2012 HS 250h Product Information

Notes: All specs are for Standard and Premium models unless otherwise noted. Items in **bold** are new for 2012.

EXTERIOR DIMENSIONS		
Wheelbase		106.3 in.
Overall Length		184.8 in.
Overall Width		70.3 in.
Overall Height (unloaded)		59.3 in.
Tread Width	- Front	60.4 in.
	- Rear	60.2 in.
Ground Clearance		6.1 in.

INTERIOR DIMENSIONS		
Seating Capacity		5
Headroom	- Front (with moonroof)	38.0 in.
	- Rear	36.8 in.
Legroom	- Front	42.6 in.
	- Rear	34.5 in.
Shoulder Room	- Front	53.8 in.
	- Rear	54.2 in.
Hip Room	- Front	52.8 in.
	- Rear	51.2 in.
Total Interior Volume		90.2 cu. ft.
Cargo Volume		12.1 cu. ft.

WEIGHTS AND CAPACITIES	
Curb Weight	Standard: 3,682 lbs. Premium: 3,770 lbs.
GVWR	4,686 lbs.
Fuel Capacity	14.5 gal.

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HYBRID POWER SYSTEM		
Type		Series/parallel system with gas engine, high-voltage battery and electric motors
Total System Power		187 hp
ENGINE		
Type, Materials		4-cylinder, aluminum block and heads
Designation		2AZ-FXE
Valvetrain		DOHC 16-valve with intake VVT-i
Displacement		2.4-liter
Bore x Stroke		3.5 in. x 3.8 in.
Compression Ratio		12.5:1
Horsepower (SAE)		147 @ 6,000 rpm (not including hybrid drive)
Torque		138 lb.-ft. @ 4,400 rpm (not including hybrid drive)
Maximum Engine Speed (redline)		6,000 rpm
Fuel System		Sequential Multiport Fuel Injection (SFI)
Fuel Requirement		Performance Numbers achieved with 87-octane Unleaded fuel
Tailpipe Emission Certification		SULEV (California); Tier 2 – Bin 3 (all other states)
Evaporative Emission Certification		SULEV
ELECTRIC MOTORS		
Motor Generator 1 (MG1)	- Function	Generator, engine starter, transmission ratio control
	- Type	Permanent magnet motor
	- Max. voltage	AC 650V
Motor Generator 2 (MG2)	- Function	Drives front wheels, regeneration during braking
	- Type	Permanent magnet motor
	- Max. voltage	AC 650V
	- Max. output	141 hp (105 kW)
HYBRID BATTERY PACK		
Type		Sealed Nickel Metal Hydride (Ni-MH)
Nominal Voltage		244.8V

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DRIVETRAIN	
Layout	Front gas engine with hybrid transaxle and front electric drive motor
Transaxle/Transmission Type	Electronically Controlled continuously Variable Transmission (ECVT);planetary gear unit for gear reduction and power splitting, electronic front-wheel-drive control system
Designation	P311

CHASSIS AND BODY		
Body/Frame		Unitized steel
Suspension	- Front	MacPherson strut, coil springs
	- Rear	Double-Wishbone type with trailing arms
Steering	- Type	Electric Power Steering (EPS): Rack and pinion with electronic power assist
	- Overall Ratio	50:1
	- Turns (lock to lock)	2.8
	- Turning Circle (wall to wall)	39.4 ft.
	- Turning Circle (curb to curb)	37.4 ft.
Brake System		Electronically Controlled Brake (ECB2) system with regenerative control and incorporating Anti-lock Braking System (ABS)
Brake Rotors	- Front – type	Ventilated Disc/10.8 in.
	- Rear - type/ diameter	Disc/11.1 in.
Anti-Lock Braking System		4-channel, 4-sensor
Wheel Size/Type		17 x 7.0-inch.(standard) 18 x 7.5-inch. (optional)
Tire Size/Type		P215/55R17 All Season V-Rated (standard) P225/45R18 All Season W-Rated (optional)
Spare Tire/Wheel		T145/70D17 temporary spare

PERFORMANCE	
0-60 mph Acceleration (mfg. results)	8.4 sec.
0-1/4 Mile Acceleration (mfg. results)	16.6 sec.
Top Track Speed	112 mph
EPA-Estimated Fuel Economy (City/Hwy/Combined MPG)*	35/34/35
Coefficient of Drag (Cd)	0.27

* 2012 EPA MPG estimate. Actual mileage will vary.

