



THE NEW TACTICAL ADVANTAGE

2017
AUTHORITY

POLICE AND AUTHORITY MOTORCYCLES



EFFICIENT. EFFECTIVE. ELECTRIC.

Zero Motorcycles is the next step in police and authority motorcycle evolution. Stealthy, clean and efficient, electric motorcycles provide a new tactical advantage in law enforcement, emergency services and military applications.

With no gears, clutch or noise, Zero motorcycles are easy to operate and improve situational awareness. While in crowds or indoors, the absence of exhaust eliminates ventilation concerns and creates new patrolling scenarios. Over 100 agencies worldwide benefit from having Zero motorcycles in their fleet.

ZERO MOTORCYCLES ARE UNIQUELY SUITED FOR

- » Patrolling public lands, parks, beaches, trails, running paths
- » Event safety and crowd control at concerts, parades, sporting events
- » Traffic enforcement in dense urban centers, pedestrian areas and surface streets
- » Stealth patrol for drug enforcement, border/perimeter security, college campuses and any situation where silence is an advantage
- » Emergency response scenarios where maneuverability and agility are key



REASONS TO RIDE ELECTRIC

- » Economical to operate – about a penny-per-mile in “fuel” cost
- » Easy to maintain – powertrain requires no scheduled maintenance
- » Built to last – batteries exceed the life of the motorcycle
- » Community connection – quiet and environmentally conscious

NEW TACTICAL ADVANTAGES

- » No shifting, instant torque from 0 rpm
- » Silent idle and stealthy pursuit
- » Lightweight, highly maneuverable
- » Rapid acceleration up to 102 mph
- » Rugged on/off-road versatility

ELIMINATE GASOLINE COMPLICATIONS

- » Reduce noise and exhaust disturbances
- » Eliminate gas and oil spills
- » Eradicate burn and fire risks
- » No tailpipe emissions
- » Never stop for gas, “refuel” from any standard outlet

GRANTS AVAILABLE

Grants may be available for both public and private organizations when purchasing electric patrol vehicles. Grants – and other incentives – can offset some or all of the vehicle purchase price. For additional info, contact

<http://www.policegrantshelp.com/>

POLICE AND AUTHORITY MOTORCYCLES

ZERO DSRP™

Zero's most powerful police motorcycle.

- » High performance dual sport
- » Z-Force® 75-7R motor with hi-temp magnets
- » 116 ft-lb torque, 70 hp
- » Rapid acceleration
- » 102 mph top speed



ZERO DSP™

Dual purpose, go anywhere capability.

- » Extremely versatile dual sport model
- » Perfectly suited for both street and light off-road duty
- » 81 ft-lb torque, 60 hp
- » High capacity integrated power pack
- » Over 100 miles combined city/highway range (with optional Power Tank)

ZERO FXP™

Compact, quick and responsive, off-road ready.

- » Ideal for tight quarters such as arenas and congested areas
- » Off-road capability for parks, beaches, open spaces
- » Light weight at 302 lbs
- » Quick acceleration with 78 ft-lb of torque
- » Low purchase price and operating costs



"This motorcycle is so quiet that we continuously sneak up on suspects while out on patrol, and we continue to receive positive feedback from the public."

**Officer Steve Carbajal,
L.A.P.D. Off-Road Unit (CA)**

"It costs us about a dollar a day versus \$15-20 to run a gas-powered motorcycle."

**Lt. Chris Perry,
Ceres, CA Police Dept. (CA)**

"The ease of use, positive public relations and downright fun have proven invaluable to our department."

**Sgt. James D. Fincher,
Cobb County Police Department (GA)**

"Zero motorcycles are just what we needed: nimble enough for working in crowds, durable enough for tough off-road use."

**Sgt. Adam Vassallo, Traffic Supervisor,
Sacramento Police Department (CA)**

"They are a delight to operate while giving us expanded patrol options."

**Chief Stephen Gahagans,
University of Arkansas Police Department (AR)**

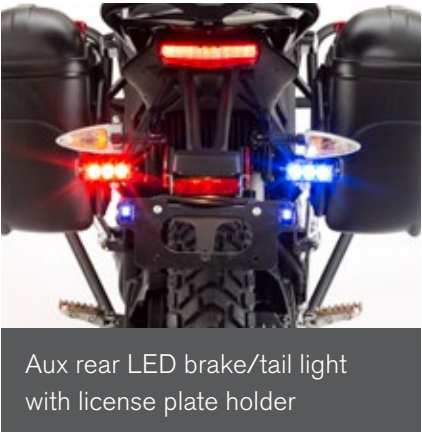
"We can stay out of sight and still close distance quickly and quietly, which diminishes a suspect's opportunity to flee."

