



## Lightyear 0 (2022-2023) (USA)

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### General Info

Years of Production	2022 - 2023
Market Availability	EU
Country of Manufacture	Finland
Current Status	Discontinued
Body Style	Sedan
Price USA (New/Used)	\$No data/No data

### Range and Efficiency

Range EPA	No data
Range WLTP	388 mi
Range GCC	330 mi
Battery (Usable/Nominal)	60/60 kWh
Efficiency (Energy/Range)	18.2 kWh/100 mi
Efficiency (Range/Energy)	5.5 mi/kWh

### Charging

Architecture	400 V
Max AC Charging	22 kW
Max DC Charging	75 kW
Charge Port	CCS Type 1

### Performance

Drive Type	AWD 2 PMSM (front), 2 PMSM (rear)
Motor (Power/Torque)	130 kW (174 hp)/1269 lb-ft
Acceleration 0-60 mph	9.7 s
Top Speed	99 mph

### Dimensions

Length	200.1 in
Width (with Mirrors/no Mirrors)	77.6/77.6 in
Height	56.9 in
Wheelbase	116.1 in

### Cargo and Towing

Number of Seats	5
Curb Weight	3472 lb
Cargo Volume (Trunk/Max/Frunk)	16.7/38/No data ft3
Towing Capacity	No data

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# About Lightyear 0 (2022-2023)

## Overview

The 2023 Lightyear Zero Gen 1 was a truly groundbreaking, ultra-efficient solar electric vehicle, a real head-turner aiming for a premium, eco-conscious niche. Its standout feature was the extensive solar panel integration, promising "free" miles from the sun. Originally developed for the EU market with an ambitious projected price around \$270,000, its production in Finland was extremely limited before being discontinued. Consequently, official US pricing for new or used models is unavailable as it never formally launched stateside, making it an ultra-rare technological showcase.

## What's New for 2023?

For 2023, the Lightyear Zero Gen 1 saw its highly anticipated, albeit extremely limited, production actually commence – a massive engineering feat! However, the big "news" for this model year quickly shifted to its unfortunate discontinuation early in 2023. After only a handful of these solar-clad marvels rolled off the line, the company spearheading its production faced financial difficulties, halting the Zero's journey almost as soon as it began. This makes the 2023 model year both its debut and its swan song.

## Design & Exterior

This sedan is pure sci-fi on wheels, boasting an incredibly slippery, teardrop shape meticulously sculpted for ultimate aerodynamic efficiency. It's a long lad, measuring 200.1 inches in length, a substantial 77.6 inches in width (mirrors excluded), and a sleek 56.9 inches in height. The most jaw-dropping features are the five square meters of solar panels seamlessly integrated into the hood and expansive roofline. These aren't just for show; they genuinely trickle-charge the battery, making this machine a true solar pioneer.

## Interior, Tech & Cargo

Step inside the Lightyear Zero, and you're greeted by a cabin that champions sustainability, utilizing plant-based leathers, recycled PET bottle fabrics, and other snazzy eco-friendly materials. It's a minimalist five-seater with a clean dashboard dominated by a 10.1-inch central touchscreen handling infotainment duties, likely with standard smartphone integration. For your luggage, there's a decent 16.7 cubic feet trunk, which expands to a useful 38 cubic feet when you fold the rear seats down. Don't go looking for a frunk, though; this EV is all about aero at the front!

## Performance & Driving Experience

Don't expect neck-snapping acceleration here; the Lightyear Zero prioritizes maximum efficiency over outright oomph. It glides from 0-60 mph in a relaxed 9.7 seconds. Power comes from a clever All-Wheel Drive system using four in-wheel Permanent Magnet Synchronous Motors (two at the front, two at the rear), delivering a combined 130 kW and a substantial 1269 lb-ft of torque. The driving experience is tuned for serene, whisper-quiet cruising, making the most of every electron. Top speed is a sensible 99 mph, plenty for real-world driving.

