

EVs: Toy Prius Gens, Nissan Leaf, Ford Focus, GM Volt-Bolt, Tesla S, RAV4



Electric Vehicle Specifications	Prius Gen II	Prius GnIII	Prius Gen IV	Prius Prime Plug In	Chevy Volt Gen II	Nissan Leaf	Ford Focus Elect	Chevy Bolt EV	Tesla S P100D*	RAV4 Gen IV
Years of manufacture	2003 – 2009	2010 - 2014	2015 - 2017	2017	2010 - 2017	2011 - 2017	2017 Hatch	2016 - 2017	2015 - 2017	2012- 2018
Electric Vehicle Type	Full Hybrid	Full Hybrid	Full Hybrid	Plug In Hybrid	Series E-REV	All Electric	All Electric	All Electric	All Electric	Full Hybrid
Internal Combustion Eng	1.5L	1.8 L	1.8L	1.4/1.8L		N/A	N/A	N/A	N/A	2.5L
ICE Engine HP / kW	76 / 57	98	95/70.8		84	None	None	None	N/A	150/112
Total Drive Train HP/kW	110	134	121	121		96.3	143	200	570	194/145
ICE Torque	115 Nm	142 Nm	142 Nm	142 Nm		None	None	None	N/A	206 Nm
ICE Engine RPM Redline	5000	5200	5200	5200		N/A	NA	NA	N/A	5700
Electric Motor Power (HP)	67	80	71	31/71	149/74	96.3	143	200	765	141
Elect Motor Pwr, P _{max} (kW)	50		53	53	120	80	107	150	570	105
Max M Tq, T _{max} (ft lbf/Nm)	295	115	120	30/120	236	207	184	266	707	199/270
Fuel Economy(MPG /e)	42	50	55	54/113	42/106	/112	/118	/119	/98	34/30
0-60 mph (seconds)	10.1	9.8	9.6	12.2/10.6	9.2	10.2	9.9	7	2.3	8.1
Average Acceleration (gs)	0.271	0.279	0.285		0.297	0.268		0.391	1.4*	0.34
Top Speed (mph)			112	115	100	93	85	91	217	
Braking Distance 60- 0 mph			117 ft		112 ft	124 ft		132 ft	109 ft	143 ft
All Electric Range (miles)	1.	1.5	1.5	25	53	107	115	200	314	5
Battery Energy (kWh)	1.3KWh	1.3KWh	1.3KWh	8.8kWh	18.4	30	33.5	60	100	1.6kW h
Battery-Pack Voltage	201.6	201.6	201.6			360-403		350	394	244
Battery Amp-hr	6.5	6.5	6.5		50.4	32.5			120	95
Battery-Pack Weight (lb/kg)	/45				/435			/43C6	1411/640	
Battery-Pack Type	NiMH	NiMH	NiMH	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	NiMH
Life CO ₂ Saving%/Turn D	43/33.5	43%	43%							35 ft
Drag Coefficient, Cd	0.26	0.25	0.24	0.25	0.28	0.29	0.295	0.32	0.24	0.30
Frontal Area, A _f		1.98 m ²	1.98 m²	1.98 m ²	2.16m ²	24.5 ft ²		25.8 ft ²	25.2 ft ²	3.1 m ²
Gear Ratio (P-Planetary)	P - 3.27	P - 3.27	Helical	4.11	8	7.939		7.05	9.73	
Tires			P195/65 R15	P195/65 R15	215/50R 17	205/55 R16	P225/5 0R17	P215/5 0R17	245/35 R19	225/65 R18
Tire Radius			0.287 m	0.287 m	12.7 in	12.44 in				14 in
Length (mm)	4445	4460	4540	4646	4498	4445	4392	4166	4978	
Width (mm)	1725		1760	1760	1788	1770	1882	1765	1956	
Height (mm)	1490		1470	1470	1438	1550	1478	1594	1448	
Weight/Mass (lbf/kg)	2900	3042	3064	3365	3794	3256	3624	3580	5051	3950