

# Electric Car

I N S I D E R

## EV BUYERS GUIDE COMPLETE REVIEWS

ELECTRIC CAR  
Buyers Guide

ELECTRIC CAR  
Guest Drive

EVSE EXHIBIT  
Mobile Showcase



### Lyriq

A NEW ERA FOR CADILLAC

### Hyundai Ioniq 5



### Ford F-150 Lightning



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# Electric Automobile Matrix

## Specification Quick Reference



BATTERY ELECTRIC

Make	Model	Yr Intro	Battery kWh	Range (mi)	MPGe	MSRP Base	Page
Audi	e-tron	2019	95	226	79	<b>\$70,800</b>	26
BMW	i4	2022	83.9	227-301	109	<b>\$56,900</b>	11
BMW	iX	2022	105.2	324	86	<b>\$85,095</b>	12
Cadillac	LYRIQ	2022	102	312	89	<b>\$62,990</b>	16
Chevrolet	Bolt	2016	66	259	118	<b>\$25,600</b>	43
Ford	F-150 Lightning	2022	98-131	230-300	66	<b>\$46,974</b>	21
Ford	Mustang Mach E	2020	76-98.8	270-303	82-103	<b>\$48,775</b>	33
Genesis	Electrified G80	2022	87.2	265-310	~90	<b>~\$60,000</b>	--
Genesis	GV60	2022	77.4	229-280	~94.5	<b>~\$55,000</b>	--
GMC	Hummer EV	2022	212.7	290-329	47	<b>\$110,295</b>	18
Hyundai	Ioniq 5	2022	58-77.4	220-303	98	<b>\$40,950</b>	40
Hyundai	Ioniq Electric	2016	38.3	170	136	<b>\$33,245</b>	--
Hyundai	Kona Electric	2019	64	258	120	<b>\$34,000</b>	42
Jaguar	I-Pace	2018	90	246	76	<b>\$71,300</b>	25
Kia	EV6	2022	58-77.4	206-310	105-117	<b>\$41,400</b>	37
Kia	Niro EV	2019	39	239	112	<b>\$38,850</b>	50
Lexus	RZ 450e	2022	71.4	200-225	--	<b>~\$55,000</b>	--
Lucid Motors	Air	2022	112-118	406-520	111-131	<b>\$87,400</b>	9
Mercedes-Benz	EQB	2022	66.5	~200-300	~80	<b>~\$45,000</b>	--
Mercedes-Benz	EQC	2020	80	279	80	<b>\$67,900</b>	28
Mercedes-Benz	EQE	2022	90.6	300	~100	<b>~\$70,000</b>	--
Mercedes-Benz	EQS	2021	107.8	340	97	<b>\$103,360</b>	10
Mini Cooper	SE	2020	32.6	114	95	<b>\$34,225</b>	45
Nissan	Ariya	2022	63-87	265-300	--	<b>\$47,125</b>	41
Nissan	Leaf, Leaf Plus	2010	40-62	149-226	114	<b>\$27,400</b>	--
Polestar	2	2020	78	260-270	--	<b>\$48,400</b>	24
Porsche	Taycan	2019	79.2-93.4	199-227	70-79	<b>\$86,700</b>	7
Rivian	R1S	2020	105-180	260-320	--	<b>\$78,000</b>	19
Rivian	R1T	2020	105-180	260-400	--	<b>\$73,000</b>	20
Subaru	Solterra	2022	72.8	222-228	102-104	<b>\$46,220</b>	30
Tesla	Cybertruck	2023	100-200	250-500	--	<b>\$39,900</b>	--
Tesla	Model 3	2017	50-75	272-358	141	<b>\$46,990</b>	36
Tesla	Model S	2012	100	396-405	101-120	<b>\$104,990</b>	8
Tesla	Model X	2015	100	333-348	91-102	<b>\$120,990</b>	13
Tesla	Model Y	2020	74	303-330	111-129	<b>\$65,990</b>	32
Toyota	bZ4X	2022	71.4-72.8	222-252	102	<b>\$43,335</b>	38
Volkswagen	ID.4	2021	77	240	97	<b>\$38,790</b>	39
Volvo	C40 Recharge	2021	75	226	87	<b>\$59,845</b>	27
Volvo	XC40 Recharge	2020	78	223	--	<b>\$53,550</b>	31

Dashes in the matrix represent specs not available at time of printing.