**Lt. James Williams,
Denver Police Department (CO)**

CUSTOM BUILT TO YOUR SPECIFICATIONS



Rear radio top box and rack



Aux rear LED brake/tail light with license plate holder



Telescoping pole light (blue LED)

Detachable
windscreen




Top box by
GIVI® and rack

Hand
guards

Side cases by
GIVI® and rack

Whelen® TIR3
lights and siren



MODELS	Zero DSRP	Zero DSP	Zero FXP
COLORS			
CAPACITIES	ZF13.0, ZF13.0 +Power Tank	ZF13.0, ZF13.0 +Power Tank	ZF6.5



STANDARD POLICE PACKAGE

- » Whelen® TIR3 Emergency Lights – front, side and rear-facing
- » Whelen® Siren with PA and Microphone
- » Front battery/frame protection bars (drop bars)
- » Stealth mode switch – headlight, taillight, dash light cut switch
- » Locking tank trunk

AVAILABLE OPTIONS FOR POLICE MODELS

- » Power Tank (extends range on Zero DSRP, Zero DSP)
- » Charge Tank (reduces charge times on Zero DSRP, Zero DSP)
- » Off-board Quick Chargers (reduce charge times on all models)
- » Rear rack, top box, side cases
- » 12 V accessory socket kit
- » Hand guards
- » Aggressive foot pegs
- » Rain guard
- » Chain kit
- » Windscreen
- » Telescoping pole light
- » LED license plate holder
- » Parking brake
- » Smartphone mount

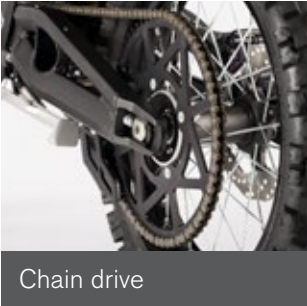
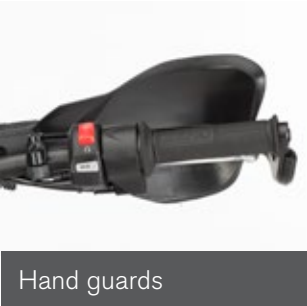
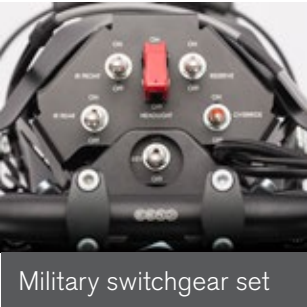
Model shown: Zero DSRP with available options.



COVERT AND CUSTOM

The Zero MMX is perfectly suited to military applications where silence, low heat signature, lack of exhaust, ease of operation and responsiveness are essential. Using Zero Motorcycles' industry leading Z-Force® powertrain, it features quick swappable power packs, direct drive gearing and an air-cooled motor. With no transmission, powertrain fluids or gas, and weighing only 273 lb, the Zero MMX is easy to transport and maintain.

While designed for military personnel, the Zero MMX is available to civilian agencies for off-road use.



Hand guards

Passenger foot pegs

Pirelli Scorpion MT-21 Rallycross tires

MODEL	MMX
COLOR	
CAPACITY	ZF6.5



STANDARD MILITARY FEATURES

- » Fully modular Z-Force® quick-swap technology allows power packs to be swapped in seconds
- » Ability to operate in wet or rainy conditions with a one meter submersion capability
- » Chain-drive is durable in mud or sand; reliable on rough terrain
- » Pirelli Scorpion MT-21 Rallycross tires deliver exceptional off-road performance
- » Off-board charger reduces weight
- » Off-road instrument panel
- » Sidestand
- » Rear lift strap

