

# LIFE SCIENCE

## TYPICAL APPLICATIONS

- Blood Analysis
- Electrophoresis
- Mass Spectrometry
- Scanning Electron Microscopes
- DNA/RNA Analyzers
- Genomics
- Nano Inspection and Electroporation
- IVD/Clinical Chemistry



## CHALLENGES

One of the biggest challenges for the life science industry is finding the correct power supply for sensitive instrumentation which requires very low ripple, noise, and high stability performance.

Due to the nature of the life science industry, there has been an increase in regulatory complexity. Finding the right partner with the extensive regulatory knowledge needed

within this industry is proving more difficult in recent times.

Customers are finding it difficult to find a total system product provider, particularly when looking for smaller multi-functional systems with mixed technologies. To find the right solution for your specific application, you need a knowledgeable partner with extensive high voltage and low voltage experience.

## OUR SOLUTIONS

Advanced Energy's compact fanless power supplies ensure sensitive system electronics are not subjected to vibration and air disturbances, while addressing portability needs of benchtop systems. These scalable solutions are ideal power platforms for larger enterprise systems.

Reliable, accurate, ultra-low ripple high voltage power delivery elevates the performance of your entire end system. The high stability and repeatability of our high voltage solutions for achieving measurement accuracy in sensitive applications makes these power supplies required by this industry.

Advanced Energy's team of engineers and applications support can provide extensive knowledge in the safety and certification needs and requirements within the life science industry. Our medical product offering is certified to the most recent standards including IEC62368-1 and IEC60601-1 approvals.

Through close product line collaboration, low and high voltage solutions, superior power performance and reliability, AE provides you with a complete power solution and enabling you to stay ahead of evolving life science market needs.

## BENEFITS OF USING ADVANCED ENERGY

- Low ripple outputs for sensitive measurements
- Fanless solutions for vibration and acoustic sensitive applications
- Compact size for portable and benchtop systems
- Plug and play power – allows fast custom configuration
- Flexible proven platforms and products we can leverage to deliver semi-custom derivative or modified standard solutions

## RECOMMENDED PRODUCTS

### *Low Voltage*

- CoolX® Series
- LCM
- LCC600
- LPS360-M
- CPS250-M
- CNS650-M
- uMP
- iMP
- iVS
- iHP
- AIF/AIT/AIQ (dc-dc)

### *High Voltage*

- C Series
- AA Series
- A Series
- US



Advanced Energy's CoolX® 1000 Series



Advanced Energy's LE Series

## WHAT WE POWER

### *Low Voltage*

- Control Electronics
- Cooling Elements
- Motors

### *High Voltage*

- Detectors
- Photomultiplier Tubes



Advanced Energy's Artesyn µMP Series GEN II



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