## ACQUISITION

MSRP\$ .....	<b>\$87,400</b>
60 Month@6% est .....	<b>\$1,649.35</b>
Lease w \$10k down.....	-
Availability .....	<b>2022-present</b>
U.S. Sales Units .....	-

## RANGE

EV Range .....	<b>406-520 mi</b>
MPGe .....	<b>111-131</b>

## PERFORMANCE

0-60 mph .....	<b>&lt;2-4 sec (est)</b>
Top Speed .....	<b>200+ MPH</b>

## BATTERY

Volts .....	-
Watts .....	<b>112-118 kWh</b>
Cooling .....	<b>liquid</b>

## DRIVETRAIN (ELECTRIC)

HP/Lb-ft .....	<b>480-1,200+/443-1025</b>
Drive Type .....	<b>RWD/AWD</b>

## CHARGING

Power Rating .....	<b>19.2 kW</b>
Charge Time L1 .....	<b>43 hrs</b>
Charge Time L2 .....	<b>13 hrs</b>
Charge Time DC .....	<b>25 min</b>
Connector .....	<b>CCS</b>

## CAPACITY

Passengers .....	<b>5</b>
Cargo .....	<b>16.1 cu ft</b>

## DIMENSIONS

Curb Weight .....	<b>5282 lbs</b>
Length .....	<b>195.88 in</b>
Width .....	<b>86.54 in</b>
Height .....	<b>55.51 in</b>

# 2022-2023 LUCID MOTORS Air

Startup Lucid Motors' new Air large luxury sedan aims to take the crown as the highest range EV on the market right now. Led by Peter Rawlinson, who was the chief engineer for the groundbreaking Tesla Model S, Lucid aims to become a luxury alternative to Tesla in the high end of the market. With its sleek body shape, unique design, high end materials, and roomy interior, the Air represents what a large luxury car of the future would be, except it's available now!

With a range of up to 520 miles, the Lucid Air is the highest range EV available today. That range comes with a car that is nearly devoid of compromises as well, which may be one of the Air's best selling points. With 480 to a whopping 1,200 horsepower available, the Air offers a wide range of performance levels and pricing, as well. Starting at \$87,400 and topping out at over \$180,000, the Air has one of the widest pricing ranges of any new car. The now sold out Dream Edition Performance model could hit 60 mph in 2.6 seconds, so the cost could be justifiable for some. Most models are equipped with a 112 kWh battery and AWD, leading to a range of at least 406 miles. Lucid Motors' Level 3 autonomous driving system, DreamDrive Pro, will be available later. A new ultra high performance Sapphire trim will launch later as well.







## ACQUISITION

MSRP\$ .....	\$46,974
60 Month@6% est .....	\$908
Lease w \$10k down.....	-
Availability .....	2022-present
U.S. Sales Units .....	-

## RANGE

EV Range .....	230-300 mi
MPGe .....	66

## PERFORMANCE

0-60 mph .....	4 sec
Top Speed .....	110 mph

## BATTERY

Volts .....	-
Watts .....	98-131 kWh
Cooling .....	liquid

## DRIVETRAIN (ELECTRIC)

HP/Lb-ft .....	452-580/775
Drive Type .....	AWD

## CHARGING

Power Rating .....	11.3-19.2 kW
Charge Time L1 .....	100 hrs
Charge Time L2 .....	10-19 hrs
Charge Time DC .....	44 min
Connector .....	CCS

