



The Olympus THUNDERBEAT Universal Platform with the ESG-400 and USG-400 is a full-featured energy system that delivers virtually every known form of surgical energy: monopolar, bipolar, advanced bipolar, and ultrasonic, making it the world's only integration of advanced bipolar with ultrasonic energy. This multifunctional platform is ideal for facilities looking to maximize cost and procedural efficiencies by standardizing on their choice of energy systems. The THUNDERBEAT energy system includes the ESG-400 Electrosurgical Generator and the USG-400 Ultrasonic Generator.

- ESG-400: The ESG-400 Electrosurgical Generator delivers monopolar, bipolar and advanced bipolar surgical energy to support all surgical applications for open, laparoscopic, and endoscopic applications.
- USG-400: The USG-400 Generator delivers ultrasonic energy for simultaneous cut and coagulation of tissue for use with SONICBEAT Handpieces. When used in conjunction with the ESG-400, the USG-400 delivers integrated bipolar and ultrasonic energy to THUNDERBEAT handpieces for reliable vessel sealing and to cut or coagulate soft tissue during open, laparoscopic (including single-site surgery), and endoscopic surgery.



# Specifications

## ESG 400 Eletrosurgical Generator

### Dimensions

Height: 6.1 in. (15.6 cm)  
Width: 14.5 in. (37 cm)  
Depth: 18.3 in. (46.5 cm)  
Weight: 27.6 lbs (12.5 kg)

### Power

Voltage Range: 100 to 120 V~ / 220 to 240 V~  
Frequency: 50/60 Hz  
Maximum Input Power: 1,500 VA  
Power Fuse: 10 A (only FST-series from Schurter)  
High Frequency Functions: Monopolar / bipolar  
High Frequency: 430 kHz  $\pm$  20%  
Maximum High Frequency Power: 320 W

## USG 400 Ultrasonic Generator

### Dimensions

Height: 6.1 in. (15.6 cm)  
Width: 14.7 in (37.5 cm)  
Depth: 18.9 in (48 cm)  
Weight: 19.8 lbs (9kg)

### Power

Voltage Range: 120 VAC  
Frequency: 50/60 Hz  
Maximum Input Power: 360 VA  
Power Fuse: 4 A, 250 V (  $\varnothing$ 5 x 20 mm)