

OLYMPUS

Your Vision, Our Future

ELECTROSURGICAL GENERATOR
ESG-400
Surgical Tissue Management System



ELECTROSURGICAL GENERATOR ESG-400

ESG-400 Features and Benefits

Full range of monopolar and bipolar modes	■ Perform open, lap and endoscopic surgery procedures
Tissue-adaptive power output	■ Apply the optimal amount of energy
	■ Controlled, precise and quick cutting
Touch screen	■ Choose settings easily
Quick memory function	■ Find your preferred settings easily
Instrument recognition	■ Plug & Play at the Olympus UNIVERSAL socket
New saline modes (for bipolar resection)	■ Improved ignition performance
	■ Continuous vaporization
Saline detection	■ Make sure that you are using the right fluid
Compatibility with Olympus equipment:	
- USG-400	■ THUNDERBEAT instrument
- PK Instruments* (new)	■ PK Modes
- ENDOALPHA	■ OR integration
- UHI	■ 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 ± 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	2500	120
		ForcedCoag	2000	120
		SprayCoag	4300	120
BIPOLAR	CUT	BipolarCut	700	100
		SalineCut	700	320
		PK PureCut	510	200
		PK SoftCut	580	200
		PK LoopCut	590	200
	COAG	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 electrosurgical generator*	WB91051W	
Footswitch double pedal	WB50402W	
Footswitch 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
ESG-400 SALINE cable	WA00014A	
Energy cart	TC-E400	
Neutral electrode cable (reusable)	MAJ-814	

* Including one double footswitch.