

2012 TESLA MODEL S SPECIFICATIONS AND FEATURES

PLEASE NOTE: Items in gray specify variants not yet in production.

Vehicles equipped with the 60 kWh Battery will begin production in Fall 2012, and vehicles equipped with the 40 kWh Battery will begin production in Winter 2012.

EXTERIOR DIMENSIONS		MODEL S	MODEL S PERFORMANCE	MODEL S SIGNATURE	MODEL S SIGNATURE PERFORMANCE
Length				4978 mm (196 in)	
Height				1435 mm (56.5 in)	
Width (with mirrors folded / with mirrors)				1964 mm (77.3 in) / 2189 mm (86.2 in)	
Unladen ground clearance				152.4 mm (6 in)	
Curb weight	40 kWh	Winter 2012	N/A	N/A	N/A
	60 kWh	Fall 2012	N/A	N/A	N/A
	85 kWh	Coming Soon	Coming Soon	2108 kg (4647.3 lbs)	2106 kg (4642.9 lbs)
Weight distribution (% front/rear)	40 kWh	Winter 2012	N/A	N/A	N/A
	60 kWh	Fall 2012	N/A	N/A	N/A
	85 kWh	48/52	48/52	48/52	48/52

INTERIOR DIMENSIONS		MODEL S	MODEL S PERFORMANCE	MODEL S SIGNATURE	MODEL S SIGNATURE PERFORMANCE
Effective Headroom (front / rear)				986 mm (38.8 in) / 897.2 mm (35.3 in)	
Effective Legroom (front / rear)				1083.7 mm (42.7 in) / 899.9 mm (35.4 in)	
Shoulder room (front / rear)				1465 mm (57.7 in) / 1396.8 mm (55.0 in)	
Hiproom (front / rear)				1397.4 mm (55.0 in) / 1390.4 (54.7 in)	
Total cargo volume				894.8 L (31.6 cu ft)	
Rear cargo volume (seats up / down)				744.7 L (26.3 cu ft) / 1645.2 L (58.1 cu.ft)	
Front cargo volume - Frunk				150.1 L (5.3 cu ft)	
Total Interior Volume				2692.9 L (95.1 cu ft)	
Seating capacity*				5	
EPA Classification				Large	

*Optional rear-facing child seat available (seats up to two children)

POWERTRAIN		MODEL S	MODEL S PERFORMANCE	MODEL S SIGNATURE	MODEL S SIGNATURE PERFORMANCE
Battery type				Liquid-cooled, lithium-ion	
Motor type				Liquid-cooled, 3-phase, 4-pole, AC induction	
Drive inverter				Variable frequency drive with regenerative braking	
High-performance drive inverter				•	
Energy (storage)		40 kWh, 60 kWh or 85 kWh	85 kWh	85 kWh	85 kWh
Peak motor power	40 kWh	Winter 2012	N/A	N/A	N/A
	60 kWh	Fall 2012	N/A	N/A	N/A
	85 kWh	362 hp (270 kW) @ 6,000-9,500 rpm	416 hp (310 kW) @ 5,000-8,600 rpm	362 hp (270 kW) @ 6,000-9,500 rpm	416 hp (310 kW) @ 5,000-8,600 rpm
Peak motor torque	40 kWh	Winter 2012	N/A	N/A	N/A
	60 kWh	Fall 2012	N/A	N/A	N/A
	85 kWh	325 lb-ft (440 Nm) @ 0-5,800 rpm	443 lb-ft (600 Nm) @ 0-5,100 rpm	325 lb-ft (440 Nm) @ 0-5,800 rpm	443 lb-ft (600 Nm) @ 0-5,100 rpm
Maximum/Redline rpm	40 kWh	Winter 2012	N/A	N/A	N/A
	60 kWh	Fall 2012	N/A	N/A	N/A
	85 kWh	15,400 rpm	16,000 rpm	15,400 rpm	16,000 rpm
Top speed / 0 to 60 mph	40 kWh	110 mph / 6.5 seconds	N/A	N/A	N/A
	60 kWh	120 mph / 5.9 seconds	N/A	N/A	N/A
	85 kWh	125 mph / 5.6 seconds	130 mph / 4.4 seconds	125 mph / 5.6 seconds	130 mph / 4.4 seconds
Quarter mile	40 kWh	Winter 2012	N/A	N/A	N/A
	60 kWh	Fall 2012	N/A	N/A	N/A
	85 kWh	13.7 seconds	12.6 seconds	13.7 seconds	12.6 seconds
Maximum phase current	40 kWh	Winter 2012	N/A	TBA	N/A
	60 kWh	Fall 2012	N/A	TBA	N/A
	85 kWh	900 A	1200 A	900 A	1200 A



