GEMINI

MIT SEVT

Wheels (4):
Aluminum
95/80 R16

Battery:
Lithium Ion
NCR18650GA

Motors (2):
Mitsuba 2096 D3
5 kW Peak Power (each)

Infotainment/Interior:
RGB Light Customization
AI Voice Assistant
Apple Carplay
Speaker Audio
Phone Chargers
Cup Holders

Safety:
4130 Steel Roll Cage
5 Point Racing Harness

Solar Array:
Mono-crystalline Silicon Solar Cells
1265 W Peak Wattage

Chassis:
Monocoque Carbon Fiber Composite

Weight:
440 kg

ELIANA

PRISUM
SOLAR CAR CLUB AT ISU.

17.54 kWh

176 L of Cargo

1187 W
Solar Array

350 Miles
at 30 MPH

Carbon Fiber +
Nomex Panels

Composite
Suspension Mounts

Up to 55 MPH

1049 lbs
476 kg

Android Auto &
Apple CarPlay

2 Rear Motors

JBL Stereo Speakers

Push Button Hatch

GAIA

University of Minnesota Solar Vehicle Project

Solar-Electric Vehicle

A spacious two-seat cruiser built with style and convenience in mind.

2 person capacity

1300 watt solar array

550 mile range

Battery Cells	**21700 Lithium-ion**
Solar Cells	SunPower Maxeon Silicon
Motors	Dual In-House Permanent Magnet
Chassis	Carbon Fiber Monocoque

Safety Features

- **Composite side impact structure**
- **Steel roll cage**
- **5-point harness seat belts**
- **Shatter-proof windows**
- **Side turn indicators**

Interior Features

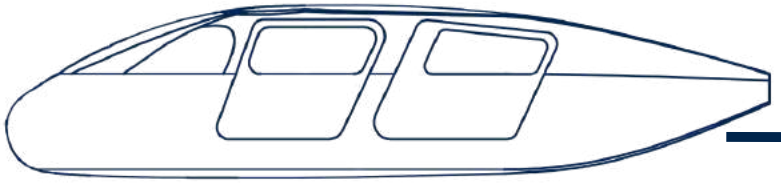
- **Infotainment system**
- **Ergonomic steering wheel**
- **Mirrorless vision system**
- **Luxury interior**
- **Cup holders**
- **Passenger cooling system**
- **Push to talk radio system**

Exterior Features

- **LED headlights**
- **Normalizing array**
- **Daytime running lights**
- **Protective vinyl wrap**
- **Aerodynamic tunnel**

Fueled by the Sun, Powered by the Mind! • UMNSVP.org

SR-4 AURORA #49



4 Passengers

1233W Array

400 mile Range

14.05 kWh

940 kg

35 Wh/mile

VEHICLE OVERVIEW

Chassis: Semi-monocoque carbon fiber
Motors: 2 GEM G2.4 in-hub radial flux
Battery cells: Molicel 18650 Lithium-ion
Solar cells: SunPower Maxeon Silicon
Dimensions: 4.98m x 2.16m x 1.25m
Charging time:

- Regular (120 Volts): 5h
- Fast (240 Volts): 3h
- Solar: 11h

FEATURES

- Direct RWD
- Regenerative braking
- Cruise control
- Infotainment system
- Live telemetry
- Rear-view camera
- LED headlights
- EV Charging Port

Want to learn more?

solarracing.gatech.edu | @gtsolarracing

GT SOLAR RACING
GEORGIA INSTITUTE OF TECHNOLOGY

ESTEBAN 11
Solar car

- 2024 CRUISER GT
- 2 PASSENGERS SPORTS CAR
- 10 kW MITSUBA MOTORS
- DIRECT FRONT WHEEL DRIVE
- 330 kg

EXTERIOR
- ELEGANT CUSTOM VINYL WRAP
- SIGNATURE LED HEADLIGHTS
- TAILLAMPS-LED WITH SEQUETIAL TURN SIGNAL

INTERIOR
- 10.1" INFOTAINMENT
- ANDROID AUTO + GPS
- DUAL VANITY MIRRORS
- LEATHER TRIMMED SEATS
- F1 STYLE STEERING WHEEL WITH CRUISE CONTROL

FUNCTIONALITIES
- 4 WHEELS INDEPENDENT SUSPENSION
- REAR VIEW CAMERAS
- AM/FM BLUETOOTH
- EV CHARGING PORT
- REGENERATIVE BREAKING

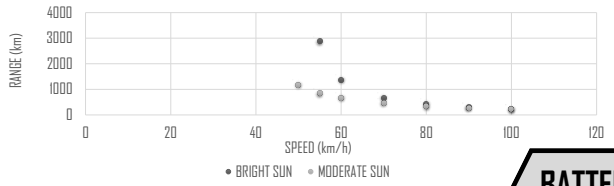
SAFETY
- CARBON FIBER MONOCOQUE
- STEEL ROLL CAGE
- DUAL HIGH PERFORMANCE BMS
- 5 POINTS SFI 16.1 HARNESS

