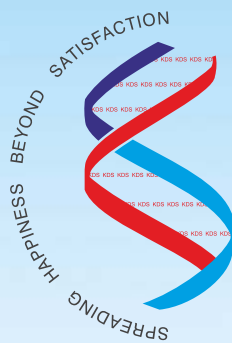


# Shelarak 400

Advanced programmable Microcontroller based  
Electro-surgical Generator



**K. D. SHELARAK**  
Medical Technologies

# Shelarak 400 TECHNICAL SPECIFICATION

## POWER SPECIFICATION

CUT:	COAGULATION:	BIPOLAR:	BIPOLAR CUT:
Pure : 400W at 500 O Load	Soft Coag : 80W at 500 O Load	Soft Coag : 80W at 100 O Load	Bipolar Cut 1 : 150W at 500 O Load
Blend 1 : 250W at 500 O Load	Force : 120W at 500 O Load	Force Coag : 80W at 100 O Load	Bipolar Cut 2 : 150W at 500 O Load
Blend 2 : 200W at 500 O Load	Spray : 120W at 500 O Load		
ENDO : 150W at 500 O Load			

## OUTPUT WAVEFORMS

### Monopolar Cut:

- a) Pure : 500 KHz, Pure Sinusoidal Waveform
- b) Blend 1 : 500 KHz, with modulated Sinusoidal Waveform
- c) Blend 2 : 500 KHz, pulse modulated Sinusoidal Waveform
- d) ENDO : 500 KHz, more modulated Sinusoidal Waveform

### Monopolar Coag:

- a) Soft Coag : 500 KHz, damped Sine-shaped repeated at 22KHz
- b) Force Coag : 500 KHz, with modulated Sine Shaped waveform
- c) Spray : 500 KHz, pulse modulated repeated at 31KHz

### Bipolar Cut:

- a) Bipolar Cut 1 : 500 KHz, Pure Sinusoidal Waveform
- b) Bipolar Cut 2 : 500 KHz, with modulated Sinusoidal Waveform

### Bipolar:

- a) Bipolar Soft : 500 KHz, with modulated Sinusoidal Waveform
- b) Bipolar Force : 500 KHz, with modulated Sinusoidal Waveform

### LEAKAGE CURRENTS:

RF leakage current – Low frequency leakage currents  
Monopolar : < 150 mA rms Normal Polarity, Intact ground : < 10  $\mu$  A  
Bipolar : < 60 mA rms Normal Polarity, Ground : < 50  $\mu$  A

### DESIGN STANDARD:

According to IEC 601-2-2 and IS 7583 safety & design standard.

**WEIGHT:** : 7 kg approx

**DIMENSION :** : L375mm X W350mm X H140mm

### MAIN CONNECTION:

Input voltage : 160V-280V AC SMPS  
Input Current : 6Amp

## FEATURES

1. Advanced 400W Microcontroller based Electrosurgical Generator.
2. Modes: Monopolar, Bipolar, Bipolar Cut.
3. 20 User Programmable modes.
4. Programmed with self-rectification algorithm to prevent software errors.
5. Real time monitoring of Patient Plate, HF Leakage and RF activation for enhanced patient safety.
6. Patient Electrode Monitoring System (PEMS) enables proper patient plate contact, ensuring safety.
7. Galvanically isolated Monopolar & Bipolar Circuits to prevent spray currents, thus improving the quality of output waveforms.
8. Separate output generator for Monopolar, Bipolar.
9. Stores Last program memory.
10. In-built stabilizer ensure constant rated surgical power output even with an input voltage fluctuation.
11. Shelarak 400 is user friendly and have required safety features for the doctors and patients.
12. Shelarak 400 doesn't produce any sort of neuro muscular stimulation.

## ACCESSORIES



**K. D. SHELARAK**  
Medical Technologies

108, Dom's Industrial Complex, Near Range Office, Vasai (E), Dist. Palghar - 401208.  
Tel. O : 7276 06 5500 | M : 9867 15 2287 | E : kdshelarak@gmail.com

Authorized Distributor

