

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

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	300
		BlendCut	1400	200
		PulseCut slow	800	150
		PulseCut fast	800	150
		COAG	SoftCoag	220
PowerCoag	2500		120	
ForcedCoag	2000		120	
SprayCoag	4300		120	
BIPOLAR	CUT		BipolarCut	700
		SalineCut	700	320
	COAG	BiSoftCoag	220	120
		AutoCoag	220	120
		SalineCoag	230	200
		HardCoag	220	120
		RFCoag	220	50
		FineCoag	220	40

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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