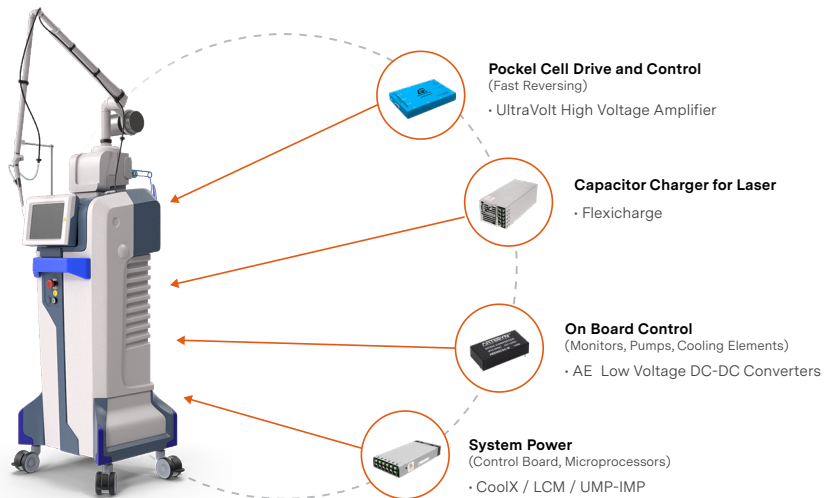


# Surgical Lasers

The surgical lasers market requires precision power supplies to ensure optimum performance for a variety of surgical treatments in areas such as ophthalmology, lithotripsy, vessel sealing, tumour treatment, dental and skin treatments. The continuing increase in surgical procedures utilising lasers is driving the need for faster system development cycles to meet these needs. These mobile, portable, or fixed installation systems require power supplies that can deliver multiple isolated output voltages in a compact package size. Advanced Energy's leading edge high efficiency, high power density medically approved power solutions, allow for system prototyping and shorten system development times, enabling rapid deployment of customer systems. We closely collaborate with customers, leveraging our extensive applications expertise in high voltage and fast-switching applications to provide the right solution for their system.

## What We Power

- Charging Capacitors
- Cooling Pumps
- TEC Elements
- Pockels Cells
- Control Electronics
- Lithotripsy
- RF



## Featured Products

|   |  |  |  |   |  |
|---|--|--|--|---|--|
| <p><b>ARTESYN</b><br/><b>LCM1500</b></p> <ul style="list-style-type: none"> <li>■ 1500W output power with no derating</li> <li>■ Low cost</li> <li>■ 12 Watts per cubic in.</li> <li>■ Medical / industrial safety approvals</li> <li>■ High efficiency: 89% typical</li> </ul> | <p><b>AE</b><br/><b>Flexicharge</b></p> <ul style="list-style-type: none"> <li>■ 600 W and 1200 W</li> <li>■ Dual safety approvals: IEC60601-1 (3rd edition) and IEC60950</li> <li>■ Up to 12 isolated DC output voltages</li> <li>■ Five-year warranty</li> <li>■ Field configurable</li> </ul> | <p><b>AE</b><br/><b>CoolX1800</b></p> <ul style="list-style-type: none"> <li>■ Intelligent 1800 W in a compact package</li> <li>■ Industrial and medical safety approvals</li> <li>■ 24 W-standby power</li> <li>■ PMBus™ for digital communications</li> <li>■ 12 isolated outputs</li> </ul> | <p><b>SLPE</b><br/><b>NGB425</b></p> <ul style="list-style-type: none"> <li>■ Output power of 425W with airflow</li> <li>■ Universal 85-264Vac Class I and Class II Input versions</li> <li>■ Meets IEC / UL / EN60601-1-1, 3rd Ed.</li> </ul> | <p><b>ULTRAVOLT</b><br/><b>HVA Series</b></p> <ul style="list-style-type: none"> <li>■ Precision DC-to-DC High Voltage Amplifier</li> <li>■ Max. output voltage / power: 20 kV DC/2 W</li> <li>■ High voltage output, differential analog inputs</li> </ul> | <p><b>ULTRAVOLT</b><br/><b>AEQ Series</b></p> <ul style="list-style-type: none"> <li>■ Ultra-miniature size (0.5" cube)</li> <li>■ Output short-circuit protection</li> <li>■ Supply up to 600VDC at 0.5 Watts</li> <li>■ Ease of installation with PCB mount</li> </ul> |
|---|--|--|--|---|--|



- 1 Problem Identification
- 2 Real-time tests
- 3 Detailed analyses

Our Customer Experience Centers (CECs) are your one-stop shop for all your design and testing needs. From pinpointing issues and prototype sampling to pre-compliance testing for entire systems, our CECs can help you meet deadlines and budgets.

