

Hybrid Model Specifications: Toyota & GM



Manufacturer	Toyota	Toyota	Toyota	Toyota	GM
Model	Prius	Prius	Prius	Prius	Volt
Generation	I	II	III	IV	I
Hybrid Classification	Series-Parallel	Series-Parallel	Series-Parallel	Series-Parallel	E-REV
Years of manufacture	1997 – 1999	2000 – 2003	2004 – 2009	2010 - Future	2010 - Future
Chassis	NHW10	NHW11	NHW20	ZWV30	Voltec
MSRP			\$23,000	\$22,400	\$40,000
ICE Size			1.5L	1.8 L	1.4L
ICE (hp)	58	70	76 / 57kW	98/73 kW	71
Drive Train (hp)			110	134/100 kW	149 (Depletion)
ICE (Tractive) Torque (Nm)			115	142	N/A
ICE RPM Redline	4000	4500	5000	5200	
Electric Motor (hp/kW)	40/30	44/33	67/50	80/60	149/111
Electric Motor Torque(ft lbf)	225	258	295	207	273
Elec. Motor Reduction Gear	N/A	N/A	N/A	2.636	N/A
Generator Power (kW)			MG1 = 25	MG1 = 30	53
Final Gear Reduction Ratio			4.113	3.267	8?
0-60 mph Depltn/ Sustain(sec)	14.1	12.5	10.1	9.8	6.8-8.5 / 12
Top Speed (mph)				112	120
AER EPA City (miles)					40
Battery-Pack Energy (W/kg)	600	900	1250	1250	
Battery-Pack Energy (kWh)		6.5	6.5	6.5	16
Battery-Pack Voltage (V)	288	273.6	201.6	201.6	320-350
Peak Bat @50% SOC/4.3 min.					136 kW
Peak Bat @50% SOC/10s			21 kW	27 kW	
Peak Bat @50% SOC/1s			30 kW		
Battery-Pack Weight (kg)	57	52	45	42	136
Battery-Pack Section Type	D-Cell	Module	Module	Module	Li-Ion
Battery-Pack Section Count	40	38	28		
Hybrid System Voltage (V)	288	273.7	500	650	
Frontal Cross Section (m ²)			2.33	2.33	2.16
Drag Coefficient		0.29	0.26	0.25	0.26
Tire Size, Radius (in)			15		13.6
Curb Weight (lb)			2900	3042	3310