

Electro-surgical generator system Specifications

- ❖ Microprocessor / microcontroller technology for monopolar and Bipolar surgeries
- ❖ Should Automatically monitor tissue impedance & adjust power output to reduce damage & drag. featuring Constant Control Technology & contact quality monitoring for return electrode.
- ❖ Should have a fully automated Preset advanced cutting cut mode to provide a scalpel like cut effect with minimal thermal necrosis
- ❖ Should facilitate skin incision with minimal to no scarring like cold scalpels when used in combination with a special blade electrode designed to do so.
- ❖ Different audible tones to differentiate from Cut, Coag and Bipolar modes when activated
- ❖ Active mode setting should illuminate when in use for visual confirmation
- ❖ Should give ERROR codes in case of any Errors & fault in the unit
- ❖ Should have an easy-to-use 'reset' function
- ❖ Should have 2 receptacles each of Hand & Foot control for Monopolar output
- ❖ Should be activated either by Foot pedal or Hand control at surgeon's discretion without any switches or change over in the equipment to do so from any of the receptacles.
- ❖ Should switch back & forth from Monopolar to Bipolar mode or vice versa at surgeon's discretion without any switches or change over in the equipment to do so.
- ❖ Should have an in built current meter that shows the flow of current in Bipolar mode & indicate tissue dehydration.
- ❖ Should be defibrillator proof generator & should be denominated on equipment.
- ❖ Should be US FDA approved under section 510
- ❖ Should meet all applicable IEC standards
- ❖ Should have PER >98% for effective output in surgeries.

Technical specification:

- ❖ E.S. Generators operating frequency: 300 - 400KHz
- ❖ Equipment classification: IEC 60601-1 Class 1
- ❖ Equipment type: IEC 60601-1 Type CF
- ❖ Maximum peak to peak open circuit voltage of 760 at 100 ohms in Bipolar mode
- ❖ Maximum peak to peak open circuit voltage of 3000 at 300 ohms in Pure cut mode
- ❖ Maximum peak to peak open circuit voltage of 7200 at 500 ohms in Coag mode
- ❖ Monopolar should have 3 cut modes
 - 1) An advanced Preset Cut Mode to give scalpel like effect- with PRESET Power,
 - 2) Pure Cut Mode - Power up to 300 watts
 - 3) Blend Mode- Power up to 200 watts
- ❖ Monopolar should have 3 Coagulation modes up to 120W each Coag mode
- ❖ Should have 2 Bipolar modes Micro & Macro up to 80 watts each mode
- ❖ Reusable Capacitive coupling current quality monitoring electrode made of viscoelastic polymer.

Should come with following accessories:

- 1) Monopolar Dual foot pedal -01
- 2) Bipolar foot pedal -01 no
- 3) Monopolar Pencil - 50 nos
- 4) Patient return electrode monitoring - 50 nos

Technical specs of proposed
Alm