Biomed Technical Information Sheet

MEGADYNE™ Electrosurgical Generator

Device information

- Powers the core energy devices critical to performing surgery
- Designed to optimize energy delivery to minimize tissue damage through proprietary software and algorithms
- 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

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

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2. When used in combination with a MEGADYNE™ ACE/GEM electrode. (132814-200218)
3. 16 out of 18 (88.9%) nurses surveyed agreed following use of the generator in a preclinical assessment. (127012-191105)

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3. 16 out of 18 (88.9%) nurses surveyed agreed following use of the generator in a preclinical assessment. (127012-191105)
Technical specifications

Type and rating of fuses  
2 each F10.0/250VAC, 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

<table>
<thead>
<tr>
<th>Mode</th>
<th>Power (Watts)</th>
<th>Output tolerance* (Rated load)</th>
<th>Rated load (Ohms)</th>
<th>Maximum open circuit voltage (Vp-p)</th>
<th>Maximum current (Amps)</th>
<th>Operating frequency (Rated load)</th>
<th>Crest factor nominal @ (Rated load)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monopolar cutting</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEM</td>
<td>150</td>
<td>20%</td>
<td>200</td>
<td>860</td>
<td>12</td>
<td>400kHz</td>
<td>16</td>
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<tr>
<td>PURE</td>
<td>300</td>
<td>20%</td>
<td>300</td>
<td>1500</td>
<td>11</td>
<td>400kHz</td>
<td>16</td>
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<tr>
<td>BLEND</td>
<td>200</td>
<td>20%</td>
<td>300</td>
<td>2500</td>
<td>10</td>
<td>400kHz</td>
<td>2.5</td>
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<tr>
<td>Monopolar coagulation</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>COAG 1</td>
<td>120</td>
<td>20%</td>
<td>500</td>
<td>5000</td>
<td>14</td>
<td>2.5μs pulse @ 32kHz</td>
<td>6.9</td>
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<tr>
<td>COAG 2</td>
<td>120</td>
<td>20%</td>
<td>500</td>
<td>4900</td>
<td>14</td>
<td>2.5μs pulse @ 30kHz</td>
<td>7.1</td>
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<tr>
<td>SPRAY</td>
<td>120</td>
<td>20%</td>
<td>500</td>
<td>5800</td>
<td>14</td>
<td>2.5μs pulse @ 22kHz</td>
<td>8.2</td>
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<tr>
<td>SOFT COAG</td>
<td>120</td>
<td>20%</td>
<td>140</td>
<td>470</td>
<td>11</td>
<td>400kHz</td>
<td>16</td>
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<tr>
<td>Bipolar</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MICRO</td>
<td>80</td>
<td>20%</td>
<td>100</td>
<td>450</td>
<td>17</td>
<td>400kHz</td>
<td>16</td>
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<tr>
<td>MACRO</td>
<td>80</td>
<td>20%</td>
<td>100</td>
<td>590</td>
<td>17</td>
<td>400kHz</td>
<td>16</td>
</tr>
</tbody>
</table>

*or 5 watts, whichever is greater

Physical characteristics

<table>
<thead>
<tr>
<th>Product</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEGADYNE™ Electrosurgical Generator</td>
<td>36.8cm (14.5&quot;) x 43.9cm (17.3&quot;) x 17.9cm (7&quot;)</td>
<td>7.71kg (17lbs)</td>
</tr>
<tr>
<td>MEGADYNE™ Mega Cart with Accessory Shelf</td>
<td>52.1cm (20.5&quot;) x 64.8cm (25.5&quot;) x 105.4cm (41.5&quot;)</td>
<td>17.7kg (39lbs)</td>
</tr>
<tr>
<td>Monopolar Footswitch</td>
<td>34.3cm (13.5&quot;) x 178cm (7&quot;) x 76cm (3&quot;)</td>
<td>2.91kg (6.4lbs)</td>
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<tr>
<td>Bipolar Footswitch</td>
<td>16.5cm (6.5&quot;) x 15.2cm (6&quot;) x 4.4cm (1.75&quot;)</td>
<td>16.7kg (3.7lbs)</td>
</tr>
<tr>
<td>Round Bipolar Footswitch</td>
<td>10.2cm (4&quot;) x 10.2cm (4&quot;) x 3.8cm (1.5&quot;)</td>
<td>0.7kg (1.5lbs)</td>
</tr>
</tbody>
</table>

For more information, visit: ethicon.com/SimplySmart