

Technical Information Sheet

MEGADYNE™ Electrosurgical Generator

Device information

The ETHICON MEGADYNE™ Electrosurgical Generator:

- Is designed to optimize energy delivery to minimize tissue damage through proprietary software and algorithms^{1-4*}
- Provides multiple cut, coagulation, bipolar modes and power settings to optimize the delivery of energy for the targeted tissue⁵
- Is designed to provide a simple set up.^{1,2,4,7}
- The power displays of the ETHICON MEGADYNE™ Electrosurgical Generator are easy to read in multiple OR lighting conditions^{5,6**}



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

- Please contact your local Sales Representative



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

*When used in combination with a MEGADYNE ACE/GEM electrode

**16 out of 18 (88.9%) nurses surveyed agreed following use of the generator in a pre-clinical assessment

1. Ethicon Megadyne Electrosurgical Generator (MEGEN1) Technical Design Memo, February 2020, Data on File (132814-200218, 132829-200218) 2. GEM Technical Monograph, October 2017, Data on File (132814-200218, 132829-200218) 3. Ethicon Megadyne ESU Thermal Effects on Tissue, December 2018, Data on File (132814-200218) 4. Golden Gate Marketing Claims Memo, June 2019, Data on File (132814-200218, 132829-200218) 5. As Per Instructions For Use (133026-200220, 132635-200217) 6. Ethicon, MKT-DOC-001, Golden Gate Marketing Claims Memo, Sept 2019, Data on File (132635-200217, 132829-200218) 7. Summative usability and design validation protocol, June 2019, Data on File (132829-200218)

Technical specifications

Type and rating of fuses	2 each F100/250VAC, Schurter Inc. Type FSF
Class of protection against electrical shock	Class I
Degree of protection against electrical shock	CF
Ingress protection	Generator: UL 60601-1, IEC 60601-2-2 Footswitches: IP68
Main input	100-240V, 50/60Hz
Output	See chart below
Ambient operating conditions	Temperature: 10°C (50°F) - 40°C (104°F) Humidity: 15%-75%, non-condensing Atmospheric pressure: 700hPa (10.2psi) - 1060hPa (15.37psi)
Transport and storage conditions	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)
Monopolar cutting							
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
Monopolar coagulation							
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
Bipolar							
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 Top Shelf
1300SJ



Monopolar
Footswitch
1400JJ



Bipolar
Footswitch
1450J



Round Bipolar
Footswitch
1459J



Monopolar
Adapter
96007

For more information, visit:
www.jnjmedicaldevices.com

Please refer always to the Instructions for Use / Package Insert that come with the device for the most current and complete instructions.

Ethicon Endo-Surgery (Europe) GmbH
Hummelsbütteler Steindamm 71
22851 Norderstedt, Germany