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STANDARD EXTERIOR FEATURES

Overall Exterior Styling/Body Design

- 17-inch x 7.0-inch 5 spoke alloy wheels
- P215/55R17 V-rated all season tires
- Aluminum front hood
- Blue highlights added to front and rear "L" logo, engine cover, headlamp, rear combination lamp
- Exclusive chrome-accented hybrid front grille design
- "HYBRID" badge incorporated on side molding of rear doors
- Integrated color-keyed lower front and rear spoilers to improve fuel economy
- LED brake and tail lights
- "Lexus Hybrid Drive" engine cover
- Moonroof
- Side mirrors with integrated puddle lamps and turn signals
- Water-repellant front door glass

Body Structure and Paint

- Anti-chipping paint applied to rocker panels and wheel housing arch sections
- Exterior colors (9): Matador Red Mica, Tungsten Pearl, **Nebula Gray Pearl**, Obsidian, Satin Cashmere Metallic, Deep Sea Mica, Starfire Pearl, and two hybrid exclusive colors – Black Opal Mica and Silver Opal Mica
- High level of rust protection with zinc-plated steel on roof, trunk lid, doors and front fenders
- Highly rigid body, monocoque construction
- Infrared-cut glass windshield to reduce IR rays
- Measures to limit noise, vibration and harshness (NVH) have been applied throughout the vehicle
- Soft chip primer applied to hood for improved anti-chipping
- Sound insulation placed in door panels, instrument panel and floor mats
- UV-reducing glass used for all windows

STANDARD INTERIOR FEATURES

Interior Trim

- Carpeted floor mats
- Coat hooks
- Ecological plastics used in certain parts of the interior and luggage area
- Fabric covered sun visors with illuminated vanity mirrors and slide extensions
- Leather insert door panels
- Leather-trimmed seats: Black, Water Gray, or Parchment.
- Leather-trimmed three-spoke steering wheel and shift knob
- Soft touch stitched instrument cluster hood and center console borders

Notes: All specs are for Standard and Premium models unless otherwise noted. Items in **bold** are new for 2012.

STANDARD INTERIOR FEATURES - CONT.

Seats and Cargo Area

- 10-way power driver's seat: fore-aft slide; fore-aft recline; front vertical height; rear vertical height and power lumbar support
- Eight-way power front passenger's seat: fore-aft slide; fore-aft recline; front vertical height; rear vertical height
- Five separate, manually adjustable (up/down) headrests

Instrumentation and Controls

- Drive modes - Normal, Eco, EV, Power
- Eco Driving indicator light
- Organic white Light-Emitting Diode (OLED) multi-information display
- Scheduled maintenance indicator light
- Shift by wire transmission shifter located in center instrument panel

Comfort/Convenience Features

- 12-volt power outlet: center console
- Assist grips: two front, two rear
- Auto on/off headlamps
- Automatic dual-zone climate control
- Bluetooth® hands-free system with voice control of phone and easy download of address book from compatible phones (PBAP profile)
- Center console with two cupholders and storage bin
- Courtesy lights mounted on doors
- Cup holders with 20-ounce water bottle capacity (rear and front doors)
- Dual sliding sun visors
- Dust and pollen particle and deodorizing interior air filter
- Electric fuel door and trunk release
- Electrochromic inside mirror with compass
- First aid kit
- Front cupholders
- Heated outside mirrors
- Illuminated glove box
- Incandescent dome light and map lights
- Integrated front fog lamps
- Lexus Personalized Settings (LPS) allow select vehicle settings to be tailored to owner preference (programmable by owner) through steering wheel buttons or optional Remote Touch with Navigation controls.
- Manual front seatbelt anchor height adjusters
- Power door locks with anti lock-out feature
- Power windows with one-touch auto up/down feature with jam protection for all windows
- Programmable garage door opener (Homelink®)

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STANDARD INTERIOR FEATURES - CONT.

- Rear air conditioning vents mounted on rear of center console
- SmartAccess key system with push-button start
- Steering wheel audio controls
- Tilt-and-telescopic steering column
- Tool kit
- Trunk light
- Variable intermittent windshield wipers

STANDARD AUDIO SYSTEM

Lexus Premium Audio

- 10 speakers
- AM/FM/in-dash six-disc CD auto-changer with automatic sound levelizer (ASL) and MP3/WMA capability
- Integrated SiriusXM Satellite Radio receiver (complimentary 90-day trail subscription included)
- MP3 and USB/iPod® audio input plugs with iPod connectivity
- Streaming audio via Bluetooth®

STANDARD SAFETY AND SECURITY

Safety

- Active headrests for front seats
- Automatic Locking Rear Retractor (ELR) seat belt function on all seating positions except driver (ELR only)
- Daytime Running Lights (DRL) with off switch
- Direct-type tire pressure monitoring system
- Driver and front passenger advanced airbag system (SRS) with front passenger twin-chamber airbag
- Driver and front passenger knee airbags (SRS)
- Electronic Controlled Braking (ECB)
- Enhanced side-impact protection
- Enhanced-VSC (Vehicle Stability Control)
- Flashing seatbelt warning light for driver and front passenger
- Force-limiting seatbelt pre-tensioners for the driver and front passenger's seats and rear outboard seats
- Four-sensor, four-channel Anti-lock Braking System (ABS) with Brake Assist (BA)
- Front and rear side-curtain airbags (SRS)
- Front and rear seat-mounted side airbags (SRS)
- Front corner windows improve visibility
- High tensile-strength sheet steel and aluminum components
- Side impact door beams
- Soft, impact-dissipating upper interior trim

Notes: All specs are for Standard and Premium models unless otherwise noted. Items in **bold** are new for 2012.

