

**ALAN**®

Since 1997.....

*Only Performance  
matters...  
...not size*

CE  
0120



## ELSY- 360 L+

Microcontroller based digital  
**Electrosurgical Unit**

ALAN's ElectroSurgical Unit (Diathermy) is designed with latest miniature electronic circuit design technology. The advanced microcontroller based technology helps in achieving the desired tissue effects. It is Small in size but Surprises on Performance.

### +Safety

- Patient Plate Contact Quality Monitoring System.
- HF leakage monitoring & controlling system.
- Multiple Microcontroller supervision for RF power accuracy.
- Realtime tissue Impedance monitor for Power control
- Power up Selftest to ensure, the unit healthiness.
- Handswitch and footswitch short detection during Selftest.
- Timeout.

### +Reliability

- No need of Voltage Stabilizer, can work in lower voltage.
- Convection Cooling System, offers better Reliability.
- Built-in line filter protects from voltage surges and bad line Conditions. Hence no need to use of spike buster.
- Works on Generator, Inverter & UPS.
- ALAN's proven track record for more than 10 years.

## General Features

- Feather Touch Membrane keyboard for Power, Mode, and Foot switch selection etc. for easy operation of Machine
- Monopolar outputs can be activated via Hand switch and Foot switch
- Isolated Monopolar & Bipolar outputs
- Individual Digital display for Bipolar, Monopolar Cut and Monopolar Coag
- Using Alan's 3 pedal footswitch Monopolar and Bipolar can be operated without changing any setting in the machine
- Simultaneous coagulation for 2 surgeons by footswitch / handswitch combination
- The unit has 3pedal foot switch , explosion proof / water proof Foot Switch
- Multiple Microcontrollers supervision Automatic Diagnosis enables Instant power response against tissue density & impedance variation and Adjust power.
- Restoration of Previous activated Power Settings
- Reduced R.F distortion due to noiseless performance.
- Built with Return Electrode / Patient Plate Monitoring System (PPCM), monitors Split and Non Split type patient plates and deactivates output power with audiovisual alarm during improper contact between patient plate with patient to eliminate the risk of patient burns.
- Digital volume control and audio-visual indications for all outputs.
- Well suited for under water, (TURP) Micro and Major Surgeries
- User settable maximum RF activation Timeout limit
- Maximum power Output 400 Watts

\* Optional Feature

- Specifications are subject to change due to continual Development & upgradation.
- ESU is Also Popularly Known as E. S. Diathermy & E.S. Cautery

## + Clinical Benefits

### MONOPOLAR :-

<b>Pure-Cut</b>	: Monopolar Cut mode for underwater (TURP) and general surgeries.
<b>Low-Cut</b>	: Mode specifically tailored for Laparoscopy.
<b>Blend</b>	: Cutting with coagulation effect.
<b>Spray</b>	: Impulse modulated sinuous waveform for non-contact coagulation on oozing surfaces and (TURP) underwater procedures.
<b>Fulgurate / Force</b>	: A low spray waveform suitable for non-contact coagulation on oozing surfaces and (TURP) underwater coagulation
<b>Desiccate</b>	: Standard coagulation mode.

### BIPOLAR :-

<b>Cut /Standard</b>	: Best coagulation mode when used with graspers. Specially designed mode for bipolar scissors.
<b>Force/Macro</b>	: Faster Bipolar coagulation
<b>Micro/Precise</b>	: Pinpoint coagulation for delicate tissues with less thermal spread

## Input Supply

Input Supply	: 230VAC $\pm$ 20% 50 Hz
Power Consumption	: 750VA Max.
Loading Duty Factor	: 10Sec (Active) / 30Sec (Pause)
Input Fuse	: 5A T
Output Control	: Digital Display, Push buttons in all Modes.

## Safety Standards

Basic Construction	: Accordance with IEC 60601 - 1, IEC 60601 - 1 - 2 & IEC 60601 - 2 - 2
Protection Class	: 1
Unit Type	: CF
All Outputs	: Floating Outputs
Electrical Potential Balancing	: Connecting Pin and Indicated by Symbol.
Weight	: 4.2 Kg.
Size (in mm)	: 310(W) x 150(H) x 350(D)