

## LEXUS LS 500h TECHNICAL SPECIFICATIONS

<b>ENGINE AND HYBRID SYSTEM</b>		
Engine code		8GR-FXS
Engine type		3.5-litre V6
Valve mechanism		24-valve DOHC with VVT-iW (intake) and VVT-i (exhaust)
Displacement (cc)		3,456
Bore x stroke (mm)		94.0 x 83.0
Compression ratio		13.0:1
<b>Total system output (bhp/DIN hp/kW)</b>		<b>354/359/264</b>
Max. engine power (bhp/DIN hp/kW @ rpm)		295/299/220 @ 6,600
Max. engine torque (Nm @ rpm)		350 @ 5,100
<b>Motor generator</b>		
Type		A/C permanent magnet, synchronous motor
Max. voltage		650
Max. power (bhp/kW)		177/132
Max. torque (Nm)		300
<b>Hybrid battery</b>		
Type		Lithium-ion
Nominal voltage		310.8
Number of cells		84
System voltage		650
<b>PERFORMANCE</b>		
0-62mph (sec)	RWD	5.4
	AWD	5.5
Max. speed (mph)		155
<b>DIMENSIONS</b>		
Overall length (mm)		5,235
Overall width (mm)		1,900
Overall height (mm)	Coil suspension	1,460 – RWD 1,470 - AWD
	Air suspension	1,450 – RWD 1,460 - AWD
Wheelbase (mm)		3,125
Track front (mm)	RWD	1,630
	AWD	1,630 – coil suspension & F Sport 1,635 – Air suspension
Track rear (mm)	RWD	1,635 / 1,615 – F Sport
	AWD	1,635 / 1,615 – F Sport
Overhang front (mm)		940
Overhang rear (mm)		1,170
Coefficient of Drag (Cd)		0.26
Luggage capacity (litres)		430

<b>WEIGHTS (kg)</b>		
Kerb weight (kg)	RWD	2,175 – 2,215 coil springs 2,265 – 2,320 air suspension 2,270 – 2,290 F Sport
	AWD	2,340 – 2,400 2,380 – 2,425 with Relaxation Package
Gross vehicle weight (kg)	RWD	2,725
	AWD	2,800
<b>TRANSMISSION</b>		
		<b>Multi Stage Hybrid</b>
Gear ratios	1 <sup>st</sup>	3.538
	2 <sup>nd</sup>	1.888
	3 <sup>rd</sup>	1.000
	4 <sup>th</sup>	0.650
	5 <sup>th</sup>	Variable
	6 <sup>th</sup>	Variable
	7 <sup>th</sup>	Variable
	8 <sup>th</sup>	Variable
	9 <sup>th</sup>	Variable
	10 <sup>th</sup>	Variable
	Reverse	N/A
Differential ratio	RWD	3.615
	AWD	3.916
<b>FUEL CONSUMPTION (WLTP)</b>		
Combined – (mpg)	RWD	35.7 – 36.6
	AWD	30.7 – 30.7
Fuel tank capacity (l)		82
<b>EMISSIONS (WLTP), INSURANCE, SERVICING &amp; WARRANTY</b>		
CO <sub>2</sub> emissions – combined (g/km)	LS	175
	LS Premium Pack	177 – RWD 208 - AWD
	F Sport	178
	Takumi	209
Insurance groups		50E
Service intervals		10,000 miles/annually
Comprehensive new vehicle warranty		3 years/60,000 miles
Hybrid warranty		5 years/60,000 miles (whichever comes first)
Corrosion/perforation warranty		12 years/unlimited mileage
Surface rust/paintwork		3 years/unlimited mileage
<b>SUSPENSION</b>		
Front		High-mount multilink
Rear		High-mount multilink
<b>BRAKES</b>		
Front		Ventilated discs with 6-pot callipers – F Sport Ventilated discs with 4-pot callipers – other grades

Rear	Ventilated discs with 4-pot callipers – F Sport Ventilated discs with 2-pot callipers – other grades
Front disc size (diameter, mm)	400 – F Sport 357 – other grades
Rear disc size (diameter, mm)	359 – F Sport 335 – other grades
<b>STEERING</b>	
Type	Rack and pinion, electric power steering
Ratio	13.0:1
Turns (lock to lock)	RWD – 2.9 AWD – 2.8
Min. turning radius, tyre (m)	RWD – 5.7 AWD – 6.0
<b>WHEELS &amp; TYRES</b>	
Wheel sizes	20-inch cast alloy with noise reduction 20-inch cast aluminium – F Sport
Tyre Sizes	245/45RF20 245/45RF20 front/275/40RF20 rear – F Sport

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