

**For Immediate Release**

## 2008 Nissan Altima Hybrid Specifications

*Specifications are based on latest product information available at the time of printing*

### ***Mechanical***

#### **Gasoline Engine**

Type	QR25
Cam design	DOHC
Orientation	Transverse
Cylinders/configuration	I4
Block/head composition	Aluminum/aluminum
Displacement	2.5 liters (2488 cc)
Horsepower	158 hp @ 5,200 – 6,000 rpm
Torque	162 lb-ft @ 2,800 – 4,800 rpm
Bore & stroke (mm)	89.0 mm x 100.0 mm
Compression ratio (:1)	9.6
Maximum engine speed	6,200 rpm
Induction system	Sequential multi-point electronic fuel injection
Ignition system	Electronic (direct)
Valvetrain	4-valves per cylinder with Continuously Variable Timing Control System (CVTCS)
Engine mounts	3 fluid filled, 1 conventional
Recommended fuel	Regular unleaded
Emissions certification level	Advanced Technology – PZEV
Exhaust	Dual exhaust

#### **Electric Motor**

Type	Permanent magnet AC synchronous motor
Horsepower	40 hp @ 0 – 1,500 rpm (assisted power)
Torque	199 lb-ft @ 0 – 1,500 rpm (105 kW @ 4,500 rpm)
Voltage	650V maximum

#### **Battery**

Type	Sealed Nickel Metal Hydride (Ni-MH)
Voltage	244.8V
Power (peak horsepower rating)	40 hp (30 kW)

#### **Hybrid System Net Power**

Horsepower	198 hp (148 kW)
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### Transmission and Drive System

Drive configuration	Front engine/front-wheel drive
Vehicle Dynamic Control (VDC) with Traction Control System (TCS)	S
Transmission type	Continuously Variable Transmission (CVT)
Transmission control	Electronic, hybrid-type
Shifter style	Automatic, straight-type
Gear ratios	
High	
Low	
Reverse	
Final gear ratio	

### Brakes

Front (in.)	11.7x1.02t Vented disc
Rear (in.)	11.5x.35t Self-adjusting solid disc
Brake control	Brake Assist (BA), Electronic Brake force Distribution (EBD) and Regenerative Cooperative braking
Anti-lock Braking System (ABS)	S
Parking brake	Foot brake

### Steering

Type	Electric power-assisted rack-and-pinion
Overall ratio	2.83:1
Turns (lock-to-lock)	2.76
Turning diameter (curb-to-curb, ft.)	37.4
Steering Wheel	
Type, material	4-spoke, leather
Diameter	380 mm
Manual adjustments	Tilt, telescope

### Suspension

Front	
Type	Independent strut w/ coil springs
Stabilizer bar diameter	23.0 mm/24.2 mm SE
Rear	
Type	Multi-link independent
Stabilizer bar diameter	17.3 mm/ 18.3 mm SE

### Body/Chassis

Type	Unibody
Primary materials	Corrosion-resistant and ultra-high strength steel

## *Exterior*

### **Wheels & Tires**

Wheels		
Material	Aluminum-alloy	
Size (in.)	7JJx16	
Tires		
Type	All-season	
Size	P215/60R16	
Brand, model	Continental, ContiPro Contact	
Spare tire		
Size	T135/90R16	
Location	Trunk	

### **Lights**

Headlights		
Type	Halogen	
Auto on/off	P	
Auto cut-off (5 min. after ignition is switched off)	S	
Center high mount stop light	S (on spoiler)	

### **Outside Mirrors**

Type	Body-colored, dual	
Adjustment		
Power remote-controlled	S	
Manual folding	P	
Heated	P (includes timer)	

### **Moldings & Trim**

Bumpers	Body-colored	
Door handles	Body-colored	
Splash guards (body-colored)	S	
Grille finish	Dark grey w/ chrome surround	
Spoiler	P	
Body side moldings	Body-colored	

### **Glass**

Windshield	UV reducing solar glass, green-tinted (with dark upper shade)	
Front & rear door windows	UV reducing solar glass, green-tinted	
Rear window		

## *Interior*

### Seating

Capacity	5 passenger
Materials	
Cloth	S
Leather-appointed	P
Front seats	
Style	Bucket
Heated	P
Driver's seat	6-way power (8-way opt.)
Power lumbar	P
Passenger's seat	4-way manual
Headrests	Height-adjustable dual Active Head Restraints
Seatback pockets	S
Rear seats	
Style	3-across bench
Headrests	High-back integrated seat type

### Audio/Navi

System	
AM/FM/CD (6 speakers)	S
Bose® AM/FM/CD, MP3/WMA compatible (9 speakers)	P
Factory-activated XM® Satellite Radio	S
Speed-sensitive auto volume control	P
Radio Data System (RDS)	P
Antenna	
In-glass	S
Diversity	S
Nissan Navigation System w/Energy Flow Display	P

### Trim

Accents	
Blond: Wood-tone	P
Charcoal: Metallic-tone	P
Sunvisors	Driver and passenger; illuminated vanity mirrors and extenders (opt.)
Shift knob	
Resin	S
Leather-wrapped	P
Trunk	
Carpeting	S
Inside lid trim	S

