

# Biomed Technical Information Sheet

## MEGADYNE™ Electrosurgical Generator

### Device information

- Powers the core energy devices critical to performing surgery<sup>1</sup>
- Designed to optimize energy delivery to minimize tissue damage through proprietary software and algorithms<sup>2</sup>
- Provides multiple cut, coagulation, bipolar modes and power settings
- Streamlined user-friendly design
- Power displays that are easy to read in multiple OR lighting conditions<sup>3</sup>



### Recommended maintenance

- Safety checks, preventative maintenance and calibration testing: Annually
  - See product service manual for calibration testing specifics
- If safety checks and preventative maintenance show generator is out of tolerance, service may be required



### Available support

- 24/7 technical support offered through 1-877-ETHICON (384-4266) at no charge
  - Experienced biomedical technicians provide information on troubleshooting, repair and maintenance



### Warranty information

- One year, under normal use and maintenance
  - Manufacturer will repair/replace defective parts free of charge
- Unauthorized repair or unspecified use voids manufacturer's warranty
- Extended warranty available to cover generator after manufacturer's warranty period

## Technical specifications

<b>Type and rating of fuses</b>	2 each F100/250VAC, Schurter Inc. Type FSF
<b>Class of protection against electrical shock</b>	Class I
<b>Degree of protection against electrical shock</b>	CF
<b>Ingress protection</b>	Generator: UL 60601-1, IEC 60601-2-2 Footswitches: IP68
<b>Main input</b>	100-240V, 50/60Hz
<b>Output</b>	See chart below
<b>Ambient operating conditions</b>	Temperature: 10°C (50°F) - 40°C (104°F) Humidity: 15%-75%, non-condensing Atmospheric pressure: 700hPa (10.2psi) - 1060hPa (15.37psi)
<b>Transport and storage conditions</b>	Temperature: -40°C (-40°F) - 70°C (158°F) Humidity: 10%-95%, condensing Atmospheric pressure: 500hPa (7.25psi) - 1060hPa (15.37psi)

## Output power characteristics

Mode	Power (Watts)	Output tolerance* (Rated load)	Rated load (Ohms)	Maximum open circuit voltage (Vp-p)	Maximum current (Amps)	Operating frequency (Rated load)	Crest factor nominal @ (Rated load)
<b>Monopolar cutting</b>							
GEM	150	20%	200	860	1.2	400kHz	1.6
PURE	300	20%	300	1500	1.1	400kHz	1.6
BLEND	200	20%	300	2500	1.0	400kHz	2.5
<b>Monopolar coagulation</b>							
COAG 1	120	20%	500	5000	1.4	2.5µs pulse @ 32kHz	6.9
COAG 2	120	20%	500	4900	1.4	2.5µs pulse @ 30kHz	7.1
SPRAY	120	20%	500	5800	1.4	2.5µs pulse @ 22kHz	8.2
SOFT COAG	120	20%	140	470	1.1	400kHz	1.6
<b>Bipolar</b>							
MICRO	80	20%	100	450	1.7	400kHz	1.6
MACRO	80	20%	100	590	1.7	400kHz	1.6

\*or 5 watts, whichever is greater

## Physical characteristics

Product	Dimensions	Weight
MEGADYNE™ Electrosurgical Generator	36.8cm (14.5") x 43.9cm (17.3") x 17.9cm (7.1")	7.71kg (17lbs)
MEGADYNE™ Mega Cart with Accessory Shelf	52.1cm (20.5") x 64.8cm (25.5") x 105.4cm (41.5")	17.7kg (39lbs)
Monopolar Footswitch	34.3cm (13.5") x 17.8cm (7") x 7.6cm (3")	2.91kg (6.4lbs)
Bipolar Footswitch	16.5cm (6.5") x 15.2cm (6") x 4.4cm (1.75")	1.67kg (3.7lbs)
Round Bipolar Footswitch	10.2cm (4") x 10.2cm (4") x 3.8cm (1.5")	0.7kg (1.5lbs)



MEGADYNE™  
Electrosurgical Generator  
MEGEN1



MEGADYNE™ Mega Cart  
with Accessory Shelf  
13005J



Monopolar  
Footswitch  
1400JJ



Bipolar  
Footswitch  
1450J



Round Bipolar  
Footswitch  
1459J



Monopolar  
Adapter  
96007

For more information, visit: [ethicon.com/SimplySmart](http://ethicon.com/SimplySmart)