POWERTRAIN cont'd		MODEL S	MODEL S PERFORMANCE	MODEL S SIGNATURE	MODEL S SIGNATURE PERFORMANCE
Supercharging (90 kW DC peak)	40 kWh	N/A	N/A	N/A	N/A
	60 kWh	Optional	N/A	N/A	N/A
	85 kWh	-	-	-	-
Drivetrain	Transverse rear motor, Rear Wheel Drive				
Gearbox type	Single ratio transaxle				
Reduction ratio	9.73 : 1				
Battery warranty	40 kWh	8 years / 100,000 miles	N/A	N/A	N/A
	60 kWh	8 years / 125,000 miles	N/A	N/A	N/A
	85 kWh	8 years / unlimited miles	8 years / unlimited miles	8 years / unlimited miles	8 years / unlimited miles
AC CHARGING (Household Current)		MODEL S	MODEL S PERFORMANCE	MODEL S SIGNATURE	MODEL S SIGNATURE PERFORMANCE
Charger type	Isolated, unity power factor				
Input compatibility*	85-265 V, 45-65 Hz, 1-80 A				
Mobile Connector	120 V and 240 V outlet adapters included, up to 240 V, 40 A				
High Power Wall Connector (Optional)	240 V hard-wired, up to 80 A				
J1772 Adapter	Public charging station adapter, up to 80 A (most public stations are 24 A)				
Peak charger efficiency	92%				
Single Charger - 10 kW on-board charger	-	-	-	-	-
Twin Chargers - 20 kW on-board charger	Optional	Optional	-	-	-
Charge rate** (miles of range per hour of charge)***	62				
<p>* When equipped with the Twin Chargers option **When using Twin Chargers combined with a High Power Wall Connector drawing 80 A ***When driving constant at 55mph, 19" tires, windows up, average ambient temperature</p>					
DC CHARGING (Tesla Superchargers)		MODEL S	MODEL S PERFORMANCE	MODEL S SIGNATURE	MODEL S SIGNATURE PERFORMANCE
Charge rate* (Superchargers provide up to 90 kW DC) (miles of range per hour of charge)	40 kWh	N/A	N/A	N/A	N/A
	60 kWh	Fall 2012	N/A	N/A	N/A
	85 kWh	Up to 300	Up to 300	Up to 300	Up to 300
Supercharger Hardware	Standard on 85 kWh and 60 kWh models				
Maximum charge recovery in 30 minutes	40 kWh	N/A	N/A	N/A	N/A
	60 kWh	Fall 2012	N/A	N/A	N/A
	85 kWh	50%	50%	50%	50%
*When driving constantly at 55mph, 19" tires, windows up, average ambient temperature					
CHASSIS		MODEL S	MODEL S PERFORMANCE	MODEL S SIGNATURE	MODEL S SIGNATURE PERFORMANCE
Track (front / rear)	1662 mm (65.4 in) / 1700 mm (66.9 in)				
Wheelbase	2960 mm (116.5 in)				
19" aluminum alloy wheels with Goodyear Eagle RS-A2-245/45R19 all-season tires	-	Optional	-	Optional	Optional
21" sonic silver aluminum alloy wheels with Continental Extreme Contact DW-245/35R21 high-performance tires	Optional	Optional	-	-	Optional
21" performance carbon gray aluminum alloy wheels with Continental Extreme Contact DW-245/35R21 high-performance tires	-	-	-	-	-
Front suspension	Double wishbone, virtual steer axis independent front suspension fitted with coil-over monotube shock absorbers, hollow aluminum steering knuckles, aluminum lower control arms and solid stabilizer bar				
Rear suspension	Multi-link independent all-aluminum rear suspension fitted with coil-over monotube shock absorbers, and solid stabilizer bar mounted to isolated hollow aluminum subframe				
Active Air Suspension	Optional	-	-	-	-
Steering system	Rack and pinion variable ratio, speed sensitive electronic power steering				
Steering column	Power tilt & telescopic				



