

2015 Infiniti Q50 Sports Sedan – Hybrid

Technical Specifications, Features and Options

Source of Production: Nissan Motor Co., Ltd.

Assembly Plant Location: Tochigi, Japan

Note: 2015 Infiniti Q50 non-hybrid specifications available at InfinitiNews.com

GASOLINE ENGINE	
Type	VQ35 DOHC 24-valve
Orientation	Longitudinal
Cylinders / configuration	V6 with molybdenum coated pistons
Block / head composition	Aluminum-alloy
Displacement	3.5 liters (3,498 cc)
Horsepower	302 hp @ 6,800 rpm
Torque	258 lb-ft @ 5,000 rpm
Bore x stroke (mm)	95.5 x 81.4
Compression ratio (:1)	10.6
Induction system	Sequential multi-port fuel injection
Valvetrain	4 valves per cylinder
Engine mounts (Type)	Side: 2 (liquid-filled) Rear: 1 (liquid-filled)
Recommended fuel	Premium (required)
Emissions system	Closed loop feedback system with 2 catalysts
Exhaust	Dual exhaust with polished tips
Maximum engine speed	7,500 rpm
Emissions certification level	50 state LEV2

ELECTRIC MOTOR	
Type	Advanced electric motor
Horsepower	67 @ 1,650 – 2,000 rpm
Torque	214 lb-ft @ 1,650rpm

BATTERY	
Type	High-output laminated Lithium-ion (Li-ion)
Capacity	1.4 Wh
Nominal voltage	346 V
Battery saver timing device	Standard

HYBRID SYSTEM NET POWER	
Horsepower	360 hp

DRIVETRAIN	Q50 Hybrid Premium	Q50S Hybrid
Drive configuration		
Front engine/rear-wheel drive	S (RWD)	S (RWD)
Front engine/ATESSA ET-S® all-wheel drive	S (AWD)	S (AWD)
Transmission type	7-speed automatic w/Sport mode and Downshift Rev Matching	
Adaptive Shift Control	S	
Hill Start Assist	S	

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Gear ratios (:1)	1st	4.783
	2nd	3.102
	3rd	1.984
	4th	1.371
	5th	1.000
	6th	0.870
	7th	0.775
	Rev.	3.858
Final drive ratio (:1)		2.611
Advanced Vehicle Dynamic Control (VDC) with cancellation switch		S

BODY, SUSPENSION AND STEERING		Q50 Hybrid Premium	Q50S Hybrid
Body type	Unibody	High-strength steel corrosion-resistant, aluminum hood	
Front suspension		Independent double-wishbone w/stabilizer bar	
Rear suspension		Multi-link independent w/stabilizer bar	
Sport tuning with double-piston KYB shocks		S	
Steering type		Direct Adaptive Steering	
Steering ratio -	RWD	12.07 – 36.98	
Direct Adaptive Steering	AWD	11.92 – 36.54	
Turning diameter (feet)	RWD	36.7	
	AWD	37.4	
Turns (lock-to-lock)	RWD	2.125	
	AWD	2.026	

BRAKES		Q50 Hybrid Premium	Q50S Hybrid
Type		Electric Driven Intelligent Brake (regenerative)	
Power-assisted vented disc (in.)	Front 12.6 x 1.1	S	-
	Rear 12.1 x 0.6	S	-
	Front 14.0 x 1.3	-	S
	Rear 13.8 x 0.8	-	S
4-piston front/2-piston rear calipers		-	S
Electronic Brake force Distribution		S	
Brake Assist with Preview Braking Function		S	
4-wheel/4-channel/4-sensor Anti-lock Braking System (ABS)		S	
Parking brake		Foot-operated	

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WHEELS AND TIRES		Q50 Hybrid Premium	Q50S Hybrid
Wheels			
Aluminum-alloy	17x7.5-in machine finish	S	-
	19x8-in split 5-spoke	-	S
Tires			
All-Season	Bridgestone 225/55R17	S	-
All-Season	Dunlop 225/40R19	-	S - AWD
Summer	Dunlop 225/40R19	-	S- RWD

EXTERIOR DIMENSIONS (inches)		Q50 Hybrid Premium	Q50S Hybrid
Wheelbase		112.2	
Overall length		188.3	189.1
Overall width		71.8	
Overall height	RWD	56.8	
	AWD	57.2	
Front track width	RWD	60.8	
	AWD	60.4	
Rear track width	RWD	61.8	
	AWD	61.4	
Minimum ground clearance	RWD	5.1	4.8
	AWD	5.2	4.8
Coefficient of Drag (Cd)	RWD	0.26	0.27
	AWD	0.26	0.28

