



HV-400 LCD Touch Screen Electrosurgical Generator

HV-400 Electrosurgical Generator

Versatility in office-based Electrosurgery

For general electrosurgery needs in the office, clinics, or emergency room, the HV-400 generator provides exceptional performance, reliability, and safety benefits in a compact, easy to use unit.

Touch screen interface with high resolution TFT color display

Ease

Ease and quick to set up; compact and light

Save time with automatic access to previous used power settings and modes

Provides precise surgical effect with power control dials

Flexibility

Performs most common office-based electrosurgical procedures

Includes both monopolar and bipolar outputs

Reliability

Manufactured to the highest standards of quality in electrosurgical technology

Ensure consistent clinical performance over a variety of procedures

Safety

Increased patient safety with a return electrode contact quality monitoring system (REM). The REM system continually monitors patient impedance levels and deactivates the generator if a fault in the patient/return electrode contact is detected.

High Frequency leakage

Bipolar: less than 60mA

Monopolar: less than 150mA

Low frequency leakage

source current, patient leads, all outputs tied together

Normal polarity, intact chassis ground < 10 μ A

Normal polarity, ground open < 50 μ A

reverse polarity, ground open < 50 μ A

sink current, 140V applied, all inputs < 50 μ A

Power readouts

Agree with actual power into rated to within

\pm 20% or 5W, whichever is greater, Dossage

Error monitor.



Unique features of the HV-400 Electrosurgical Generator

Improved performance at lower power settings minimizes the risk of tissue damage and neuromuscular stimulation
Easy to use, cost effective system when performance is required and price is of equal concern

Ten monopolar cut modes: Pure cut, blend 1, 2, 3, 4, 5, 6, 7, 8, 9 offer surgeons a variety of choices:

Pure cut for a clean, precise cut

Blend 1-9: with coag effect at the same time of cutting, the coag degree increases gradually from blend 1-blend 9.

Four Monopolar coag modes: contact, desiccate, fulgurate and spray

Contact coag: provide rapid contact coag for cavity mirror surgery as well as other delicate tissue

Desiccate coag: suitable desiccation for tissue.

Fulgurate coag: suitable for most tissue coagulation.

Spray Coag: Suitable for Large tissue exudation, it will only form very shallow eschar. In combination with Argon Electro tome, it can reach rapid, large area coagulation and less eschar.

Two Bipolar cut modes: Bipolar pure cut and Blend cut;

Bipolar Pure cut: suitable for delicate pure cut surgery.

Bipolar blend cut: suitable for delicate blend cut surgery with hemostasis.

Two Bipolar coag modes: Bipolar standard coag and Bipolar precise coag;

Bipolar standard coag: suitable for bipolar neurosurgery as well as normal bipolar coag surgery, effectively avoid bipolar stick and over burn of the tissue.

Bipolar precise coag: Suitable for Neurosurgery and orthopedic surgery

Memory function could store up to 10 records;

Time-control Bipolar Coag output mode;

Two Pencil coag simultaneous working mode;

Designed with patient plate continuity monitoring circuit, this can effectively prevent electrical burns to patients;

Versatile system that is uniquely compatible with other, including:

Under water cut socket (endo cut)

HV argon coagulation system

Optimum Smoke Evacuation System-Clean air in the operation theatre

2. Applicable range

Applicable for general surgery, thoracic surgery, orthopedics, obstetrics and gynecology, urologic surgery, cerebral surgery, microsurgery, ENT surgery and etc.

Technical Specifications

Output Frequency 512Khz

Line Voltage: 110V/220V~

Line Frequency 50/60Kz

Weight and Dimentions

Height: 14cm

Width: 33cm

Length: 41cm

Weight: < 8.5kg

Output Characteristics

Working mode		Maximum P-P Voltage	Rated Load	Max. output power	Crest Factor (Typical)
Monopolar Cut	Pure	1900	500Ω	400W	1.6
	Blend 1/2/3	2300	500Ω	300W	2.5
	Blend 4/5/6	2500	500Ω	200W	2.8
	Blend 7/8/9	2800	500Ω	150W	2.9
Monopolar Coag	Contact	3000	300Ω	150W	3.1
	Dessication	3000	300Ω	150W	3.3
	Fulgurate	5500	500Ω	120W	5.7
	Spray	6000	500Ω	120W	6.1
Bipolar Cut	Pure	480	100Ω	99W	1.4
	Blend	550	100Ω	99W	1.4
Bipolar Coag	Precise	380	100Ω	50W	1.7
	Standard	590	100Ω	99W	1.7

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