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CHEVROLET VOLT SPECIFICATIONS

Overview

Model: 2011 Chevrolet Volt
Body style / driveline: front-wheel-drive, five-door hatchback extended-range electric vehicle
Construction: single body-frame-integral (unibody) with front and rear crumple zones; galvanized steel front fenders; hood, roof, door panels; one-piece bodyside outer panel; thermal plastic olefin (TPO) bumper fascias
Key competitors: Nissan Leaf, Toyota Prius, clean diesels, mid-luxury sport sedans
Manufacturing location: Hamtramck Assembly, Hamtramck, Mich.
Battery manufacturing location: Brownstown Township, Mich.

Battery system

Type: rechargeable energy storage system comprising multiple linked modules
Size/case: 5.5-foot-long T-shaped; glass-filled polyester structural composite with aluminum thermal radiation shield and steel
Mass (lb / kg): 435 / 198.1
Battery chemistry: lithium-ion
Thermal system: liquid active thermal control
Cells: 288 prismatic
Combined electric/extended driving range: Up to 350 miles
Warranty: eight years / 100,000 miles
Energy: 16-kWh

Engine

Type: 1.4L DOHC I-4
Displacement (cu in / cc): 85.3 / 1398
Bore & stroke (in / mm): 2.89 x 3.25 / 73.4 x 82.6
Block material: cast iron
Cylinder head material: cast aluminum
Valvetrain: overhead camshafts; four valves per cylinder, continuously variable intake and exhaust cam phaser
Ignition system: Individual coil-on-plug – cassette type
Fuel delivery: sequential multi-port fuel injectors with electronic throttle control
Compression ratio: 10.5:1
Output (kW / hp @ rpm): 63 / 84 @ 4800 (est.)
Max engine speed (rpm): 4800 (est.)
Emissions controls: close-coupled catalytic converters; 58x ignition system; returnless fuel rail; fast light-off O2 sensor
Recommended fuel: premium required
EPA fuel economy: TBD

Electric drive

Type: electric, two-wheel, front-drive
Motors (two): drive motor, 111 kW; generator motor, 54 kW
Transaxle: Voltec electric drive system
Power (kW / hp): 111 / 149
Torque: (lb-ft/Nm): 273 / 368

Charging times

120 V:	about 10-12 hours (actual charge times may vary)
240 V:	about 4 hours (actual charge times may vary)

Performance

Top speed (mph):	100
EV range (city):	25 to 50 (based on EPA city cycle and depending on terrain, driving techniques and temperature)
EV / Extended range:	up to 350 miles including EV on fully charged battery and full tank of fuel

Chassis/Suspension

Front:	independent MacPherson strut-type with side-loaded strut modules, specially tuned coil springs, direct-acting hollow stabilizer bar; hydraulic ride bushings
Rear:	specially adapted compound crank (torsion beam) with double-walled, U-shaped profile at the rear; specifically tuned coil springs, hydraulic bushings
Chassis control:	four-channel ABS; all-speed traction control; StabiliTrak; drag control
Steering type:	rack-mounted electric power steering with ZF steering gear
Steering wheel turns, lock-to-lock:	2.8
Turning circle, curb-to-curb (ft / m):	36 / 11
Steering ratio:	15.36

Brakes

Type:	power four-wheel vented disc with ABS; electro-hydraulic; fully regenerative to maximize energy capture; dynamic rear brake proportioning
Brake rotor diameter front (mm / in):	300 / 11.8; vented, single 60-mm front / rear piston w/ steel body caliper
Brake rotor diameter rear (mm / in):	292 / 11.5; vented; steel body caliper with single 38-mm piston
Total swept area (cu cc / pad area):	front: TBD rear: TBD

Wheels/Tires

Wheel size and type:	17 x 7-in. lightweight, forged, painted aluminum alloy; five-lug (std.) 17 x 7-in. lightweight, forged, polished aluminum alloy; five-lug (opt.)
Tires:	Goodyear Fuel Max P215/55R/17 low-rolling resistance BSW; all-season

Dimensions

Exterior

Wheelbase (in / mm):	105.7 / 2685
Overall length (in / mm):	177.1 / 4498
Overall width (in / mm):	70.4 / 1788
Track width front (in / mm):	61.2 / 1556
Track width rear (in / mm):	62.1 / 1578
Height (in / mm):	56.3 / 1430
Front overhang (in / mm):	39.0 / 993
Rear overhang (in / mm):	32.2 / 820

Interior

Seating capacity (front / rear):	2 / 2
Headroom (front / rear, in. / mm):	37.8 / 960; 36.0 / 914
Shoulder room (front / rear, in / mm):	56.5 / 1435; 53.9 / 1369
Hip room (front / rear, in / mm):	53.7 / 1365; 51.2 / 1301
Legroom (front / rear, in / mm):	42.0 / 1067; 31.0 / 866
Cargo volume (cu ft / L):	10.6 / 300.2

Capacities

Curb weight (lb / kg):	TBD
Generator cooling (qt / L):	7.7 / 7.3
Battery pack cooling (qt / L):	7.4 / 7.0
Power electronics cooling (qt / L):	3.1 / 2.9
Fuel tank (gal / L):	9.3 / 35.2
Engine oil w/ filter (qt / L):	3.7 / 3.5
Drive unit fluid (qt / L):	8.93 / 8.45
Wheel nut torque (lb-ft / Nm):	100 / 140
Coefficient of drag (Cd):	.287 (est.)

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