

Nuna 13 vehicle specifications

Weight	160 kg
Dimensions	4.7 m x 1.8 m x 1.1 m
Powertrain	Custom-designed, radial flux, ironless motor integrated within the wheel hub; delivers up to 98% conversion efficiency
Body design	Asymmetric catamaran configuration with dual aerodynamic fins to support directional stability and drag control
Aerodynamics	Drag equivalent to a side mirror of a passenger car and validated through full-scale wind tunnel testing
Battery	3 kWh total capacity using Amprius cells with 40% higher energy density than standard EV cells
Tires	Equipped with Bridgestone's ENLITEN™ technology tires, which ensures the performance required for solar cars while further advancing sustainability. The belt layer is reinforced with Twaron Next® from Teijin Aramid
Software	Developed entirely in-house to optimize energy use, route decisions, and adaptive race performance
Solar Charging	Tilt-enabled array supports angled charging during low sun conditions; performance depends on light intensity
Fin function	Fins help stabilize the car in crosswinds and can generate forward thrust under the right conditions
Manufacturing	Lightweight body formed from prepreg carbon in an autoclave; shaped for optimal balance between aerodynamic performance and build feasibility