

## Surgical Tissue Management System Electrosurgical Generator **ESG-400**



# Electrosurgical Generator

## ESG-400



### ESG-400 Features and Benefits

Full-range of monopolar and bipolar modes	<ul style="list-style-type: none"> <li>Perform open, lap and endoscopic surgery procedures</li> </ul>
Tissue-adaptive power output	<ul style="list-style-type: none"> <li>Apply the optimal amount of energy</li> <li>Controlled, precise and quick cutting</li> </ul>
Touch screen	<ul style="list-style-type: none"> <li>Choose settings easily</li> </ul>
Quick memory function	<ul style="list-style-type: none"> <li>Find your preferred settings easily</li> </ul>
Instrument recognition	<ul style="list-style-type: none"> <li>Plug &amp; Play at the Olympus „UNIVERSAL“ socket</li> </ul>
New saline modes (for bipolar resection)	<ul style="list-style-type: none"> <li>Improved ignition performance</li> <li>Continuous vaporization</li> </ul>
Saline detection	<ul style="list-style-type: none"> <li>Be certain that you are using the right fluid</li> </ul>
Compatibility with Olympus equipment:	
- USG-400	<ul style="list-style-type: none"> <li>THUNDERBEAT instrument</li> </ul>
- ENDOALPHA	<ul style="list-style-type: none"> <li>OR Integration</li> </ul>
- UHI	<ul style="list-style-type: none"> <li>Automatic smoke evacuation</li> </ul>

### ESG-400 Technical Specifications

Power supply	
Voltage range	100...120 V- / 220...240 V-
Frequency	50 / 60 Hz
Maximum input power	1500 VA
Power fuse	10 A (only FST-series from Schurter)
Terminal for potential equalization	Yes

### Output

High frequency functions	Monopolar / Bipolar
High frequency	430 kHz $\pm$ 20%
Maximum high frequency power	320 W
All modes	25% duty cycle
RFCoag (with or without RCAP)	100% duty cycle

### Classification

Protection class according to IEC 60601-1	CF, Class I
Classification according to MDD 93/42/EEC	IIb

### Sockets

MONOPOLAR	2 x 3-pin ( $\varnothing$ 4 mm), International standard 1 x 1-pin ( $\varnothing$ 8 mm), Bovie standard 1 x coaxial ( $\varnothing$ inner 5 mm / $\varnothing$ outer 9 mm), Erbe standard
BIPOLAR	1 x 2-pin ( $\varnothing$ 4 mm, pin spacing 28.8 mm), International standard 1 x coaxial ( $\varnothing$ inner 4 mm / $\varnothing$ outer 8 mm), Erbe standard
UNIVERSAL	1 x 7-pin, Olympus standard
Neutral electrode	2-pin standard, single or split

### Size and weight

Width x Depth x Height	370 x 465 x 156 mm
Weight	12.5 kg

### Operation environment

Temperature	+ 10...+ 40°C (+ 50...+ 104°F)
Relative humidity	30...85%, non-condensing
Atmospheric pressure	70...106 kPa

### Output characteristics

	Mode	Maximum output voltage [Vp]	Maximum power level [W]
MONOPOLAR	CUT	PureCut	740
		BlendCut	1400
	COAG	PulseCut slow	800
		PulseCut fast	800
		SoftCoag	220
BIPOLAR	CUT	PowerCoag	2500
		ForcedCoag	2000
	COAG	SprayCoag	4300
		BipolarCut	700
		SalineCut	700
BIPOLAR	CUT	BiSoftCoag	220
		AutoCoag	220
	COAG	SalineCoag	230
		HardCoag	220
		RFCoag	220
	FineCoag	220	

### Order information

Article	Article number	Additional information
ESG-400 electrosurgical generator*	WB91051W	
Footswitch double pedal	WB50402W	
Footswitch single pedal	WB50403W	
Power cable, EU, 4.5m, with angled plug	WA95621A	Many European countries, Type E/F
Power cable, US, 4.5m, with angled plug	WA95622A	USA, Canada and other countries, Type B
Power cable, UK, 4.5m, with angled plug	WA95623A	United Kingdom and other countries, Type G
ESG-400 SALINE cable	WA00014A	
Energy cart	TC-E400	
Neutral electrode cable (reusable)	MAJ-814	

\* Including one double footswitch.

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