The Power house...

OUTPUT CHARACTERISTICS-ELECTROSURGICAL UNIT

ELECTRO SURGICAL UNIT	MODE	*PER	MAXIMUM P-P VOLTAGE	RATED LOAD (ohms)	MAX. POWER (WATTS)	**CREST FACTOR	DUTY CYCLE
BIPOLAR/ SALINE	Plasma Cut Plasma Coag	98	700 900	50 50	300 250	2.5 4.5	N/A N/A N/A
BIPOLAR 475 KHz	Micro/Coag Macro/Cut Plasma Bipolar Auto	98	480 480 295 290	100 100 100 100	250 250 250 250	2.5 1.5 1.5 1.5	N/A N/A N/A N/A
MONOPOLAR CUT 520KHz	Pure/Cut 1 Blend 1 Blend 2 Endo/Gastro Cut	98	1800 2500 2600 1500	300 500 500 200	400 200 200 250	1.5 2.4 3.4 1.8	N/A 75% 60 50%
MONOPOLAR COAG 450 KHz	Soft/Contact Desiccate Spray/Fulgurate Spray	97	2500 2300 6000 9500	150 150 500 500	150 150 150 150	4.6 4.4 7.2 10.0	25% 6.5% 4.6%

^{*} PER (Power Efficiency Rating): A measure of an electrosurgical generators ability to deliver the selected power into a wide range of impedance.

OUTPUT CHARACTERISTICS - RF VESSEL SEALER & RF SCALPEL™

Ligasealer Modes (At 2MHz-475 KHz)	Maximum Open Circuit Voltage V _{pp} (V _p)	Maximum Short Circuit Current (Amperes)	Maximum Power Setting (Watts)	**Crest Factor
Low (Seal)	340 (170)	2.1	95	1.5
Medium (Fusion)	770 (400)	2.1	125	1.5
High (RF)	580 (295)	4.2	300	1.5
RF (scalpel)	480 (300)	3.0	300	1.5

CERTIFIED TO IEC-60601-2-2, IEC 60601-1-2 & IEC 60601-1

Weight and Dimensions	Input Power Requirements		
Height: 25 cm Width: 33.5 cm Length: 47.0 cm Weight: 10 Kg.	Volts : 100-270 VAC Amps : 3-6A Input : 800 VA, 50/60 Hz		
Low Frequency Leakage (50-60Hz) Patient leakage < 10 uArms	Audio Volume The mode indicator tones are adjustable to a minimum level of 45 dba at 1 meter.		
High Frequency Leakage Less than 10 mA rms., all output	Operating Mode int 10s/30s		

DIVLABS HEALTHCARE PVT. LTD.

AN ISO 9001:2000 & ISO: 13485 COMPANY

Plot No. 17, 1st Floor, Kh. No. 44, Toganpura, Sector-9, Dwarka,

New Delhi-110077, Mob: +91 9811259555

Tel.: 91-11-28081996 E-mail: ceo.divlabs@gmail.com | office1.divlabs@gmail.com

Website: www.divlabsindia.com





Intuitive Energy Source with **RF Scalpel**[™] Technology





- Advance, Computerised Monopolar "ESU" with tissue impedance feedback technology and can measure 30 million measurement per second for better performance.
- Large intuitive Touch Screen Human Interface Energy Source with 6 Universal multi-functional sockets which can accommodate any instruments.
- Rapid cutting and reliable 7mm vessel sealing from a single surgical instrument (RF Scalpel) for open and laparoscopic procedure.
- Seal can withstand maximum blood pressure of 400mm of Hg.
- Advanced Dual Microprocessor feedback controlled ESU with output power of 400 W having 20 digital signal processors for High Frequency Cutting & Coagulation of biological tissue.
- High End RF Electrosurgical Generator with Monopolar, Bipolar, Vessel Sealer and Plasma Saline Bipolar Resection and compatible with Argon Plasma Coaglation System, Smoke evacuation system and Da Vinci Robotics Platform.
- User settable autostart and auto stop facility in bipolar coagulation with auto start delay facility of 0, 1 and 2 sec.
- Plug and Play feature automatically adjusts the specific parameters as soon as instrument connected and program is selected.
- Ten preset programs. Additional storage for upto 2000 user set programs.



^{**} Crest Factor is an indicator of a waveforms' ability to coagulate bleeders without cutting effect.

Intuitive User Interface...



Audio Patient Plate Alarm with visual pop-up

PROGRAM 2 Laparoscopic Surgery -RF Scalpel PROGRAM 1
Open Surgery
(Default Program)

Audio HF Leak Alarm with visual pop-up

CHECK HF LEAK





















PROGRAM 9 LLETZ/LEEP with "Smoke evacuation"

Different Foot switch Configurations

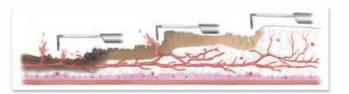




ADVANCE FEATURES

- ► The system has 10 Pre set & 2000 sub programmes which can be accessed remotely by user.
- ► The System inbuilt feature for accessory assignment & on screen display of Active instruments
- Advanced Dual Microprocessor feedback controlled "Intuitive" technology for high frequency cutting and coagulation/hemostasis of biological tissue by concentrating this energy at electrode tip to achieve different surgical effects like cutting, multiple blend levels, dessication, fulguration, Spray and vanourisation etc.
- Activation is both by footswitch and handswitch for all the different modalities monopolar, bipolar and Ligasealer (Vessel sealer).
- ► Different dedicated programs and accessories/instruments for Laparoscopic monopolar, bipolar, vessel sealer and RF Scalpel[™] (Program 1 and Program 2)
- ► All the vessel sealing, monopolar, RF Scalpel[™] and bipolar accessories of both open and laparoscopic surgeries are of Divlabs make.
- ► Intuitive "Pop Up" and audio signals for foll. events:
 - 1) Patient/neutral plate contact quality and connection for utmost patient safety.
 - HF Leak for monitoring and control of Leakage current.
 - 3) Re grasp-for incorrect application of Vessel sealing instrument.
 - 4) Seal complete Signal for the user to safely proceed with the cutter after successful sealing.
- ► RF Scalpel[™] Technology ensures Bipolar cut and coagulation at various levels.
- ▶ Bipolar controls are both automatic and by footswitch.
- Advanced Electro surgical system which provides consistent performance by using latest and reproducible technology used to command the functionality as the need of surgical application. It comes with 100 programs for different specialities. On site program facility possible. Three different modes of cut, coag and bipolar can be stored individually in each program. True digital power readout with dossage error control. Self diagnostic mode with error display (25 error messages) Spark sensor technology and RS-232 and Wifi.
- Multi-feature Monopolar With uro-cut, gastro-cut and spray coagulation for all demanding open and underwater procedures.
- PPCQM Patient to Patient plate Contact Quality Monitoring technology monitors the quality and quantity of contact between the patient and the patient plate. It this contact is not proper the unit deactivates & alarms, thus eliminating any risk of Passive electrode site burns.
- Support NESSY/REM Neutral Electrodes.

TRADITIONAL MONOPOLAR RESECTION



DIVLABS APC SYSTEM OPTIONAL



General advantages of the bipolar Divlabs system against monopolar resection: Optional

- ► No TURP Syndrome
- No Pulmonary edema and hyponatraemia as Saline is not toxic as compared to glycine
- Less conductive trauma, as the flow of the current between active and neutral electrode is strictly limited to the target area.
- Lower risk of capsular lesion.
- Less thermal damage to neighbouring tissues.

BIPOLAR PLASMA RESECTION

