



Instant Response technology provides surgeons with improved performance or lower power settings, minimizing the risk of tissue damage and neuromuscular stimulation, and decreasing the need to “turn up the generator.” The Force EZ generator adjusts automatically, responding to tissue changes, maintaining power delivery, and minimizing drag. Capacitive coupling is reduced by 30-50% when using Instant Response technology. This reduction is achieved by limiting the RMS voltage and the high-frequency harmonics. Lower voltage means less neuromuscular stimulation and more precise delivery of energy to reduce collateral damage.

Instant Response technology features an advanced feedback system that recognizes changes in tissue 200 times per second, and adjusts voltage and current accordingly to maintain appropriate power. This unique capability differentiates Instant Response generators by their high power efficiency rating (PER). That’s smart generator

Features

- Instant Response technology ensures that the power delivered remains virtually constant, regardless of the tissue type
- Improved performance at lower power settings minimizes the risk of tissue damage and neuromuscular stimulation
- Three internal microcontrollers reduce system reaction time and increase the system’s processing speed
- Easy to use, cost effective system when performance is required and price is of equal concern
- Two cut modes, both controlled by Instant Response technology, offer surgeons a variety of choices:
 - Pure Cut for a clean, precise cut
 - Blend for cutting with hemostasis
- Two primary coag modes:
 - Low for lower voltage contact coagulation suitable in laparoscopic and delicate tissue work
 - High for efficient noncontact coagulation in most applications



Specifications

Dimensions

Height: 5 inches (12.7 cm)
Width: 16 inches (40.6 cm)
Length: 15.6 inches (39.5 cm)
Weight: < 15 lbs (6.8 kg)

Output Waveforms

Bipolar: 470 kHz sinusoid
Monopolar Cut:
Pure: 393 kHz sinusoid
Blend: 393 kHz bursts of sinusoid, recurring at 27 kHz intervals. 50% duty cycle envelope
Monopolar Coag:
Desiccation:
Low 1: 240 ± 40 kHz sinusoid recurring at 39 kHz. 8% duty cycle
Low 2: 393 kHz sinusoid
Low 3: 393 kHz sinusoid
Fulguration:
High 1: 470 ± 40 kHz damped sinusoidal bursts with a repetition frequency of 57 kHz
High 2: 470 ± 40 kHz damped sinusoidal bursts with a repetition frequency of 30 kHz
Output power changes by less than 15% or 5 watts, whichever is greater, as the line voltage varies from 90-135 volts (into a 300 ohm load)

Low Frequency Leakage (50-60 Hz)

Source current, patient leads, all outputs tied together
Normal polarity, intact chassis ground: < 10µA
Normal polarity, ground open: < 50µA
Reverse polarity, ground open: < 50µA
Sink current, 140V applied, all inputs: < 50µA

High Frequency Leakage

Bipolar: Less than 60 mArms
Monopolar: Less than 150 mArms

Input Power Requirements

110-120Vac:
Operating Range: 85-140Vac
Max Current Cut: 8A
Max Current Coag: 4.2A
220-240Vac:
Operating Range: 170-280Vac
Max Current Cut: 4A
Max Current Coag: 2.1A