

Ultrasonic Bipolar Generator

USG-410



USG-410

World's First*¹ Combined Energy Generator

The USG-410 is the world's first*¹ generator which activates both ultrasonic and bipolar energy simultaneously in a single unit, while maintaining the same 7mm reliable sealing and fast tissue-cutting capability as its legacy generators*².



Stand-alone generator for THUNDERBEAT & SONICBEAT

Allows hospital to activate both THUNDERBEAT and SONICBEAT with a single generator.



34% Shorter Sealing Time

Up to 34% shorter sealing times compared to legacy generators.*³



Onsite Safety Verification with MAJ-2299

The USG-410 allows user to conduct electrical safety testing and output measurement.



Intelligent Tissue Monitoring

The unique Thermal Management technology helps to stop ultrasonic activation by detecting the tissue condition.

*¹ As of November 2019. *² Ultrasonic Generator USG-400 and Electrosurgical Generator ESG-400 *³ Based on a benchtop test using vessels up to 2 mm comparing the SEAL mode's time of THUNDERBEAT Type S with USG-410 vs. Electrosurgical Generator ESG-400 and Ultrasonic Generator USG-400. (Both condition set under default level) (N=30, P<0.01)

USG-410 Specifications		
Power Supply**	Voltage / fluctuation	100-120/220-240 V AC/Within ±10%
	Frequency / fluctuation	50/60 Hz / Within 1 Hz
	Input	350 VA
Size	Dimensions	375(W) x 106(H) x 360(D) mm
	Weight	9.0 kg
Classification (medical electrical equipment)	Type of protection against electric shock	Class I
	Degree of protection against electric shock	CF type
	Degree of protection against explosion	The USG-410 should be kept away from flammable gases.
Output	Applicable instrument	THUNDERBEAT, SONICBEAT
	ON/OFF operation	Footswitch, Handswitch
	Output setting	Output setting and Intelligent Tissue Monitoring setting can be changed on the touch screen of USG-410.
	Frequency	47.0 kHz
GUI Language	29 languages	English, Japanese, German, Chinese, French, Spanish, Italian, Portuguese, Danish, Swedish, Greek, Czech, Lithuanian, Finnish, Norwegian, Hungarian, Croatian, Slovenian, Dutch, Serbian, Polish, Russian, Romanian, Turkish, Estonian, Latvian, Slovak, Korean, Bulgarian

TC-E410 Specifications	
Dimensions	515(W) x 1160(H) x 620(D) mm
Weight	55 kg unladen, with multiple socket-outlet
Load Capacity	30 kg on each shelf (without tray)
Casters	4 x φ125 mm dia., with each brake on 2 casters

USG-410 Ordering information	
USG-410	ULTRASONIC BIPOLEAR GENERATOR

Option	
MAJ-2299	Output Verification Adapter for USG-410
MAJ-2412	SONICBEAT Footswitch Connector
MAJ-1869	Footswitch for SONICBEAT
MAJ-1870	Footswitch for THUNDERBEAT
MAJ-1872	Communication cable 10 m* ⁴
MAJ-1873	Adapter for UHI-2/3
TC-E410	Energy Cart

*⁴ Required for the automatic mist and smoke evacuation function.

**It is recommended to use the power cords provided by Olympus. Please contact your local sales rep or your local Olympus office for further information.

Specifications, design and accessories are subject to change without any notice or obligation on the part of the manufacturer.



OLYMPUS EUROPA SE & CO. KG
 Postbox 10 49 08, 20034 Hamburg, Germany
 Wendenstrasse 14-18, 20097 Hamburg, Germany
 Phone: +49 40 23773-0, Fax: +49 40 233765
 www.olympus-europa.com