EXTERIOR FEATURES AND OPTIONS		Q50 Hybrid Premium	Q50S Hybrid
Signature LED headlights (LED high/low beam), daytime running lights		S	
Automatic on/off		S	
Adaptive Front lighting System (AFS) with high beam assist technology		P	
Front LED fog lights and turn signals (mounted in lower fascia)		S	
Body-color dual power controlled heated outside mirrors		S	
Auto dimming outside mirrors with reverse synchronization, memory feature		P	
Tinted glass power moonroof with rear tilt feature, sliding sunshade, one-touch operation		S	
Unique sport front fascia		-	S

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INTERIOR DIMENSIONS (inches)	Front	Rear
Headroom without moonroof	40.2	37.5
Headroom with moonroof	39.5	36.8
Shoulder room	56.7	56.1
Hip room	53.2	52.5
Legroom	44.5	35.1

INTERIOR FEATURES AND OPTIONS	Q50 Hybrid Premium	Q50S Hybrid
Leather-appointed seats	S	
Sport-type leather-appointed seats	-	S
8-way power driver's seat w/power adjustable lumbar support	S	
8-way power front passenger's seat	S	
Front sport driver's seat with manual thigh extension and power thigh and torso bolster adjustment	-	S
Front sport passenger's seat with manual thigh extension	-	S
Leather-covered steering wheel with illuminated audio and cruise control buttons	S	
Heated steering wheel	S - AWD	S- AWD
Fine Vision electroluminescent instrumentation	S	
Infiniti InTouch™ dual display system with upper 8" and lower 7" VGA LCD touch screens	S	
Infiniti InTouch™ Apps	S	
Infiniti Controller	S	
Infiniti InTuition™: fully customizable digital environment for storing driver settings to Intelligent Key	S	
"Kacchu" finish aluminum trim	S	
Maple wood trim	P	
Aluminum sill plates w/ "Infiniti" script	S	
Heated front seats	S	
Around View® Monitor with Moving Object Detection (MOD)	P	
RearView Monitor	S	
HomeLink® Universal Transceiver	S	
Bluetooth® Hands-free Phone System with hands-free text messaging assistant	S	
Dual Zone Automatic Temperature Control with microfiltration	S	
Advanced Climate Control System (ACCS) with Plasmacluster® air purifier	P	
Aluminum-accented pedals	-	S
Rear seat reading lights	S	

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Memory system for driver's seat, steering wheel and outside mirror		P
Driver's seat, steering wheel and outside mirrors position synchronization		P
Power tilt and telescope steering wheel with entry/exit assist		S
Rear window defroster with indicator light and timer		S
Illuminated entry system with time delay fade-out		S
Front seatback pockets		S
Cruise control w/ steering wheel mounted controls		S
Intelligent Cruise Control		P
Power windows with front one-touch auto-up/down with auto-reverse feature, remote keyless entry operable		S
Remote trunk release, electromagnetic trunk opener		S
Locking glove compartment with light		S
Driver and front-passenger sun visors with extenders and illum. vanity mirrors		S
Dual overhead map lights w/ sunglasses holder		S
Cupholders, 4 front, 2 rear		S
Infiniti Intelligent Key system with push button ignition		S
Trunk illumination and hooks (4)		S
Solid magnesium paddle shifter	-	S
Active Noise Control (ANC)		S

INSTRUMENTATION	
Analog speedometer, tachometer, coolant temperature and fuel gauges and white electroluminescent instrumentation	S
Odometer with dual trip meters	
Multi-function trip computer display w/instant fuel economy, driving time, outside temperature, distance to empty, average speed, average fuel economy	
HEV power gauge/meter	S

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AUDIO AND NAVIGATION SYSTEMS	Q50 Hybrid Premium	Q50S Hybrid
Infiniti Studio on Wheels by Bose® Premium Audio system with 14 speakers, Bose® Centerpoint® simulated sound		S
HD radio		S
Speed sensing volume control		S
Two USB inputs, aux input and video input		S
Rear window in-glass diversity antenna		S
SiriusXM Satellite Radio (SiriusXM subscription required, sold separately)		S
SiriusXM Travel Link with access to weather, fuel prices, stocks, sports and movie times (SiriusXM subscription required, sold separately; late availability)		S
Steering-wheel mounted audio controls		S
Infiniti Voice Recognition		S
Infiniti InTouch™ Navigation System with Lane Guidance and 3-D building graphics, Infiniti Connection telematics system including one year of safety, security and convenience services, SiriusXM Traffic including real-time traffic information (SiriusXM subscription required, sold separately), Voice Recognition for navigation functions, including one-shot voice destination		P