## CAPACITY

Passengers .....	5
Cargo .....	52.8 cu ft

## DIMENSIONS

Curb Weight .....	6171-6855 lbs
Length .....	232.7 in
Width .....	96 in
Height .....	78.9 in

2022-2023

# FORD F-150 Lightning

Ford's groundbreaking all electric F-150 Lightning represents the most substantial pivot to the adoption of EVs yet. For over thirty years, the most popular vehicle sold in the US has been the F-150, and now with an electric option, Ford has come out swinging in the EV truck race. Unique to the segment, Ford has blended traditional F-150 parts and legendary looks with a dedicated EV platform. For example, the cab is exactly the same as any other of the same generation, yet the frame is completely new, designed to incorporate the batteries and drivetrain components seamlessly. In fact, this is the only EV truck with a frame at all, as the Rivian, Hummer, and Silverado EVs are or will be unibody. All of this has enabled Ford to accelerate the development and launch of the truck.

The specs and pricing are impressive as well. For example, the base model starts at \$46,974, which significantly undercuts all of the aforementioned competitors, by tens of thousands. The payload and towing capacities max at 2,000 and 10,000 lbs respectively, very close to the Rivian R1T. Two battery choices are available, both with AWD standard: 98 kWh and 131 kWh, giving a claimed 230 to 300 mile range. A feature certain to find fans among both contractors and campers is the Pro Power Onboard generator feature. Similar to the hybrid F-150, this can turn the truck into a mobile power station to power up to a whole house if needed. With the Lightning, Ford has established itself as the EV truck leader.





## ACQUISITION

MSRP\$ .....	\$59,845
60 Month@6% est .....	\$1,156
Lease w \$10k down.....	\$837
Availability .....	2021-present
U.S. Sales Units .....	--

## RANGE

EV Range .....	226 mi
MPGe .....	87

## PERFORMANCE

0-60 mph .....	4.3
Top Speed .....	112 mph

## BATTERY

Volts .....	--
Watts .....	75 kWh
Cooling .....	liquid

## DRIVETRAIN (ELECTRIC)

HP/Lb-ft .....	402/487
Drive Type .....	AWD

## CHARGING

Power Rating .....	11 kW
Charge Time L1 .....	72 Hrs
Charge Time L2 .....	8 Hrs
Charge Time DC .....	35 min
Connector .....	CCS

## CAPACITY

Passengers .....	5
Cargo .....	35.3-66.3 cu ft

## DIMENSIONS

Curb Weight .....	4750 lb
Length .....	174.8 in
Width .....	80.1 in
Height .....	62.8 in

# 2021-2023 VOLVO C40 Recharge

The newest, most unique model to Volvo's lineup is the new C40 Recharge. It's the first model and bodystyle to be launched as a full EV; the XC40 Recharge, for which it is based off of, is a variant of the gas powered XC40. The C40's unique shape and lines definitely turns heads while the interior receives new technology that Volvo will introduce to the model range in the years ahead. Based on the same CMA (Compact Modular Architecture) as the XC40, the vehicles actually share quite a bit of components and even drivetrains. In fact, the front end, all the way to the front doors, is nearly identical to the XC40. Positioned as a more premium offering, the C40 shows off the stylish fastback roof, new Android Automotive infotainment system with integrated Google Maps, and new interior materials choices.

Available exclusively online only, sold as only a single model in Ultimate trim, the C40 Recharge is equipped with a dual motor AWD layout, providing 402 horsepower and 486 lb-ft of torque. 0-60 happens in about 4.3 seconds and the 75 kWh battery gives about 226 miles of range. It's capable of 150 kW fast charging, which while slower than some other competitors, is still fast enough to allow a 10% to 80% charge in about 35 minutes. Unique to the C40, it's the first Volvo model to be completely leather-free. The interior is detailed by striking yet subtle backlit trim panels on the dashboard and doors, which are softly illuminated that show a topographic map.







