

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	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
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		3.615 RWD 3.916 AWD
FUEL CONSUMPTION		
Combined (mpg)	RWD	43.5
	AWD	39.8
Urban (mpg)	RWD	36.2
	AWD	34.0
Extra urban (mpg)	RWD	46.3
	AWD	42.2
EMISSIONS & INSURANCE		
CO ₂ - combined (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	

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