

EVs: Toyota Prius Gens, Nissan Leaf, Ford Focus, GM Volt & Bolt & Tesla S



Electric Vehicle Specifications	Prius Gen II	Prius Gen III	Prius Gen IV	Prius Prime Plug In	Chevy Volt Gen II	Nissan Leaf	Ford Focus Electric	Chevy Bolt EV	Tesla S P100D*
Years of manufacture	2003 – 2009	2010 - 2014	2015 - 2017	2017	2010 - 2017	2011 - 2017	2017 Hatch	2016 - 2017	2015 - 2017
Electric Vehicle Type	Full Hybrid	Full Hybrid	Full Hybrid	Plug In Hybrid	Series E-REV	All Electric	All Electric	All Electric	All Electric
Internal Combustion Eng Size	1.5L	1.8 L	1.8L	1.4/1.8L		N/A	N/A	N/A	N/A
ICE Engine HP/kW	76 / 57	98	95		84	None	None	None	N/A
Total Drive Train HP	110	134	121	121		96.3	143	200	570
ICE Torque	115 Nm	105 lb ft	105 lf ft	105 lb ft		None	None	None	N/A
ICE Engine RPM Redline	5000	5200	5200	5200		N/A	NA	NA	N/A
Electric Motor Power (HP)	67	80	71	31/71	149/74	96.3	143	200	765
Elt Motor Power, $P_{\max}$ (kW)	50		53	53	120	80	107	150	570
Max Motor Torque, $T_{\max}$ (ft lbf)	295	115	120	30/120	236	207	184	266	707
Fuel Economy(MPG /e)	42	50	55	54/113	/106	/112	/118	/119	/98
0-60 mph (seconds)	10.1	9.8	9.6	12.2/10.6	9.2	10.2	9.9	7	2.3
Average Acceleration (gs)	0.271	0.279	0.285		0.297	0.268		0.391	1.4*
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
All Electric Range (miles)	1.	1.5	1.5	25	53	107	115	200	314
Battery Energy (kWh)	1.3KWh	1.3KWh	1.3KWh	8.8kWh	18.4	30	33.5	60	100
Battery-Pack Voltage	201.6	201.6	201.6			360-403		350	394
Battery Amp-hr	6.5	6.5	6.5		50.4	32.5			120
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
Lifetime CO ₂ Savings	43%	43%	43%						
Drag Coefficient, Cd	0.26	0.25	0.24	0.25	0.28	0.29	0.295	0.32	0.24
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
Gear Ratio (P-Planetary)	P - 3.27	P - 3.27	Helical	4.11	8	7.939		7.05	9.73
Tires			P195/65R15	P195/65R15	215/50R17	205/55R16	P225/50R17	P215/50R17	245/35R19
Tire Radius			0.287 m	0.287 m	12.7 in	12.44 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

*1.4 sec is Tesla S's maximum acceleration. Fastest production car (1.4 gs) in the world.

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