

CoolX for Electrosurgery Power Console

INDUSTRY

Medical

SOLUTION

Excelsys CoolX®1800

APPLICATION

Electrosurgery
Surgical Console

CHALLENGE

A major medical device company was designing a multispecialty surgical power console used for removing soft and hard tissue and bone in a variety of surgical procedures. They required a modular power supply with a small footprint capable of multiple outputs required for handsets, motors, and auxiliary power. The power supply had to be very efficient to handle high peak power reliably. For safety, a BF rated power supply was also required.

SOLUTION

Advanced Energy's CoolX1800 series, an intelligent BF rated modular power supply that is a part of our Excelsys product line, was recommended as the solution. The CoolX1800 delivers an incredible 1800 W in a compact 1U high package with PMBus digital communications, control and reliability in addition to the most comprehensive feature set and specifications available. CX18M carries IEC60601-1 (third edition) and the IEC60601-1-2 (fourth edition, EMC) standards for medical applications. It is dual-fused and offers two Means of Patient Protection (MOPP). The CoolX1800 can be populated with up to six CoolMods, providing up to 12 isolated DC outputs that range from 1.0 V to 615 V to power the handsets, motors and auxiliary.

Two of the major advantages provided by AE:

- World-class service and consulting from technical experts
- Fast time to market in your drive to the lowest total cost of ownership for your system design



RESULT

By choosing Advanced Energy's Excelsys CoolX®1800 series, the customer requirements were met for a highly reliable AC/DC power supply, with high power density and best in class quality. As a result of the exceptional technical support and short lead times, the customer was able to accelerate their development cycle.

CONCLUSION

Advanced Energy (AE) power solutions enable customer innovation in complex electrosurgery applications. AE's broad portfolio of highly reliable medical solutions is well equipped to meet global customers' high and low voltage application requirements for electrosurgery devices. With deep medical applications knowledge and responsive service and support across the globe, AE builds collaborative partnerships to power the future of electrosurgery.



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