CHASSIS cont'd		MODEL S	MODEL S PERFORMANCE	MODEL S SIGNATURE	MODEL S SIGNATURE PERFORMANCE
Steering wheel turns, lock-to-lock				2.45	
Steering ratio (Overall ratio)				13:1	
Turning diameter, curb-to-curb				37 ft	
Braking system		Anti-lock disc brakes (ABS) with electronic brake force distribution and secondary caliper electronically actuated parking brake			
Front brakes		Aluminum 4 piston fixed caliper with 355 mm x 32 mm ventilated rotor			
Rear brakes		Aluminum 4 piston fixed caliper with 365 mm x 28 mm ventilated rotor			
Electronic stability control		-	-	•	•
Traction control		-	-	•	•
Sport-tuned traction and stability control			-		•
RANGE*		MODEL S	MODEL S PERFORMANCE	MODEL S SIGNATURE	MODEL S SIGNATURE PERFORMANCE
EPA Range*	40 kWh	Winter 2012	N/A	N/A	N/A
	60 kWh	Fall 2012	N/A	N/A	N/A
	85 kWh	265 miles	265 miles	265 miles	265 miles
MPGe*(city / highway / combined)	40 kWh	Winter 2012	N/A	N/A	N/A
	60 kWh	Fall 2012	N/A	N/A	N/A
	85 kWh	88 / 90 / 89	88 / 90 / 89	88 / 90 / 89	88 / 90 / 89
EPA emissions rating		ZEV			
Estimated Range at 55 mph	40 kWh	160 miles	N/A	N/A	N/A
	60 kWh	230 miles	N/A	N/A	N/A
	85 kWh	300 miles	300 miles	300 miles	300 miles
*Based on 2012 EPA fuel economy methods with 5-cycle test. Actual mileage will vary for many reasons, including driving conditions and how the vehicle is driven and maintained.					
Link to Tesla's blog about efficiency & range: http://www.teslamotors.com/blog/model-s-efficiency-and-range					
BODY		MODEL S	MODEL S PERFORMANCE	MODEL S SIGNATURE	MODEL S SIGNATURE PERFORMANCE
Lightweight aluminum body reinforced with high-strength, boron steel elements		-	-	•	•
UV and infrared blocking safety glass windshield		-	-	•	•
Rain-sensing, adjustable-speed windshield wipers		-	-	•	•
Frameless, tempered safety glass front windows		-	-	•	•
Solar-absorbing, laminated safety glass rear window with defroster		-	-	•	•
Flush-mounted door handles		-	-	•	•
Manual-folding side mirrors		-	-	•	•
Exterior carbon fiber accents			-		•
Aluminum roof		Black or Body Colored	Black or Body Colored	Black or Body Colored	Black or Body Colored
All Glass Panoramic Roof		Optional	Optional	Optional	Optional
Bi-functional halogen headlights with automatic on/off, LED front turn, park and LED daytime running lights (DRLs)		-	-		
Bi-functional high intensity Xenon headlamps		Optional (Tech Package)	Optional (Tech Package)	•	•
LED front fog lamps, with steering-activated LED cornering lights		Optional (Tech Package)	Optional (Tech Package)	•	•
Feature backlit, turn side-repeater lamps, LED front and rear side-marker lights, fascia-mounted rear reflex reflectors		-	-	•	•
Electrochromatic side mirrors		Optional (Tech Package)	Optional (Tech Package)	•	•
LED rear taillights (stop/turn/ tail) and high-mounted LED stop lamp		-	-	•	•
Liftgate mounted LED tail and LED back up lamps		-	-	•	•