CAPACITIES	
Seating capacity	5
Interior passenger volume (cu. ft.)	100.0
Trunk volume (cu. ft.)	9.4
Fuel tank (gals.)	17.8
Engine oil (qts.)	5.2
Engine coolant (qts.)	11.4

EPA MILEAGE ESTIMATES (Actual mileage may vary)	Q50 Hybrid Premium RWD	Q50 Hybrid Premium AWD	Q50S Hybrid RWD	Q50S Hybrid AWD
City	29	28	28	27
Highway	36	35	34	31
Combined	31	30	30	28
EPA Classification	Compact cars			

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PERFORMANCE 0-60 MPH	
Rear-wheel drive	4.9 seconds
All-wheel drive	5.2 seconds

CURB WEIGHTS (lbs)	Q50 Hybrid Premium RWD	Q50 Hybrid Premium AWD	Q50S Hybrid RWD	Q50S Hybrid AWD
Front	2,090	2,235	2,119	2,262
Rear	1,823	1,850	1,854	1,883
Total	3,913	4,085	3,973	4,145
Weight distribution (% fr/rr, w/ driver)	53.4/46.6	54.7/45.3	53.3/46.7	54.6/45.4
GVWR (lbs.)	4,960	5,159	4,960	5,159

SAFETY AND SECURITY FEATURES	Q50 Hybrid Premium	Q50S Hybrid
Advanced Air Bag System (AABS) with dual-stage supplemental front air bags with occupant classification sensor	S	
Front seat-mounted side impact supp. air bags		
Roof-mounted curtain side impact supplemental air bags for front and rear-seat outboard occupant head protection		
LATCH System (Lower Anchors and Tethers for CHildren)		
Front seat belts with pretensioners and load limiters		
Zone Body construction		
Power window lockout function		
Shift interlock system		
Energy-absorbing steering column		
Vehicle Security System with indicator light and Infiniti Vehicle Immobilizer System		
Remote Keyless Entry system with panic alarm		
Vehicle Dynamic Control (VDC)		
Tire Pressure Monitoring System (TPMS)		
Brake-Operated Pre-Crash Seat Belts	P	
Blind Spot Warning (BSW) and Blind Spot Intervention® (BSI)	P	
Intelligent Cruise Control (Full Speed Range)	P	
Backup Collision Intervention (BCI)	P	
Distance Control Assist (DCA)	P	
Predictive Forward Collision Warning (PFCW)	P	
Forward Emergency Braking (FEB)	P	
Lane Departure Warning (LDW)	P	
Lane Departure Prevention with Active Lane Control™ (utilizing world's first production Direct Active Steering technology)	P	

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PACKAGES AND OPTIONS	Q50 Hybrid Premium	Q50S Hybrid
Navigation Package: Infiniti InTouch™ Navigation System with Lane Guidance and 3-D building graphics, Infiniti Connection™ telematics system including one year of safety, security and convenience services, SiriusXM Traffic including real-time traffic information (SiriusXM subscription required, sold separately), Voice Recognition for navigation functions, including one-shot voice destination entry	O	O
Deluxe Technology Package: Auto-dimming outside mirrors with reverse synchronization; memory function for steering wheel, driver's seat and outside mirrors (linked to i-Key); genuine wood trim; Around View® Monitor with Moving Object Detection (MOD), front and rear parking sensors; rain-detecting windshield wipers; Adaptive Front lighting System (AFS) with high beam assist technology; Distance Control Assist (DCA); Blind Spot Warning (BSW) and Blind Spot Intervention (BSI); Front Pre-Crash Seat Belts; Intelligent Cruise Control (Full-Speed Range); Predictive Forward Collision Warning (PFCW); Backup Collision Intervention (BCI), Forward Emergency Braking (FEB); Lane Departure Warning (LDW); Lane Departure Prevention (LDP) with Active Lane Control; Eco pedal; Advanced Climate Control System (ACCS) with Plasmacluster® air purifier	O	O
Pearl Paint: Moonlight White premium paint	O	O

O – Optional

S – Standard

P – Included in Package

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