

Advanced Energy's LCM1500 Series Enables Industrial Ventilation Manufacturing Continuity and Innovation

Enabling Reliable, High-Power Performance in Fire Rescue Fans

INDUSTRY	SOLUTION	APPLICATION
Ventilation	LCM1500	Fire Rescue Fans

CHALLENGE

The industrial ventilation sector serves a critical role in both firefighting and industrial settings, where robust, reliable ventilation equipment is essential for safety and operational efficiency. The customer in this case study is recognized globally for its innovation in ventilation solutions. They faced an urgent need to source two new power supplies for distinct fan platforms when their solution from an AE competitor was designated end-of-life (EOL). Specifically, they required two high-power units: a 36 V and a 56 V, both capable of delivering 1500 W continuous output.

These power supplies needed to support the demanding environments and application-specific needs of fire rescue fans, ensuring both reliability and adaptability to evolving standards.

SOLUTION

Advanced Energy's LCM1500 power supply emerged as the optimal answer for the project requirements. The LCM1500 is a cost-effective solution engineered to meet industrial and medical single-output, high-power needs.



Key features include:

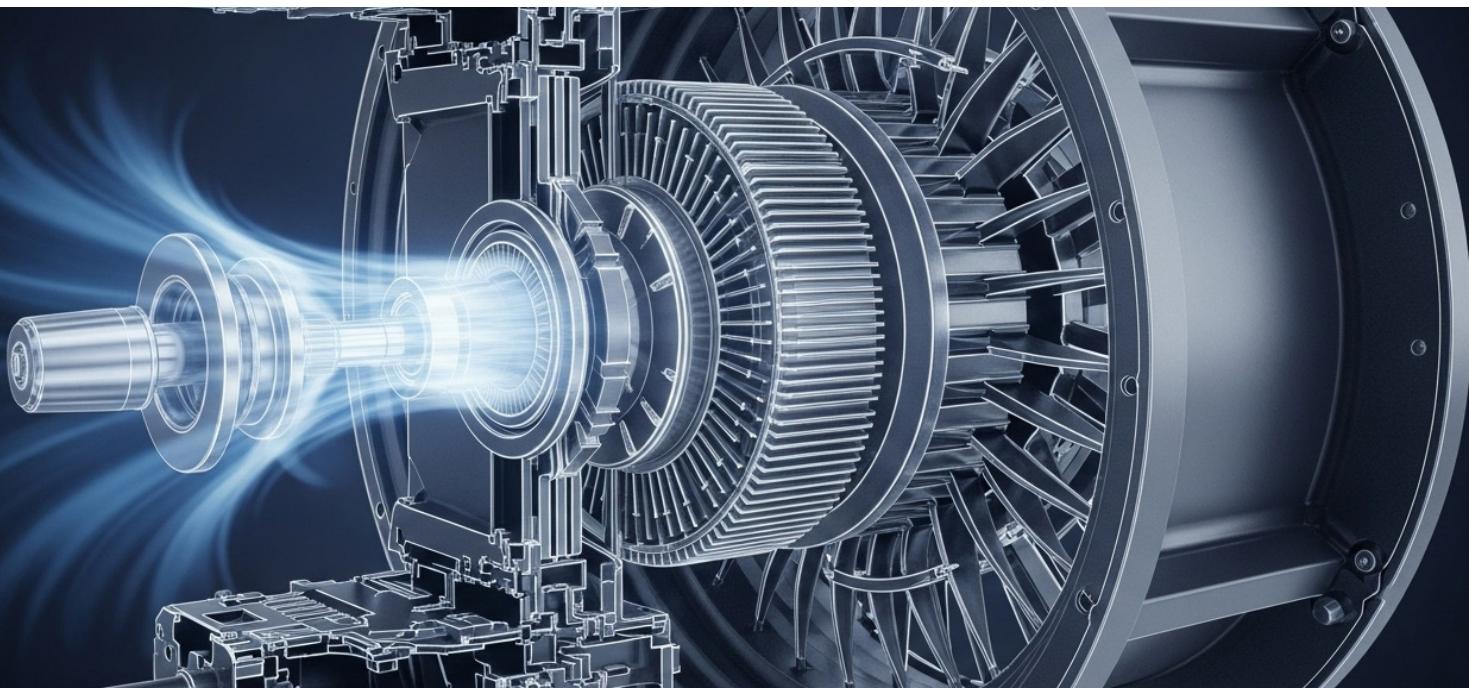
- Compact 2.4 in x 5 in x 10 in enclosed form factor
- Integrated smart fan for self-contained thermal management and minimal acoustic noise
- Digital DSP control for advanced modification flexibility
- Voltage output range from 10.8 to 52.8 V, supporting continuous power delivery of 1500 W
- Optional 5 V standby and versatile I/O configurations

For this application, Advanced Energy provided both standard LCM1500 36 V units and customized 56 V versions to meet the specific demands of different fan designs. The modification capabilities of the LCM1500 enabled a seamless transition from the previous supplier while offering the potential for future enhancements.

RESULTS AND CONCLUSION

The customer was able to quickly adopt the LCM1500 series due to Advanced Energy's available bulk supply and willingness to customize for the 56 V version. The rapid turnaround on both standard and modified units ensured that they could maintain continuity in manufacturing and product delivery schedules. This successful partnership not only addressed the immediate challenge caused by the EOL but also positioned the customer for continued innovation and reliability in their ventilation product lines.

By leveraging Advanced Energy's LCM1500, the customer reaffirmed its commitment to providing industry-leading solutions for firefighting and industrial ventilation, ensuring personnel are equipped with safe, dependable, and high-performance equipment.



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