

ELECTROSURGICAL GENERATOR

ESG-400

Surgical Tissue Management System



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ESG-400 Features and Benefits

Wide range of monopolar and bipolar modes	<ul style="list-style-type: none"> Perform open, laparoscopic 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
Saline modes for bipolar resection	<ul style="list-style-type: none"> Continuous plasma ignition and vaporization
Saline detection	<ul style="list-style-type: none"> Make sure that you are using the right fluid
Compatibility with Olympus equipment:	
- USG-400	<ul style="list-style-type: none"> THUNDERBEAT instrument
- POWERSEAL instruments	<ul style="list-style-type: none"> Advanced Bipolar Energy Devices
- PK Instruments	<ul style="list-style-type: none"> Versatile laparoscopic GYN surgery
- 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
Fuse (IEC/EN 60127)	250 V / T 10 AH
Terminal for potential equalization	Yes

Output

High frequency functions	Monopolar/Bipolar
High frequency	430 kHz ± 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 (Ø 4 mm), International standard 1 x 1-pin (Ø 8 mm), Bovie standard 1 x coaxial (Ø inner 5 mm / Ø outer 9 mm), Erbe standard
BIPOLAR	1 x 2-pin (Ø 4 mm, pin spacing 28.8 mm), International standard 1 x coaxial (Ø inner 4 mm / Ø 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 to 40 °C (50 to 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
		FineCut	560	120
	COAG	SoftCoag	220	200
		PowerCoag	2000	120
		ForcedCoag	2000	120
		SprayCoag	4300	120
		BIPOLAR	CUT	BipolarCut
SalineCut	700			320
PK PureCut	510			200
COAG	PK SoftCut		580	200
	PK LoopCut		590	200
	PK MorceCut		560	300
	BiSoftCoag		220	120
	AutoCoag		220	120
	SalineCoag		230	200
	Finecoag		220	40
	HardCoag		220	120
	RFCoag		220	50
	FineCoag		220	40
	PK Coag		220	120
	PK SoftCoag		220	120
PK AutoCoag	220	120		

Order information

Article	Article number	Additional information
ESG-400*	WB91051W WB91051J WB91051C	Rest of World Japan China
Foot switch, double pedal	WB50402W	
Foot switch, single pedal	WB50403W	
Power cable, EU, 4.5 m, with angled plug	WA95621A	Many European countries, Type E/F
Power cable, US, 4.5 m, with angled plug	WA95622A	USA, Canada and other countries, Type B
Power cable, UK, 4.5 m, with angled plug	WA95623A	United Kingdom and other countries, Type G
Power cable, JP, 4.5 m, with angled plug	N5995310	Japan, Type A
Energy Cart TC-E400	N3635750	
Reusable cable for neutral electrode (4.5 m)	WA99510A	
P-Cord for disposable neutral electrode	E0427213	MAJ-814

* Including one double-pedal foot switch.