

## SAE CSC2010 SNOWMOBILE DESCRIPTION FORM

Please fill out the following form and return it to the registration desk. *Answer all questions about your snowmobile as it is actually competing (not as it was intended to compete).*

Team Name University of Wisconsin - Madison ZE Team Number: 21

Chassis-Year and Model 2010 Polaris IQ 600

**Engine**

Engine Cycle (2-stroke, 4-stroke, rotary, or electric) Electric Number Of cylinders N/A

Engine Displacement (cc or electric motor size) 100kW

Engine Manufacturer Delphi Automotive Systems / General Motors

Engine Modifications (if any) N/A

Compression Ratio N/A

Turbocharged? or Supercharged? Yes or No - If Yes circle one N/A

Engine Management System Motronic / Woodward PCM555-80

Fuel Delivery -Carburetors, EFI, DI, SDI - (circle one) N/A

Fuel Pump Pressure N/A psi Fuel Type (circle one) E10, E85, B10, Battery technology Li-Ion

**Emission Control**

Air/Fuel Ratio Chosen (lean, stoichometric?) N/A

Catalyst? Type? N/A

Secondary Air Injection? - Yes or  No (circle one)

Exhaust Gas Recirculation? - Yes or  No (circle one)

Other zero-emissions Electric

**Noise Control**

Muffler Design N/A

Noise Treatment Track Paddle Damper, Tunnel Stiffeners, Belt Cover

**Cooling**

Describe Strategy closed-circuit liquid-cooled w/ coolant-to-air and coolant-to-snow heat exchangers

**Other Unique Features of Your Snowmobile**

Describe Strategy 100% Electric with a direct belt drive and a state-of-charge estimation