

Add Hi-Tech Precision to your Surgical Expertise...

Excelling Through Excellence

Shalya Sigma+V

4th Generation 400W ESU



Complete range of
Electro Surgical Solutions

Technical Specifications of **Shalya Sigma+v** 400W Electrosurgery Unit

MONOPOLAR CUT : Pure Sine wave 390 kHz
Low - Continues, 300 W at 300 Ω , CF 1.5, Low Volt
Pure - Continues, 400 W at 300 Ω , CF 1.5, High Volt
Blend - Bursts 29 kHz, 250 W at 300 Ω , CF 2.5
Endo Cut - Pulse, 400 W at 300 Ω , CF 1.5

SEALER : Pure Sine wave 390 kHz
Rapid Seal - Pulse output mode, 3 level, 100 W at 100 Ω , CF 1.5

LEAKAGE CURRENTS

- RF leakage current • Monopolar : < 150 mA rms
 - Bipolar : < 60 mA rms
- Low Frequency leakage currents
 - Normal polarity, intact ground : < 10 μ A
 - Normal polarity, ground open : < 50 μ A

FEEDBACK SYSTEM

- 3 Microprocessor Controlled 6SENSE Technology with sampling rate above 4000 sense/second
- Maximum output power deviation < 15% or 5 watts, whichever is greater at any setting with PER-98

INPUT POWER (other ratings available on request)

Operating Voltage : 180-265 Volt AC, 50-60 Hz
Max. Power input : 1000 VA, Fuse : 6 A, UPS Backup : 1.2KVA

MONOPOLAR COAG : Damped Sine wave 460 kHz
Soft - Continues at 84 kHz, 150 W at 500 Ω , CF 4.0,
Swift - Repetition Frequency 42 kHz, 120 W at 500 Ω , CF 6.2
Fulgurate - Repetition Frequency 30 kHz, 120 W at 500 Ω , CF 7.0
Spray - Randomized Repetition 30 kHz < f < 50 kHz, 120W at 500 Ω , CF 8.0

BIPOLAR : Pure Sine wave 390 kHz
Micro - Continues output, 100 W at 100 Ω , CF 1.5, Low volt
Standard - Continues output, 100 W at 100 Ω , CF 1.5, Medium Volt
Force - Continues output, 100 W at 100 Ω , CF 1.5, High Volt
Bi Cut - Continues output, 100 W at 100 Ω , CF 1.5, High Volt, Rapid
Pulse Bi Cut - Pulse output, 100 W at 100 Ω , CF 1.5, High Volt

PREM SYSTEM

Measuring Frequency : 80 kHz \pm 10 kHz.
Measuring current : < 10 μ A
Acceptable Resistance Range
Dual Area PREM Patient Return Electrode : 5-135 Ω (Adaptive)
Single Area Patient Return Electrode : < 10 Ω

DESIGN STANDARD

Classification according to the EC- Directive 93/ 42/ EEC: Class IIb
General Safety Standards: IEC 60601-1-1, IEC 60601-2-2
EMI/EMC Compatibility Standard: IEC 60601-1-2
IS Safety Standard: IS 7583

DIMENSIONS

L x W x H in cm - 38 x 32 x 12, Weight in kg < 6

Note : Unit is available in other HF power ratings on request.

Features of **Shalya Sigma+v** 400W Electrosurgery Unit

5" LCD Touch Screen : allows quick, easy & interactive experience to users.

6SENSE Technology : maintains set power over wider range of tissue by Tissue Feedback Technology.

PREM level indication : of patient's contact with the return electrode along with audio-visual alarm.

Vessel Sealing Mode : seals upto **7mm** tissue bundles & vessels with reusable vessel sealing attachments.

Auto Stops : automatically RF current after completion of vessel sealing.

Endo Cut Mode : allows pulse interval controlled cutting for Polypectomy and Papillotomy.

Randomized SPRAY Coag : provides homogeneous, superficial & faster coagulation over larger area.

Pulse BiCut : for modern bipolar cutting application with minimal thermal damage.

Bipolar Cut & Coag modes : with independent display setting using its respective footswitch.

BiCoag Alarm : audio feedback after completion of Bipolar coag, reduces charring and sticking.

AutoBip (Optional) : automatic Start & Stop of Bipolar current by tissue sensing without foot switch activation.

Footswitch : enhanced with a toggle button to switch between modes along with on-screen indication.

Unit also supports **wireless** footswitch for clean & wire-free surgical environment.

Smart Surgical Assist : The program manger allow smart access to programs & settings.

Self-illuminating socket : helps during power settings and RF activation to indicate use of respective RF port.

Self Diagnosis : ensure the ESU with accessories are safe for functioning & display error codes if any.

User Programmable : 30 user setttable programs with procedure & surgeon name.

Remote Power Settings (Optional) : to change mode and power from sterile field by normal Handswitch Pencil.

Time Out Function (Optional) : automatically stops the HF output incase of prolonged activation.

Upgradability : Argon Beam Coagulation, Ultrasonic Aspirator, Smoke Evacuator, Suction Irrigation module.

Surgical Applications : Suitable for all kind of Open, Endoscopic, Laparoscopic and Minimally Invasive Surgery such as Plastic, Neuro, ENT, Spine, Opthal, Ortho, General Surgery, Onco, Gynecology, Hernia, GI Endocut, Papillotomy, Polypectomy, Under Water, Urology, Gynec, TCRE, Hysteroscopy, Thoracotomy, Thoracic and Cardiac Surgery.

Vessel Sealing Applications : Laparoscopic / Radical / Vaginal/ Abdominal Hysterectomy, Appendectomy, Colectomy, Cystectomy, Gastric Bypass, Hemorrhoidectomy, LAVH, Liver Resection, Nephrectomy, Nissen Fundoplication, Splenectomy.

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Shalya Extended Range



Shalya Vista



Shalya MX



Wireless Footswitch