#### ACQUISITION

MSRP .....	<b>\$40,300</b>
60 Month @ 6% est .....	<b>\$779</b>
Lease .....	--
Availability .....	<b>2020-present</b>
U.S. Sales Units .....	--

#### RANGE

EV/ICE Range .....	<b>42/600</b>
MPGe/MPG .....	<b>94</b>

#### PERFORMANCE

0-60 mph .....	<b>5.8 sec</b>
Top Speed .....	<b>117 MPH</b>

#### BATTERY

Volts .....	--
Watts .....	<b>18.1 kWh</b>
Cooling .....	<b>Liquid</b>

#### DRIVETRAIN (HYBRID)

HP/Lb-ft .....	<b>302 hp/--</b>
Drive Type .....	<b>AWD</b>

#### CHARGING

Power Rating .....	<b>3.3-6.6 kW</b>
Charge Time L1 .....	<b>12 hours</b>
Charge Time L2 .....	<b>2.5 hours</b>
Charge Time DC .....	<b>N/A</b>
Connector .....	<b>J1772</b>

#### CAPACITY

Passengers .....	<b>5</b>
Cargo .....	<b>35-72 cu ft</b>

#### DIMENSIONS

Curb Weight .....	<b>4,400 lbs</b>
Length .....	<b>180.9 in</b>
Width .....	<b>73 in</b>
Height .....	<b>67.2 in</b>

2020-2023

## TOYOTA RAV4 Prime PHEV

The Toyota RAV4 Prime PHEV is now available as a plug-in. In designing the all-new Rav4 Prime, Toyota not only intends to capitalize on the model's previous success but to take it to new heights. The Rav4 Prime is the most powerful Rav4 yet, with three electric motors—two in the front, one in the back—and a 2.5-liter, four-cylinder Atkinson-cycle gasoline engine. Its "Electronic On-Demand" AWD powertrain supplies 302 horsepower and clocks a zippy 0-60 mph time of 5.8 seconds. The Rav4 Prime's electric range is Toyota's best to date at 42 zero-emission miles. This range holds up in extreme weather thanks to a heat pump that efficiently heats the cabin to conserve electrons for driving. The Rav4 Prime maintains the line's compact SUV body with an added layer of sportiness. Painted 18- or 19-inch alloy wheels, aggressive LED headlights, and piano black accents imbue the exterior with an assertiveness its predecessors lacked. On the inside, a soft-touch interior stitched in red, a leather steering wheel, and an 8- or 9-inch infotainment touchscreen bolster the Rav4 Prime's interior finish. The Rav4 Prime's Toyota Safety Sense (TSS 2.0) package is among the industry's most comprehensive with collision avoidance, adaptive cruise control, lane-keeping assist, auto high beams, and road-sign assist. Its battery warranty is similarly industry-topping at ten years or 150,000 miles.

The Rav4 Prime edges out the Outlander and Escape PHEVs in both range and performance and positions Toyota to maintain Rav4's status as a consumer favorite.



# EV Educational Resources

Supporting EV Adoption from  
Awareness to Advocacy

## Electric Car INSIDER

### EV & EVSE Buyers Guides



Comprehensive, full page profiles of the best EVs and EV chargers.

### Electric Car Guest Drive



Test drive the latest electric cars and learn from EV owners at a no-pressure social event.

### Discount Pricing Guide



The app that can save you thousands of dollars on EV and EVSE purchases. Customizable for utilities and AQMDs.

### Educational Pillars



Large scale interactive exhibits for indoor and outdoor events.

### Mobile EVSE Exhibit



Turn-key electric vehicle charger exhibit with commercial and residential demo units.

### EV Navigator



Online, interactive app to guide prospective EV drivers on the path to ownership and advocacy.

ECI creates electric vehicle educational resources for utilities, AQMDs, automakers and EVSE manufacturers, integrators and installers.

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