



CUSTOMER STORIES

HELPING TO INTELLIGENTLY GET THE WORLD'S FASTEST ELECTRIC DRAGSTER OVER THE 200 MPH MARK.



Isabellenhütte's IVT-S "smart shunt" supplies the data to balance battery life and raw power/torque.

CHALLENGE

AEM was charged with designing and installing the LV control systems on the Huff Motorsports dragster "Current Technology 2.0." The Huff team was poised to be the first to break the 200 mph mark during the early summer months of 2020. With no on-board battery management, AEM Performance Electronics needed to find another way to collect the necessary data for delivering next-level power.

SOLUTION

After speaking with Isabellenhütte, AEM leveraged IVT-S smart shunts to allow the VCU to monitor both pack current and voltage for pre-charge purposes and minimum pack current and voltage de-ratings (to limit the current draw and torque demand if the voltage of the HV battery fell below allowable limits.) The shunt integrated seamlessly with the VCU300 via CAN and provided the data and information they needed to break the speed record.

APPLICATION

- Reporting critical current usage data in the absence of a dedicated battery management system
- High-performance EV racing

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