## Range, Battery & Charging

The Lightyear Zero is equipped with a 60 kWh usable battery pack, but thanks to its incredible efficiency of 5.5 mi/kWh, Green Cars Compare calculates an impressive real-world range of 330 miles. Its party trick is

the integrated solar panels, capable of adding up to 43 miles of range on a sunny day! For plug-in power, it features a CCS Type 1 port for the US market, accepting DC fast charging at up to 75 kW. The standard on-board AC charger is a potent 22 kW, meaning a full charge could take around 3-4 hours.

## Safety & Driver-Assistance Features

Due to its extremely limited production run and niche status, the Lightyear Zero Gen 1 was never subjected to official crash tests by US authorities like NHTSA or European bodies like Euro NCAP, so formal safety ratings are unavailable. However, for a vehicle conceived with such advanced technology and a premium positioning, it would have undoubtedly been designed with a comprehensive suite of modern driver-assistance systems. Expect features like adaptive cruise control, lane-keeping assist, and automatic emergency braking to have been part of its intended package.

## Warranty & Maintenance Coverage

Specific US warranty and maintenance details for the Lightyear Zero Gen 1 are largely academic, given it was never officially sold in the US and its production was halted. Typically, such a premium EV might have offered a 4-year vehicle warranty and an 8-year/100,000-mile battery warranty. However, with the company's restructuring, honoring such commitments would be uncertain. As an EV, routine maintenance would be minimal, focusing on tires, brakes, and fluids, though its unique in-wheel motors would have been a point of interest for long-term service.

## How powerful is it? How fast does it accelerate?

The Lightyear 0 (2022-2023) achieves a 0 to 60 mph acceleration in 9.7 seconds (placing it at **Nº81 out of 120 ranked positions**, among 1014 electric vehicles, with some cars sharing positions) and attains a maximum speed of 99 mph.

Its powertrain provides a power output of up to 130 kW (174 hp) and a torque of 1269 lb-ft.

## How far can it go on single charge? What is the real-world range?

Lightyear 0 (2022-2023) achieves a real-world range of 330 miles, placing it at **Nº54 among 272 ranked positions**. However, this range is subject to several influences:

- Speed: Traveling at higher speeds reduces battery life.
- Temperature: Extreme cold or hot weather can affect range.
- Terrain: Hilly or mountainous landscapes decrease range.
- Driving habits: Aggressive driving with frequent acceleration and braking consumes more energy.
- Feature usage: Climate control and media systems also influence range.

It's important to acknowledge that these are estimations, and your actual driving range may differ. Consider these factors when planning your trip and be ready for potential charging stops.

Utilize the [interactive EV Navigation map](#) for trip planning assistance.

## What charging options are available? How long does it take to charge it?

The Lightyear 0 (2022-2023) in the USA comes with a CCS Type 1 charging port. It can be charged at home using a standard domestic socket or at any public AC charging station with the compatible cable. It's

important to note that the car's on-board charger (inverter) limits the maximum AC charging rate to 22 kW, resulting in approximately 109 miles of range added per hour of charging.

For significantly faster charging, public DC fast-charging stations are available. Although the car can achieve a maximum DC charging rate of 75 kW, factors such as battery temperature and charge level may affect the actual charging speed.

Use [EV Charging Calculator](#) to estimate charging time, rate, and cost.

## How big is it? What are the dimensions (length, width, height)?

The size and weight specifications for Lightyear 0 (2022-2023) are as follows:

- Length: 200.1 in
- Width: 77.6 in (including side mirrors) or 77.6 in (excluding side mirrors)
- Height: 56.9 in
- Wheelbase: 116.1 in (distance between the center of the front and rear wheels)
- Curb weight: 3472 lbs (weight of the empty car, no people or cargo)

## How much cargo space does it offer? Does it have a front trunk?

The rear cargo area of the Lightyear 0 (2022-2023) provides 16.7 cubic feet of space when the rear seats are upright (Nº96 out of 170 ranked positions, among 1014 electric vehicles, with some cars sharing positions).

Folding these seats down unlocks a maximum cargo capacity of 38 cubic feet (Nº166 out of 206 ranked positions, among 1014 electric vehicles, with some cars sharing positions).

The car doesn't have a "frunk" (front trunk).

## Is it suitable for towing? What is the maximum towing capacity?

The car isn't officially rated for towing.

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