<b>HVAC/Defogger</b>	
Air conditioning/heater	Dual zone automatic temperature control
Front window defogger	w/ front and side defogger vents
Rear window defogger	w/ indicator light and timer
Rear heater ducts	S
Rear air conditioning vents	P
Microfilter ventilation	S

<b>Instrumentation</b>	
Analog gauges	Fine Vision Standard
	Speedometer, hybrid power meter Fuel level
Digital gauges	Dual trip odometer, trip computer, outside temperature, clock, hybrid power meter

<b>Convenience Features</b>	
Automatic Speed Control Device (ASCD)	S (cruise control)
Power windows	Auto up/down w/ anti-pinch plus key cylinder operated front up/down
Power door locks	S
Steering wheel-mounted control switches	S: ASCD, audio P: Bluetooth® Hands-Free Phone System, navigation audio controls
Intelligent Key	2 keyfobs
RearView Monitor	P
Cupholders	Front (5) Rear (4)
	3 in center console, 2 in-doors 2 in armrests, 2 in doors
12-volt outlets (2)	Instrument panel, center console
Coat hangers	2 in rear
Glove box	Bin/shelf type with damper and lock
Retained accessory power (windows/moonroof)	S
Auto-dimming inside rearview mirror	P
HomeLink® Universal Transceiver	P
Front map lights (2)	S
Rear reading lights (2)	S
Illuminated engine start/stop button	S
Illuminated switches	S

### ***Safety & Security***

<b>Passenger Restraint Systems</b>	
Nissan Advanced Air Bag System (AABS)	S
Supplemental air bags	Driver & passenger dual-stage, front seat side & front and rear head curtain
Seatbelts	3-point ALR/ELR
	All (including inboard)(driver ELR only)

Pretensioners	Front
Load-limiters	Front
Front-seat Active Head Restraints	S
<b>Child Safety</b>	
Child seat upper tether anchor	S
LATCH system	S
Child safety rear door locks	S
Power window lockout button	S
Emergency Inside Trunk Release	S
<b>Passive Safety</b>	
Energy-absorbing steering column	S
Front & rear crumple zones	S
Hood buckling creases and safety stops	S
Body side reinforcements	S
Shift interlock system	S
<b>Security</b>	
Steering wheel lock (when powered off)	S
Immobilizer	S
Vehicle Security System (VSS)	S

### *Dimensions*

<b>Exterior</b>	
Wheelbase	109.3 in.
Overall Length	189.2 in.
Overall Width	69.6 in.
Overall Height	58.1 in.
Track Width (front/rear)	60.7 in./60.4 in.
Minimum Ground Clearance	5.2 in
Coefficient of Drag (Cd)	0.31/0.30 w/spoiler
<b>Interior</b>	
Seating capacity	5 passengers
Front	
Head room (w/o moonroof)	40.6 in.
Leg room	44.1 in.
Hip room	56.8 in.
Shoulder room	55.7 in.
Rear	
Head room (w/o moonroof)	36.8 in.
Leg room	35.8 in.
Hip room	52.5 in.
Shoulder room	55.5 in.
Passenger compartment volume	100.7 ft. <sup>3</sup>
Cargo volume	10.1 ft. <sup>3</sup>
Total volume	110.8 ft. <sup>3</sup>

## ***Weights & Capacities***

<b>Weights</b>	
Curb	
Front	2,028 lbs.
Rear	1,454 lbs.
Total	3,482 lbs.
Weight distribution (front/rear)	58.2% / 41.8%
Gross Vehicle Weight Rating (GVWR)	4,537 lbs.

<b>Capacities</b>	
Fuel tank	20.0 gal.
Engine oil	4.5 qt.
Engine coolant	2.0 gal.
Towing	
Trailer (maximum, when properly equipped)	1,000
Tongue	100
Cargo capacity	150 lbs.

<b>Fuel Economy</b>	
City	35 mpg
Highway	33 mpg
Classification	Mid-size

## ***Packages & Accessories***

<b>Packages</b>	
<b>Altima Hybrid Convenience Package</b>	8-way power driver's seat, automatic on/off headlights, dual sun visors w/ illuminated vanity mirrors & extenders, leather-wrapped steering wheel, upper-grade interior finisher (blond interior only), steering wheel-mounted audio controls, trunk net, front passenger power window w/ one-touch auto up/down & auto reverse, key cylinder-operated front windows up/down, keyfob-operated front windows up/down, rear spoiler

<b>Packages, continued</b>	
<b>Altima Hybrid Connection Package</b>	Contents of Convenience Package, plus: leather-appointed seats and door trim, driver's power lumbar support, upper-grade interior trim finisher (wood on blond interior, metallic on charcoal interior), Bose AM/FM/CD6 w/ 9 speakers, front heated seats, satellite radio (XM®), HomeLink® Universal Transceiver, auto-dimming inside rearview mirror, leather-wrapped shift knob, MP3/WMA compatibility, Radio Data System (RDS), Bluetooth® Hands-free Phone System, speed-sensitive audio volume, manual folding outside rearview mirrors w/ integrated turn signals, compass, illuminated console lighting, power moonroof w/ sunshade
<b>Altima Hybrid Technology Package</b>	Contents of Connection Package, plus: Nissan Navigation System, power energy flow display with MPG history, RearView Monitor™, XM® Satellite Radio w/ integrated real-time traffic

- S | Standard
- O | Optional
- P | Included in Package