ultra		
Configuration		Unbalanced, Floating		
Energy type		AC Radio Frequencies (RF) Conduction Electromagnetic (EM) Electric Field (E-Field) Ultra-red (UR), Visible, & Ultra-violet (UV) Light		
Frequency	Modes of Operation	Single or Mixed Frequencies with or without Variable Carrier Frequency Square Drive frequencies and Carrier		
	Waveform Types	Squarewave Sinewave Square Sweep Trapezoid Triangle	Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down	Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3
	Range	1 to 4,000,000 Hz Squarewave 1 to 100,000 Hz all other Waveforms		
	Resolution	1.00000 to 9.99999 Hz (0.00001 Hz) 10.0000 to 99.9999 Hz (0.0001 Hz) 100.000 to 999.999 Hz (0.001 Hz) 1,000.00 to 9,999.99 Hz (0.01 Hz) 10,000.0 to 99,999.9 Hz (0.1Hz) and 100,000 Hz 100,000 to 4,000,000 Hz (100 Hz)		
	Maximum Simultaneous Frequencies	2 Individual 4 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms		
Duty Cycle, Modulation & Gate	Modes of Operation	Variable Duty Cycle 1 to 100% Variable Modulation 1 to 100% Single or Multiple Frequencies Square or Linear Drive Frequencies		
	Waveform Types	Squarewave Sinewave Square Sweep Trapezoid Triangle	Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down	Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3
	Range	1 to 10,000 Hz		
	Resolution	1.0000 to 9.9999 Hz (0.0001 Hz) 10.000 to 99.999 Hz (0.001 Hz) 100.00 to 999.99 Hz (0.01 Hz) 1,000.0 to 9,999.9 Hz (0.1 Hz) and 10,000 Hz		
	Maximum Simultaneous Modulation Frequencies	1 Individual 2 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms		
Intensity	1 to 100%			
Power Output	48 Watts Max. (dependent upon program & load impedance)			

Beam Tube EFG

Model: BT EFG

10/01/13

Type		Electric Field Generator		
Application		Connects to Ultra Auxiliary connector through a cord Powered by separate 120/240VAC 50/60Hz source		
Configuration		Unbalanced, Floating		
Energy type		AC Radio Frequencies (RF) Conduction Electromagnetic (EM) Electric Field (E-Field) Ultra-red (UR), Visible, & Ultra-violet (UV) Light		
Duty Cycle, Modulation & Gate	Modes of Operation	Variable Duty Cycle 1 to 100% Single or Mixed Frequencies Square Drive Frequencies		
	Waveform Types	Squarewave Sinewave Square Sweep Trapezoid Triangle	Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down	Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3
	Range	1 to 666 Hz		
	Resolution	1.0000 to 9.9999 Hz (0.0001 Hz) 10.000 to 99.999 Hz (0.001 Hz) 100.00 to 666.66 Hz (0.01 Hz)		
	Maximum Simultaneous Modulation Frequencies	1 Individual 2 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms		
Intensity		Fixed 100%		
Power Output		125 milli-joules/pulse (83 watts @ 666 Hz.)		

Beam Tube High Frequency EFG

Model: BT HF-EFG

10/01/13

Type	Electric Field Generator			
Application	Connects to Ultra Auxiliary connector through a cord Powered by separate 120/240VAC 50/60Hz source			
Configuration	Unbalanced, Floating			
Energy type	AC Radio Frequencies (RF) Conduction Electromagnetic (EM) Electric Field (E-Field) Ultra-red (UR), Visible, & Ultra-violet (UV) Light			
Frequency	Modes of Operation	Single or Mixed Frequencies with or without Variable Frequency Carrier Square Drive Frequencies		
	Waveform Types	Squarewave Sinewave Square Sweep Trapezoid Triangle	Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down	Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3
	Range	1 to 10,000 Hz		
	Resolution	1.00000 to 9.99999 Hz (0.00001 Hz) 10.0000 to 99.9999 Hz (0.0001 Hz) 100.000 to 999.999 Hz (0.001 Hz) 1,000.00 to 9,999.99 Hz (0.01 Hz) and 10,000 Hz		
	Maximum Simultaneous Frequencies	2 Individual 4 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms		
Duty Cycle, Modulation & Gate	Mode of Operation	Variable Duty Cycle 1 to 100% Single or Multiple Frequencies Square or Linear Drive Frequencies		
	Waveform Types	Squarewave Sinewave Square Sweep Trapezoid Triangle	Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down	Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3
	Range	1 to 10,000 Hz		
	Resolution	1.0000 to 9.9999 Hz (0.0001 Hz) 10.000 to 99.999 Hz (0.001 Hz) 100.00 to 999.99 Hz (0.01 Hz) 1,000.0 to 9,999.9 Hz (0.1 Hz) and 10,000 Hz		
	Maximum Simultaneous Modulation Frequencies	1 Individual 2 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms		
Intensity	1 to 100%			
Power Output	20 milli-joules/pulse (72 watts @ 3,600 Hz.) (joules limited at higher frequencies)			

12V Power Supply Adapter**Model: PS 12/24**

10/01/13

Type	Power Supply Adapter for the Ultra
Application	Provides power for the Ultra from a 12V DC source, such as a car, car battery, or Solar system Connects to Ultra through a cord

Ultra Footbath**Model: BCX Ultra Foot Bath**

10/01/13

Type	Electrolysis Generator and Modulator			
Application	Powered by 120-240VAC 50/60Hz source Plug into BCX Ultra Auxiliary connector for Modulation and Duty Cycle capabilities			
Configuration	Floating			
Energy type	DC Electricity with application changing polarity			
Duty Cycle, Modulation & Gate	Modes of Operation	Variable Duty Cycle 1 to 100% Single or Mixed Frequencies Square Drive Frequencies		
	Waveform Types	Squarewave Sinewave Square Sweep Trapezoid Triangle	Hoyland Linear Ramp Up Linear Ramp Down Exponential Ramp Up Exponential Ramp Down	Equal Odd Order Harmonics Equal Even Order Harmonics Custom 1 Custom 2 Custom 3
	Range	1 to 10,000 Hz		
	Resolution	1.0000 to 9.9999 Hz (0.0001 Hz) 10.000 to 99.999 Hz (0.001 Hz) 100.00 to 999.99 Hz (0.01 Hz) 1,000.0 to 9,999.0 Hz (0.1 Hz) and 10,000 Hz		
	Maximum Simultaneous Modulation Frequencies	1 Individual 2 Equal Intensity Harmonic Multipliers Multiple with Pulse and Frequency Harmonics Multiple with Custom Arbitrary Waveforms		
Intensity	Fixed 100%			
Power Output	48 Watts Max. (dependent upon program & load impedance)			