

MEDICAL LASERS AND AESTHETIC EQUIPMENT

TYPICAL APPLICATIONS

- Surgical Lasers
- Ophthalmic
- LASEK (eye surgery)
- Laser Ablation
- Cosmetic/Aesthetic Equipment: IPL, Laser, Laser Diode for Skin Treatment, Tattoo Removal, Skin Tightening, Hair Removal



CHALLENGES

The medical laser industry faces many challenges. There is a greater need for multi-function equipment that addresses a wider range of treatments. Treatments take place in clinics and surgeries, so portability, size, and weight become more important features for all end-customer equipment. Acoustic noise cannot be tolerated in these environments to maximize patient comfort through treatments.

The main challenge within the medical and aesthetic laser industry is to source power supplies that are fanless, suitable for use in portable devices, and provide multiple output voltages while maintaining a high-power density.

OUR SOLUTIONS

Advanced Energy has a reputation of providing reliable, flexible, high-performance power solutions for medical laser equipment. In response to customer demands for smaller solutions for mobile equipment, we have a wide range of compact power supplies designed with best-in-class power density and reliability providing single and multiple outputs for all aspects of the equipment.

We have several fanless and low noise power solutions which reduce acoustic noise. The platform nature of our low voltage products

allows scale up to higher power application, where the same base design/solution can power many variations of the customers medical and aesthetic laser product (skin treatment, and tattoo removal).

In addition, we can also address the capacitor charging needs for IPL, laser and laser diode applicators with our high voltage expertise.

BENEFITS OF USING ADVANCED ENERGY

- Fanless solutions for low acoustic noise
- Isolated multiple outputs for capacitor charging, diode driving and system voltages
- Compact size for mobile systems
- Flexible and controllable outputs ideal for diode driving applications

RECOMMENDED PRODUCTS

Low Voltage

- CoolIX® Series
- UltiMod Series
- LCC
- LCM
- uMP (MicroMP)
- CPS250-M
- CNS650-M

High Voltage

- C Series
- HVA Series
- US Series



Advanced Energy's CoolIX Series



Advanced Energy's HVA Series



Advanced Energy's Artesyn LCM Series

WHAT WE POWER

Low Voltage

- RF
- Cooling Pumps
- TEC Elements
- Control Electronics

High Voltage

- Charging Capacitors
- Pockels Cells



For international contact information, visit advancedenergy.com.

sales.support@aei.com
+1 970 221 0108

PRECISION | POWER | PERFORMANCE

Specifications are subject to change without notice. Not responsible for errors or omissions. ©2020 Advanced Energy Industries, Inc. All rights reserved. Advanced Energy®, CoolIX®, and AE® are U.S. trademarks of Advanced Energy Industries, Inc.