



DAA Powers Mars Exploration Rovers

Breakthrough Battery Designed and Validated 90% Faster by DAA

Client Challenge

Client's engineering team requested assistance with design, analysis, and test for Mars rover battery:

- Creating and comparing multiple complex battery systems – and choosing an optimal design
- Predicting battery performance in the demanding Mars environment
- Testing to confirm highly complicated requirements

DAA Solution

Apply DAA's leading edge design and validation – *and then automate it* - to produce a next generation battery dramatically faster than before.

- Developed structural and thermal battery design and analysis methodology
- Automated engineering design, trade studies, and analysis
- Developed and monitored vibration test plans

Result

Battery designed and validated 90% faster, and used in both Curiosity and Perseverance Mars rovers.

“All of our success in Mars missions can be traced back to some of the early battery development work we did with DAA”

-DAA client, a leading Aerospace battery manufacturer



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About Us: DAA helps manufacturers dramatically improve engineering and manufacturing productivity. We implement Product Lifecycle Management (PLM) Automation using software and process redesign which improves cycle times and costs. Our expertise covers the entire PLM process including Systems, Design, Analysis, Test, Manufacturing and Service.

