

Electrosurgical generator

# EB03D

For standard and under-water electrosurgery

## Technical specification

Monopolar				
Cutting mode	Max. power output (watts)	Load (ohms)	Open circuit Vp-p	Crest factor
Pure	350w	500 Ω	2,100	1.5
Blend1	300w	500 Ω	2,700	2.1
Blend2	200w	500 Ω	4,600	3.1
Blend3	150w	500 Ω	5,100	4.1
Coagulation mode				
Point	100w	500 Ω	5,600	4.8
Soft	100w	500 Ω	5,200	4.8
Bipolar				
Coagulation mode				
Standard	50w	100 Ω	330	1.5

## Other

Accessory & supply connection	
Finger-switch pencil	1
Bipolar forceps	1
Foot-switch pencil	2
Patient return electrode	1
Foot-switch	2
AC power supply	1
Equipotential bonding	1
Surgical smoke evacuator	1 (but surgical smoke evacuator is optional)
Power feature	
Rate frequency	512 kHz (110/240vAC, 60/50Hz)
Isolated output	YES
Quantitative display of contact area	YES, for "Split" type of neutral electrode
Contact area indicator lamp	10 lamps (one for 10% contact), alarm beep and flicker if contact < 20%
Split/solid neutral electrode definition	YES, "Split" or "Solid" indicator lamp lights up
Adjustable alarm volume	YES
Operational duty cycle	10 seconds ON, 30 seconds OFF
Cooling method	Convection
Regulation	
Type according to EN 60601-1	CF
Protection class to EN 60601-1	class I
Classification acc.to MDD 93/42/EEC	IIB
Physical	
Dimension (WxDxH)	330 x 450 x 150 mm
Weight	7.0 kg



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## Product overview

New EB03D electrosurgical generator comes up with two simultaneous monopolar and one bipolar working output.

She has integrated 7 different modes with working power range 50~350 watts, tissue responding and automatic return electrode monitoring to give intuitive indication of potential burn risk that enables highly efficient and safe surgical cutting and coagulation through all types of tissue.



## Features

### Smaller footprint

The new EB03D has optimized the structural design and reduced weight and volume both by 50%, can be easily mounted onto the support tray of ceiling pendant for endoscopic application.

### Splash-proof design

The "arrow" shaped front design separates working area from accessory connections. Thanks to its slightly folded edge, any liquid onto the control panel will never reach into the power socket underneath if accidental splash happens in operating theatre.

### Separate control and measurement

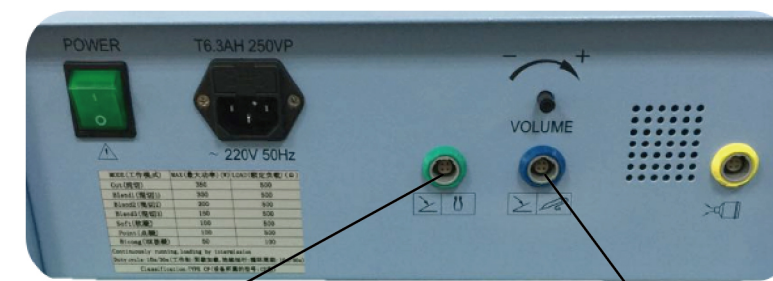
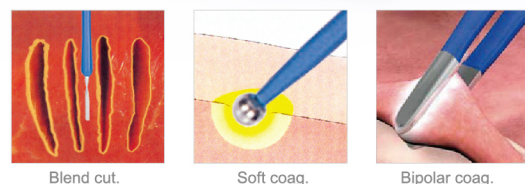
Front panel of new EB03D consists of two differently sloped areas, 130° sloped "Measurement area" and 160° sloped "Control area", to provide operator great physical comfort when they setup or adjust power setting, and observe the power measurement and neutral electrode's contact situation from an ergonomic viewing angle and height.

### Surgical smoke evacuation (optional)

Heat-producing surgical methods (like electrosurgery or laser) mostly bring surgical smoke that contain hazardous (like acrylonitrile and hydrogen cyanide) which may blur surgical vision (especially for procedures into cavity) and cause harm to respiratory systems of patients, surgeons or operating theatre staff.

### Tissue impedance based power output

Resistance from nerve, muscle, adipose tissue and bone to electrical circuits vary. Impedance response technology in EB03D electrosurgical system measures the tissue resistance then automatically adjust power output under preset range, to optimize real cutting or coagulation performance, which makes EB03D system qualified for wide range of applications, from various open surgeries to minimal-access procedures, as well as under-water operation in Gynaecology and Urology.



Bipolar Foot Switch Socket

Monopolar Foot Switch Socket

## Optional electrosurgical Accessories

\*All specifications and figures are subject to change without notice

\* If the accessories you need are not listed here, please consult our international distributors or sales representatives

### Pencil (or called electrode holder) and control

Ordering No	Description	Remark
MD1000-SK	Finger-switch pencil	Disposable
MD1000(JK)	Foot-switch pencil	Disposable
MD4000	Bipolar forceps without cable, bayonet-shaped, Tip 1mm/Size 200mm	Reusable
MD4000-XC	Connecting cable for bipolar forceps, 3 meters	Reusable



### Electrode

Ordering No	Description	Remark
MD100069	Blade electrode, 70mm shaft, sterile	Disposable
MD100069E	Needle electrode, 70mm shaft, sterile	Disposable
MD10005F	Ball electrode (Φ5mm), 70mm shaft, sterile	Disposable
MD100010C	Semi-round loop, W*D=15*10mm, 150mm shaft, sterile	Disposable
MD100015A	Comization, H*W=15*10mm, 150 shaft, sterile	Disposable



### Patient return electrode

Ordering No	Description	Remark
GP202S-A	Patient return electrode without cable, split type, for Adult	Disposable
GP202D-A	Patient return electrode without cable, solid type, for Adult	Disposable
GP202S-P	Patient return electrode without cable, split type, for Children	Disposable
MD2000	Connecting cable for disposable patient return electrode (solid/split type), 3 meters	Disposable



### Other accessories

Ordering No	Description	Remark
7SB-FQJ-001	Cable for connecting electrosurgical unit and celioscope	
7BZ-HFSUTC-001	Mobile cart for EB03D electrosurgical unit	
DDFJ-10-00	Adaptor for thick or thin pin-leg to electrosurgical unit, Φ7mm to Φ6.3mm	
DDFJ-20-00	Adaptor for thick or thin pin-leg to electrosurgical unit, Φ8.5mm to Φ6.3mm	