STANDARD SAFETY AND SECURITY – CONT.

- Supplemental Restraint System (SRS) for driver and front passenger:
  - Driver dual-stage airbag uses factors including crash severity and seat track position to choose possible deployment speed.
  - Front passenger dual-stage twin-chamber airbag uses crash severity sensors to choose deployment speed. Airbag is designed to not deploy for passengers under 68.3 lbs or when child seat is detected. (Advanced airbags in compliance with FMVSS208)
- Tire Pressure Monitor System (TPMS)
- Traction Control (TRAC)
- Vehicle Stability Control (VSC)

Security

- Entry system with lock, two-stage unlock, trunk open and "panic" features, volume-adjustable confirmation tone and rolling code technology
- Headlight off delay feature: after locking vehicle, headlights remain illuminated for a certain period of time before automatically shutting off
- Remote-activated/key-linked illuminated entry: dome light illuminates when doors are unlocked (remain illuminated for 15 seconds or until door is opened)
- Safety Connect® with Automatic Collision Notification, Stolen Vehicle Location, Emergency Assist Button, and Enhanced Roadside Assistance (complimentary one-year trial subscription included)
- Vehicle theft-deterrent system

STANDARD MECHANICAL FEATURE

- Smart Stop Technology

HS 250h PREMIUM MODEL

Includes all previously mentioned standard features plus:

- 18-inch alloy wheels with all-season tires
- Driver's seat memory
- Electrochromic side-view mirrors with memory and reverse tiltdown
- Heated/ventilated front seats
- Power passenger-side lumbar support
- Power tilt/telescope steering wheel with memory
- Rain-sensing windshield wipers
- Semi-aniline leather-trimmed seating
- Wood-trimmed interior

Notes: All specs are for Standard and Premium models unless otherwise noted. Items in **bold** are new for 2012.

FACTORY OPTIONS

- 18-inch x 7.5-inch split-seven spoke alloy wheels with 225/45WR18 all-season tires (Standard model only)
- Backup Monitor
- Brown walnut wood-trimmed interior (Standard model, requires heated seats)
- Heated front seats (Standard model only)
- LED Headlamps with Adaptive Front-lighting System (AFS), Intelligent High-Beam and Headlamp Washers **(Requires Navigation Package)**
- Rear spoiler

- Mark Levinson® Premium Surround System (Available only on Premium Model and requires Navigation Package)
  - 0.1% total harmonic distortion from 20-20,000 Hz.
  - 7.1-channel speaker architecture
  - 15 speakers
  - 330-watt
  - DVD audio/video capability
  - Ultra-low crossover distortion

- Navigation Package (Requires Backup Monitor or Wide View Front Monitor with Backup Monitor)
  - Bluetooth® hands free phone and phonebook download capabilities
  - Lexus Enform® with SafetyConnect®: Automatic Collision Notification, Stolen Vehicle Location, Emergency Assist Button (SOS), Enhanced Roadside Assistance, Destination Assist, and eDestination (complimentary one-year trial subscription)
  - Lexus Insider™
  - HDD Navigation (generation 6 system)
  - NavTraffic, NavWeather, Sports, and Stocks (90-day trial subscription included)
  - Plasmacluster® air ionizer
  - Remote Touch navigation controller
  - Voice command casual-language voice recognition system

- Park Assist Package (Available only on Premium model and requires Navigation Package)
  - Intuitive Park Assist (IPA)
  - Wide-view Front Monitor with Backup Monitor

- Technology Package (Available only on Premium model and requires Navigation Package)
  - Backup Monitor
  - Driver Attention Monitor
  - Heads-Up Display (HUD) with Touch Tracer
  - Intuitive Park Assist (IPA)
  - Lane Keep Assist (LKA) with Lane Departure Warning (LDW)
  - Pre-Collision System (PCS) with Dynamic Radar Cruise Control
  - Wide-view Front Monitor

Notes: All specs are for Standard and Premium models unless otherwise noted. Items in **bold** are new for 2012.

FACTORY OPTIONS

- Touring Package (Standard model only)
  - 18-inch x 7.5 inch split-seven spoke alloy wheels with unique high-gloss finish and 225/45WR18 all-season tires
  - Sport pedals
  - Heated front seats
  - Illuminated front door-sill scuff plates
  - Rear spoiler
  - Sport pedals
  - Sport-tuned suspension
  - Two-tone leather-trimmed interior (Black/Water Gray with contrast stitching)