INTERIOR	MODEL S	MODEL S PERFORMANCE	MODEL S SIGNATURE	MODEL S SIGNATURE PERFORMANCE
8-way, power adjustable front seats	-	-	-	-
12-way, power adjustable, heated front seats driver's side memory	-	-	-	-
Surfaces and seating	Finely appointed interior features hand-wrapped surfaces of cloth and synthetic leather materials.	Nappa leather seats with contrast piping and Alcantara bolsters. Extensive leather throughout.	Perforated Nappa leather seats. Extensive leather throughout.	Nappa leather seats with contrast piping and Alcantara bolsters. Extensive leather throughout.
Piano black décor accents	-	-	-	-
Center armrest with two cup holders	-	-	-	-
Open center console storage area	-	-	-	-
Metal interior door handles	-	-	-	-
60/40 split fold-down rear seatback	-	-	-	-
Parcel shelf	Optional	Optional	-	-
Built-in rear-facing child seats*	Optional	Optional	Optional	Optional
*With 5 point seatbelt harnesses. Seats fold and tumble.				
COMFORT & CONVENIENCE	MODEL S	MODEL S PERFORMANCE	MODEL S SIGNATURE	MODEL S SIGNATURE PERFORMANCE
Keyless entry	-	-	-	-
Automatic keyless entry	Optional (Tech package)	Optional (Tech package)	-	-
Driver seat detection sensor for start-stop functionality	-	-	-	-
Cruise control	-	-	-	-
Standard-definition back-up camera	-	-	-	-
High-definition back-up camera	Optional (Tech package)	Optional (Tech package)	-	-
Manual rear liftgate	-	-	-	-
Power rear liftgate	Optional (Tech package)	Optional (Tech package)	-	-
Power windows featuring one-touch up/down with resistance reversing to protect against pinched fingers	-	-	-	-
Micro-filter ventilation system with replaceable filters	-	-	-	-
Front LED map lights	-	-	-	-
Front sun visors with mirrors	-	-	-	-
Fully trimmed trunk and rear cargo area with keyless open	-	-	-	-
12V power outlet	-	-	-	-
Automatic climate control with dual-zone temperature settings, air distribution controls and recirculation	-	-	-	-
Glove compartment	-	-	-	-
Dual-front USB ports for media and power	-	-	-	-
Homelink	Optional (Tech package)	Optional (Tech package)	-	-



AUDIO, INSTRUMENTATION & INFOTAINMENT	MODEL S	MODEL S PERFORMANCE	MODEL S SIGNATURE	MODEL S SIGNATURE PERFORMANCE
17" capacitive touchscreen with media, communication, cabin and vehicle controls	•	•	•	•
200-watt, 7-speaker stereo system	•	•	•	•
AM/FM/HD radio	•	•	•	•
MP3, AAC, and MP4 music format support	•	•	•	•
Flash memory storage for up to 500 songs	•	•	•	•
580-watt, 12-speaker, Dolby Pro Logic IIx 7.1 enhanced surround sound	Optional (Sound Studio package)	Optional (Sound Studio package)	•	•
Flash memory storage for up to 3,000 songs	Optional (Sound Studio package)	Optional (Sound Studio package)	•	•
Bluetooth wireless technology for hands-free calling and streaming music	•	•	•	•
Streaming audio	•	•	•	•
Satellite radio ready	Optional (Sound Studio package)	Optional (Sound Studio package)	•	•
Wi-Fi ready	•	•	•	•
Wireless connectivity (capability)	Optional (Tech package)	Optional (Tech package)	•	•
Navigation with 7 years of free map updates	Optional (Tech package)	Optional (Tech package)	•	•
Three-spoke, multi-function steering wheel with tactile controls	•	•	•	•
Tire pressure monitoring system	•	•	•	•
SAFETY	MODEL S	MODEL S PERFORMANCE	MODEL S SIGNATURE	MODEL S SIGNATURE PERFORMANCE
NHTSA rating		Not Yet Rated (Anticipated 5-Star Overall Safety Rating)		
Driver and passenger front air bags	•	•	•	•
Advanced side curtain air bags	•	•	•	•
Driver and front passenger knee air bags	•	•	•	•
Driver and front passenger seat side air bags	•	•	•	•
Driver and front passenger advanced seat sensors	•	•	•	•
Driver seat position sensor	•	•	•	•
Three point driver and front passenger safety belts with retractor pretensioner and load limiter and secondary lap anchor pretensioners	•	•	•	•
Three point second row safety belts for all seats	•	•	•	•
Front row acoustic safety belt warning	•	•	•	•
Rollover crash sensor	•	•	•	•
Crash sensor for high voltage disconnect	•	•	•	•
Three second row LATCH attachments*	•	•	•	•
Rear door child safety locks	•	•	•	•
Interior, emergency manual release mechanism for all doors, trunk and rear cargo area	•	•	•	•
Anti-theft alarm and immobilizer system	•	•	•	•
*To seat three children, one of the seats must be a non-LATCH type seat				