

# Bovie® Electrosurgery For the Office & Surgi-center



## The Aaron 1250™... Innovative Excellence by Bovie®

The Aaron 1250 by Bovie is a multipurpose electrosurgical generator for use in the modern physician's office and surgi-center. It features both monopolar and bipolar functions to satisfy all of your surgical demands with safety, flexibility, reliability, and convenience.

The Aaron 1250 incorporates 120 watts of cutting power and 90 watts of blended cutting. It also has two levels of coagulation, pinpoint (80 watts maximum power) and fulguration (40 watts maximum power), plus bipolar (30 watts maximum power).

### In the Beginning...

Bovie's major goal in designing the Aaron 1250 was to deliver the absolute highest level of safety and quality, but not waste money on features you rarely use. One major area of savings can be found in the output power of 120 watts. Nearly every hospital specification on an electrosurgical generator calls for 300 watts of power. Have you ever asked yourself why you need 300 watts at all stations when it is used so infrequently? We did. It results in spending a few thousand dollars more per unit for a feature that just is not used. By calling for the Aaron 1250 in most of the surgical suites, you can save a significant amount of money.

### Convenient Display Features...

For your convenience, the power output of the Aaron 1250 is calibrated in watts with large, illuminated digital displays.

The Aaron 1250 remembers its last used settings; so that when you turn the unit on, it performs a safety system check and automatically powers up to the settings on the unit when it was last activated.

### Coagulation Modes...

The Aaron 1250 offers two levels of coagulation: pinpoint and fulguration. Pinpoint coagulation provides precise control of bleeding in localized areas. Fulguration (spray) coagulation provides greater control of bleeding in highly vascular tissues over broad surface areas.

### Ready to Use...

We wanted to make sure that when you take the Aaron 1250 out of the box, it will be ready to go. It includes the Aaron 1250, hospital grade power cord, user's guide, one disposable electrosurgical pencil (standard push button), three electrodes, one reusable grounding cord, and five disposable split grounding pads. See back for photos of these accessories.

### Designed for Safety...

Electrosurgical safety is a combination of good equipment design and safe surgical practices. The Aaron 1250, as part of this combination, represents state-of-the-art design using the latest in digital technology. Bovie incorporates automatic safety systems into the Aaron 1250 like self-test circuits, audible tones, discreet outputs, and isolated output circuitry.

BovieNEM™ and BovieGuard™ mean safety is digitally designed inside. The FCFS™ (first come, first served) discrete output design of the Aaron 1250 enhances safety by allowing only one output to be activated at any given time. This feature ensures that only the device you first activate will be an active device. Secondary commands will not override the first command. For instance, while the monopolar foot controlled output is activated, all handswitching is inactive, as well as the bipolar footswitch capability.

For additional safety, this unit has totally separate bipolar controls, discrete output, and is designed with an isolated RF output.

With the combination of isolated power output, BovieNEM™, Bovie FCFS™ technology, and the constant digital monitoring of all functions, the Aaron 1250 incorporates one of the safest electrosurgical systems available. The doctor's responsibility is simply to follow safe electrosurgical practices to ensure his safety and the safety of the O.R. staff and patient.

### Digital Error Detection...

Digital error detection means unsurpassed safety for the surgeon, O.R. staff, and patient. The Aaron 1250 constantly monitors all functions to ensure proper performance. At the sign of any problem, the machine instantly disables the output and displays the appropriate error code on the display.

### Built to the Required Standards...

The Aaron 1250 has passed the following safety standards: CSA C22.2 NO 601.1-M90, UL 2601-1-UL, IEC 60601-2-2 (1998-09), CENELEC EN 60601-1, CENELEC EN 60601-1-2, CENELEC EN 60601-2-2, FCC PART 15 Class A.



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### The Goal...

We wanted to give the surgeon a multipurpose electrosurgical generator for use in the modern physician's office or surgi-center. It needed to feature both monopolar and bipolar functions to satisfy all of his surgical demands with safety, flexibility, reliability, and convenience. This needed to be accomplished with today's economy in mind.

### The Result...

The Aaron 1250 by Bovie.

The Aaron 1250 remembers its last used settings; so that when you turn the unit on, it performs a safety system check and automatically powers up to the settings on the unit when it was last activated.



The Aaron 1250 has Cut and Blend settings. When the Cut LED is illuminated "Pure Cut" mode is selected. When the Blend LED is illuminated, "Blended Cut" mode is selected.



The Aaron 1250 has pad sensing technology (BovieNEM™), enabling the unit to discern whether the return electrode used is split or solid; and, when a split pad is used, to constantly monitor the circuit for tissue to pad contact. An alarm will sound in the event of a loss of contact while using a split pad.



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# Aaron 1250 Included Accessories...

## Included Pencil...

One ESP1



ESP1 Cut & Coag Control, Disposable



standard  
3 pin plug

## Other Included Accessories...

One of each of the pictured electrodes

Five ESRE Split Grounding Pads and  
One A1252C Reusable Cord



ES01 Standard Blade



ES02 Standard Needle



ES20 3/16" Ball



ESRE Grounding Pad

A1252C  
Grounding  
Cord



## Technical Specifications...

### Dimensions:

Height	15.2 cm (6.00 in.)
Width	26 cm (10.25 in.)
Depth	30.5 cm (12.00 in.)
Weight	< 6.5 kg (< 14 lbs)

### General:

Classification	Class 1 Equipment, IEC 60601-1
Type	BF (Defibrillator Proof)
Spillage Protection	Drip Proof (IEC 60601-2-2)
Output Configuration	Isolated (RF Floating)
Cooling	Natural Convection, No Fan

### Input Characteristics:

120 / 240 VAC ± 10%

### Output Characteristics:

Monopolar	Output Power	Output Frequency	Rep Rate
Cut	120 W @ 500 Ω	357 kHz ± 50 kHz	N/A
Blend	90 W @ 800 Ω	357 kHz ± 50 kHz	30 kHz ± 5 kHz
Coagulation	80 W @ 1000 Ω	475 kHz ± 50 kHz	57 kHz ± 5 kHz
Fulguration	40 W @ 1000 Ω	410 kHz ± 50 kHz	25 kHz ± 5 kHz
<b>Bipolar</b>	<b>30 W @ 200 Ω</b>	<b>520 kHz ± 50 kHz</b>	<b>32 kHz ± 5 kHz</b>
<b>Duty Cycle</b>	<b>10 S / 30 S</b>		

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