

LEXUS LS 500h TECHNICAL SPECIFICATIONS

ENGINE AND HYBRID SYSTEM		
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
Total system output (bhp/kW)		354/264
Max. engine power (bhp/kW @ rpm)		295/220 @ 6,600
Max. engine torque (Nm @ rpm)		350 @ 5,100
Motor generator		
Type		A/C permanent magnet, synchronous motor
Max. voltage		650
Max. power (bhp/kW)		177/132
Max. torque (Nm)		300
Hybrid battery		
Type		Lithium-ion
Nominal voltage		310.8
Number of cells		84
System voltage		650
PERFORMANCE		
0-62mph (sec)	RWD	5.4
	AWD	5.5
Max. speed (mph)		155
DIMENSIONS		
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	11,635 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
Fuel tank capacity (litres)		82

Luggage capacity (litres)		430
WEIGHTS (kg)		
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
TRANSMISSION		
		Multi Stage Hybrid
Gear ratios	1 st	3.538
	2 nd	1.888
	3 rd	1.000
	4 th	0.650
	5 th	Variable
	6 th	Variable
	7 th	Variable
	8 th	Variable
	9 th	Variable
	10 th	Variable
	Reverse	N/A
Differential ratio	RWD	3.615
	AWD	3.916
FUEL CONSUMPTION		
Combined – WLTP data (mpg)	RWD	35.66 to 37.29
	AWD	30.34 to 32.44
EMISSIONS & INSURANCE		
CO ₂ - combined NEDC correlated data (g/km)	RWD	147
	AWD	161
Insurance groups	50E	
SUSPENSION		
Front	High-mount multilink	
Rear	High-mount multilink	
BRAKES		
Front	Ventilated discs with 6-pot callipers – F Sport Ventilated discs with 4-pot calipers – other grades	
Rear	Ventilated discs with 4-pot calipers – F Sport Ventilated discs with 2-pot calipers – other grades	
Front disc size (diameter, mm)	400 – F Sport 357 – other grades	
Rear disc size (diameter, mm)	359 – F Sport 335 – other grades	
STEERING		
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
WHEELS & TYRES		
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