

ALAN[®]

Since 1997.....

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

CE
1639

ELSY - 360 D+

Microcontroller Based Digital
ELECTROSURGICAL UNIT



Alan's electro-surgical 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 systems.
- Real-Time Tissue impedance monitoring for power control.
- Power up Self-Test to ensure the unit healthiness.
- Handswitch and Footswitch short detection during Self-Test.
- Multiple microcontroller supervision for RF power accuracy.

+ **RELIABILITY**

- Built in line filter protects from voltage surges and bad line conditions hence no need to use Spike Buster.
- No need of voltage stabilizer, can work in lower voltage.
- Works on Generator, Inverter & UPS.
- Convection Cooling System offers better Reliability.
- Alan's proven track record for more than 13 years.

GENERAL FEATURES

- Feather touch membrane keyboard for Power, Mode, Program and Footswitch selection etc. for easy operation of Machine.
- Isolated Monopolar & Bipolar outputs.
- Simultaneous Coagulation for 2 surgeons in Monopolar mode.
- Monopolar outputs can be activated via Handswitch and Footswitch.
- Special EndoCut mode for Polypectomy & Papillotomy.
- Auto-Stop in Bipolar for optimum coagulation effect.
- Soft mode in Monopolar coagulation for delicate tissues.
- Additional Spray mode for non-contact coagulation.
- Digital volume control and audio-visual indications for all outputs.
- Timeout function.
- Restoration of previous activated power settings.
- instant power response against the tissue density & impedance variation and Adjust Power.
- PPCM monitors Split/Non-Split type patient plates and deactivates output power with audio-visual alarm during improper contact between patient and patient plate to eliminate the risk of patient burns.
- Using Alan's 3 pedal footswitch Monopolar and Bipolar can be operated without changing any settings in the machine.
- 3 Pedal Footswitch is explosion proof and water proof.
- Compatible with Wireless Footswitch.
- Well suited for Underwater (TURP), Micro, Major, Gynaec, General and all other Surgeries
- Maximum output of 400 Watts.

+ CLINICAL BENEFITS

MONOPOLAR CUTTING

- **Pure** : Monopolar Cut mode is for Underwater (TURP) and General Surgeries.
- **LowCut** : Mode specifically tailored for Laparoscopy.
- **Blend** : Cutting with Coagulation effect.
- **EndoCut** : Special mode for Polypectomy & Papillotomy.

MONOPOLAR COAGULATION

- **Spray** : Impulse modulated sinuous waveform for non-contact coagulation and (TURP) Underwater Procedures.
- **Fulgurate/ Force** : A low spray waveform suitable for non-contact coagulation on oozing surfaces and (TURP) underwater coagulation.
- **Desiccate** : Standard Coagulation Mode.
- **Soft** : Low voltage coagulation mode for delicate tissues.

BIPOLAR

- **Cut/Standard** : Best coagulation mode when used with graspers. especially designed for Bipolar Scissors.
- **Force/Macro** : Faster Bipolar Coagulation.
- **Micro/Precise** : Pinpoint coagulation for delicate tissues with less thermal spread
- **Auto-Stop** : For optimum coagulation effect.

RF OUTPUT CHARACTERISTICS

MONOPOLAR CUT

| | |
|---------|--|
| Pure | 400W @ 300 Ohms |
| Low Cut | 300W @ 300 Ohms |
| Blend | 250W @ 300 Ohms (5 Level) |
| EndoCut | 9 Levels CF- Variable Max. Power 200 W @ 300 Ohms |

MONOPOLAR COAGULATION MODES

| | |
|------------------|-----------------|
| Spray | 120W @ 500 Ohms |
| Fulgurate/ Force | 150W @ 500 Ohms |
| Desiccate | 120W @ 500 Ohms |
| Soft | 120W @ 200 Ohms |

BIPOLAR MODES

| | |
|----------------|-----------------|
| Cut / Standard | 120W @ 100 Ohms |
| Force / Macro | 100W @ 100 Ohms |
| Micro/Precise | 100W @ 100 Ohms |
| Auto | 40W |

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) |

* Optional Feature

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



Manufactured by, ®

ALAN

Since 1997

ALAN ELECTRONIC SYSTEMS PVT. LTD.

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