

Modified LCC600 W: A Unique Solution for Industrial Conveyance Applications

INDUSTRY

Automation Machinery Manufacturing

SOLUTION

Modified LCC600 W

APPLICATION

Industrial Conveyance Applications

CHALLENGE

One of the world's leading solution automation machinery manufacturers required an IP64-rated power solution for their conveyor-based systems. Specifically, the power supplies used to supply power to their sensors, pneumatics, and controllers.

Highly specified Ingress Protection (IP) rated power supplies solutions can be critical in such applications. This type of design eliminates degrading pollution effects that may exist in the operational environment of the power supply unit. The end customer required a fanless, contact-cooled solution, as this would eliminate the effect of ambient pollution and remove fan cooling from the solution that in turn eliminates requirements for any filter cleaning or replacements actions. In addition, fans tend to be one of the least reliable components in a power supply and the in this case the customer required a solution with high uptime in a challenging environment that has the probability of facing high contamination.

SOLUTION

The AE engineering team proposed the LCC600 W. The LCC series consists of fanless, fully-enclosed, IP67 rated version of the power supplies that are ideal for use in demanding environments where the PSU is mounted directly to the machine, which allows for savings on providing an enclosure for the power supply. The characteristics of the power supply were modified to match the load requirements.

Key features of the LCC Series:

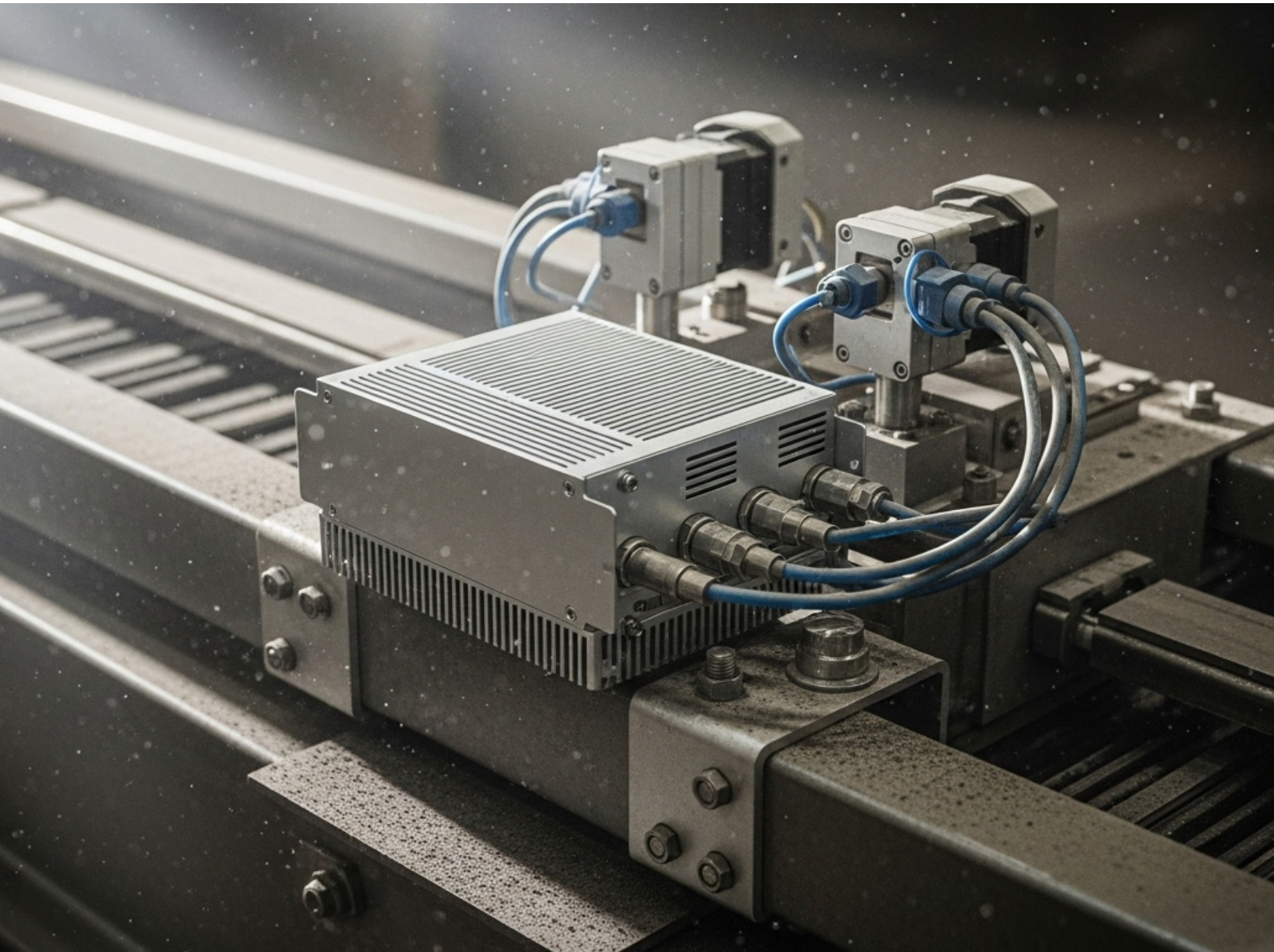
- IP sealed variants
- High efficiency

- High power density
- Tight line and load regulations
- Full output power over -40 to 85°C
- Baseplate operating temperature range



RESULT

Advanced Energy's wide portfolio of power supplies includes contact-cooled families of 250 W, 600 W, and 1200 W power supplies with up to IP67 rating and various connectivity options. The LCC series is fanless, providing higher uptime than fan-cooled products and reducing the need for difficult and costly service. The LCC series offered the customer two options for mounting and cooling orientation: conduction or convection. In addition, prompt, comprehensive support from the AE engineering, marketing, and sales team met all of the customer's needs under their precise timelines.



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