

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/DIN hp/kW)		354/359/264
Max. engine power (bhp/DIN hp/kW @ rpm)		295/299/220 @ 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
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 (WLTP)		
Combined – (mpg)	RWD	35.7 – 36.6
	AWD	30.7 – 30.7
Fuel tank capacity (l)	82	
EMISSIONS (WLTP), INSURANCE, SERVICING & WARRANTY		
CO ₂ 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	
SUSPENSION		
Front	High-mount multilink	
Rear	High-mount multilink	
BRAKES		
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
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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