



The **Valleylab SSE2L** ESU is a general-purpose electrosurgical generator intended for the use in an operating room. The SSE2L electrosurgical unit has both monopolar and bipolar output connections. The monopolar output is intended for use with a patient return electrode and is designed for electrosurgical cutting and fulguration. Its voltage waveforms, CUT, BLEND, and COAG are intended for smooth cutting, cutting with increased degree of hemostasis, and fulguration with a minimum of cutting. The Monopolar output is powerful enough for all common procedures including transurethral resections. The bipolar output power may be controlled by either CUT or COAG controls.

Features

- Optionally available with a “low power option”.
- 3 Electrically independent outputs for hand-switched monopolar, footswitched monopolar, and hand or foot-switched bipolar operation.
- Offers a wide range of surgical capabilities.



Specifications

Dimensions	<p>Height: 7.6" (19.3 cm)</p> <p>Width: 11.6" (29.5 cm)</p> <p>Depth: 16.6" (42.2 cm)</p> <p>Weight: 32.5 lbs (14.7 kg)</p>
Output Waveforms	<p>CUT: 500 KHz \pm 10 KHz sinusoid with 65% 120 Hz modulation</p> <p>COAG: Pulse modulated 450 KHz damped sinusoid; Burst duration 7.0 usec nominally; Burst repetition 20 KHz \pm 2 KHz.</p> <p>BLEND: 500 KHz sinusoid with increased amplitude bursts at 50 usec intervals.</p>
Output Power Control	CUT/BLED and COAG output power is essentially linear with control rotation from settings of (1) to (10).
Output Interaction	The maximum power available from any non-activated output must not exceed 20 W for Monopolar outputs and 3 W for Bipolar output. Non-activated power must be measured into a 500 ohm load for Monopolar outputs and 100 ohm load for Bipolar output.
Output Isolation	<p>Line frequency source leakage current \leq 0.2μA rms</p> <p>Line frequency sink leakage current \leq 150μA rms</p> <p>RF patient leakage \leq150Ma RM</p> <p>Line ground leakage current (50/60 Hertz)</p> <p>Unit off: \leq10 μA rms</p> <p>Unit on: \leq 30μA rms</p> <p>If ground is disconnected unit automatically switches off. Reset by switching on.</p>
Monopolar Output Characteristics	<p>Pure Cut: 2380 V; 375 W \pm 25 W; Crest Factor: 2.1 \pm 0.2</p> <p>Blend: 2440 V; 250 W \pm 25 W; Crest Factor: 2.6 \pm 0.2</p> <p>Coag: 4070 V; 125 W \pm 15 W; Crest Factor: 7.6 \pm 0.5</p>
Bipolar Output Characteristics	<p>Pure Cut: 625 V; 90 W + 15, - 20 W; Crest Factor: 2.1 \pm 0.2</p> <p>Blend: 640 V; 85 W + 15, - 20 W; Crest Factor: 2.2 \pm 0.2</p> <p>Coag: 1100 V; 25 W + 5, - 10 W; Crest Factor: 7.5 \pm 0.5</p>
Line Regulation	For settings used for most electrosurgical procedures, i.e., settings which produce 0-200 watts in cut and blend and 0-75 watts in coag, with line voltages varying between 100 and 130 volts, power will not vary by more than \pm 25 watts in cut and blend, and \pm 17 watts in coag.