Battery Cell Chemistry	BAK 21700CG-50
Solar Cell Chemistry	Maxeon Gen III Solar Cells (Silicium)
Peak Solar Array Power Estimate	1217 W
Motor Type	M2096D-III Mitsuba hub motors
Wheels Type	Nomura carbon fiber rims
Chassis Type	Composite sandwich panels
Roll Cage Type	AINSI 4130 steel tubular frame
Seat Belt Type	5-points harness
Braking System	2 independent hydraulic systems
Parking Brake	Independent hydraulic system

CHARGING TIME

Regular charge (120 volts)	5,76 hrs
Fast charge (240 volts)	2,8 hrs
Solar charge	7,5 hrs

DRIVING RANGE



Estimates are based on the data from tests. Vehicule's actual energy consumption will vary.

For more information please visit
esteban.polymtl.ca

BATTERY SPECS

Voltage : 115.2 V

Configuration : 32s16p

Capacity : 9.216 kWh

Weight : 35,84 kg

SPEED STATISTICS

PEAK SPEED Maximum speed the car can reach	70 mph
OPTIMAL SPEED Speed that allows the highest driving range and best consumption statistics	31 mph
CRUISING SPEED Average speed driven during competitions and rallies	40 mph

FACEBOOK INSTAGRAM

POLYTECHNIQUE MONTRÉAL

TEAM SUNERGY

APPSTATE 828

2024 SUNERGY R.O.S.E

Exterior:

- 19" Aluminium Wheels
- Full Electric Direct Drive
- Signature LED Datyime Running Lights
- SIgnature LED Tail Lights
- Signature LED Turn Signals
- Custom Vinyl Wrap
- Aerodynamic Fairing Doors
- Flush Doors Handles
- Full Carbon Fiber Aeroshell

Functional:

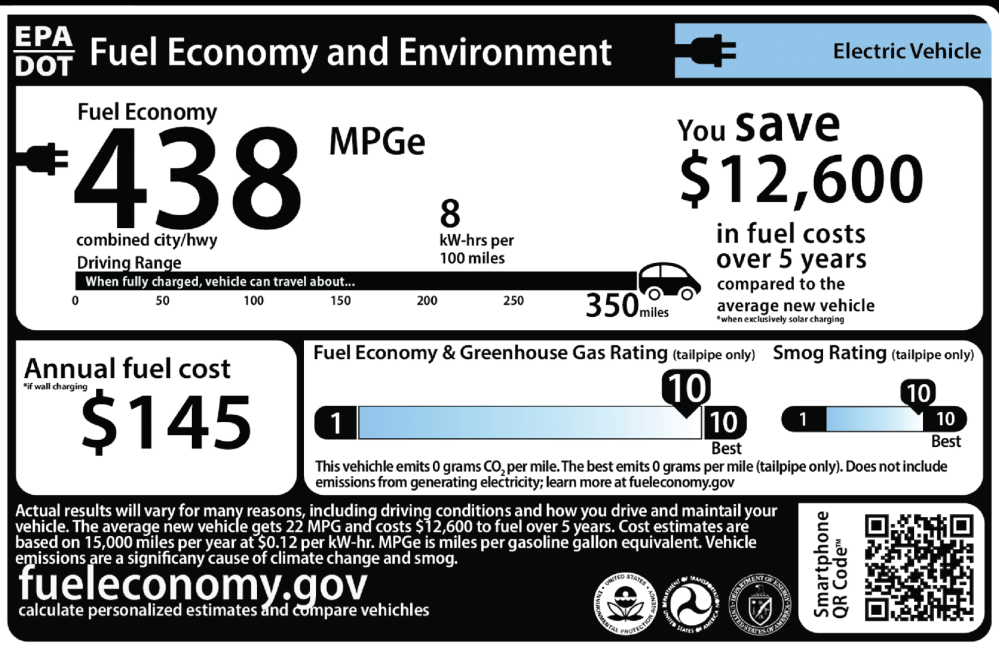
- 22.5 kWh Battery
- 1212 Watt Solar Array
- Regenerative Braking System
- Dual 7hp Mutsuba Hub Motors
- 4-Wheel Unassisted Disk Brakes
- 4-Wheel Independent Suspension
- Easy-Open Charging Door

Interior:

- 10" Infotainment System
- Center Console w/ 2 Cupholders
- Lightweight Racing Bucket Seats
- Leather Wrapped Steering Wheel
- Carpeted Floors
- Live Telemetry
- Centermounted Camera Mirrors
- Rear View Camera

Safety:

- 5 - Point Harness
- BMS w/ Fault Indicator
- Steel Roll Cage
- Exterior Kill Switch



Top Speed.....80 mph

Range.....350 miles

Scan here to learn more about the car and the team:

@appstatesvt