AVAILABLE OPTIONS FOR ZERO MMX

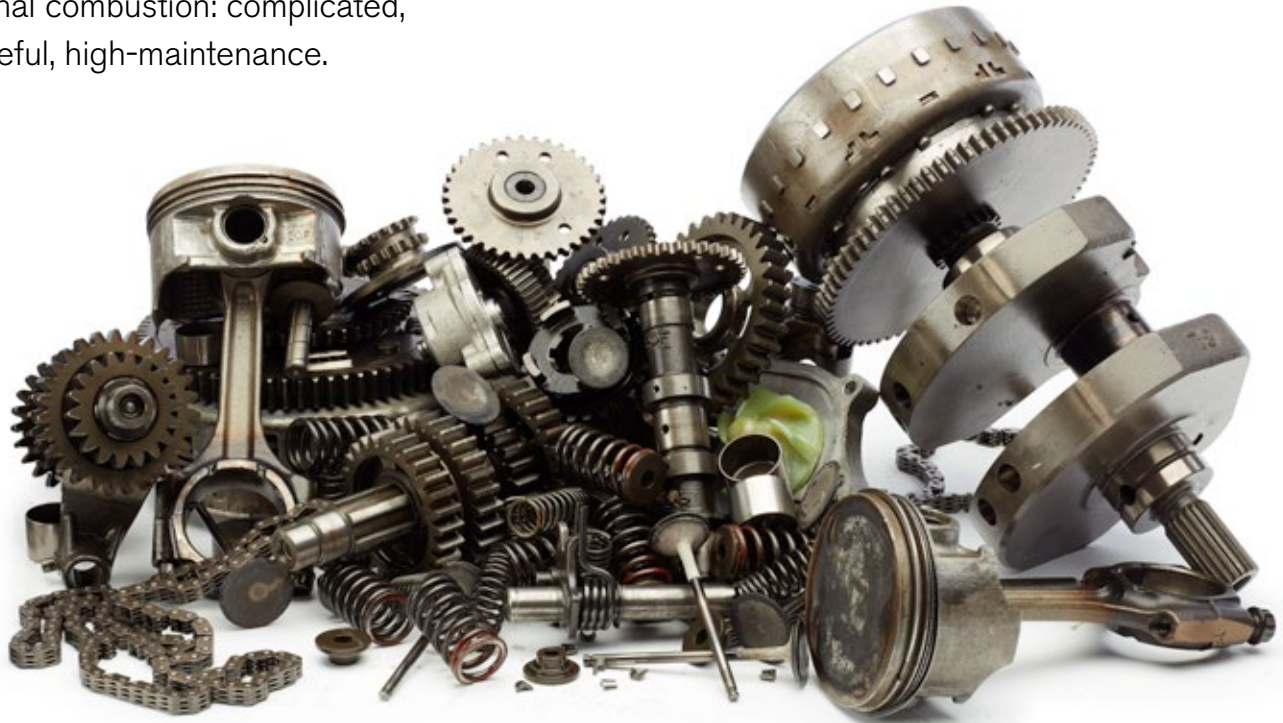
- » Military switchgear kit includes: military switches (keyless ignition, headlight, safety override, reserve, and infrared front & rear), headlight, fly screen, IR pigtails
- » Off-board Quick Chargers (reduces charge times)
- » Front battery/frame protection bars (drop bars)
- » Aggressive foot pegs
- » Tie down and tow cable
- » On-board charger
- » Belt drive
- » Dual-sport tires
- » Hand guards
- » Passenger foot pegs
- » Road/street dash instrumentation
- » Top box rack kit
- » Parking brake

Model shown: Zero MMX with available options.

SOPHISTICATED SIMPLICITY

THEIRS.

Internal combustion: complicated, wasteful, high-maintenance.



OURS.

Z-Force® motor: elegant, efficient, contains one moving part.



Z-FORCE® MOTOR

MASSIVE TORQUE

The Z-Force® motor was designed by Zero Motorcycles in Santa Cruz, California, and engineered for optimum performance, efficiency, size and reliability. With no fluids to maintain and a single moving part, the motor delivers trouble-free performance for the life of the vehicle.

- » Up to 116 ft-lb of instant torque and 70 hp
- » Smooth, rapid acceleration in all conditions
- » Requires no routine maintenance
- » Air-cooled with no coolant to change or leak
- » Regenerative braking extends range



Z-FORCE® POWER PACK

MORE ENERGY

Zero Motorcycles' proprietary battery systems feature the highest energy and power density in the electric vehicle industry, providing the longest range of any production electric motorcycle. Advanced Li-Ion cell chemistry and battery management systems ensure a maintenance-free lifetime of service.

- » Power packs on police models are backed by a five-year, unlimited mileage warranty (one year on Zero MMX, restrictions apply)
- » Cells last 2,500 full charge cycles and retain greater than 80% capacity
- » Robust, weatherproof batteries are reliable, even in harsh conditions
- » Advanced battery management system with enhanced 24/7 cell monitoring
- » Available Power Tank extends range on Zero DSP or Zero DSRP



ZERO'S MOBILE APP

GET CONNECTED

Customizing performance and managing your fleet of motorcycles is made easy with the free Zero Motorcycles mobile app. While riding, the app provides real-time data and serve as a supplemental dash display. While parked, with the app you can:

- » Customize top speed, max torque and regenerative braking
- » See detailed analysis of battery and charging status
- » View data on energy use, "fuel" economy and cost savings
- » Send diagnostic information to Zero Motorcycles
- » Save time and money by updating vehicle firmware



SPECIFICATIONS

ZERO DSRP ZF13.0		ZERO DSRP ZF13.0 +POWER TANK
RANGE*		
City	141 miles (227 km)	176 miles (283 km)
Highway, 55 mph (89 km/h)	79 miles (127 km)	99 miles (159 km)
» Combined	101 miles (163 km)	127 miles (204 km)
Highway, 70 mph (113 km/h)	58 miles (93 km)	73 miles (117 km)
» Combined	82 miles (132 km)	103 miles (166 km)
MOTOR		
Peak torque	116 ft-lb (157 Nm)	116 ft-lb (157 Nm)
Peak power	70 hp (52 kW) @ 3,500 rpm	70 hp (52 kW) @ 3,500 rpm
Top speed (max)*	102 mph (164 km/h)	102 mph (164 km/h)
Top speed (sustained)*	90 mph (145 km/h)	90 mph (145 km/h)
Type	Z-Force® 75-7R passively air-cooled, high efficiency, radial flux, interior permanent hi-temp magnet, brushless motor	
Controller	High efficiency, 775 amp, 3-phase brushless controller with regenerative deceleration	
POWER SYSTEM		
Est. pack life to 80% (city)	317,000 miles (510,000 km)	397,000 miles (639,000 km)
Power pack	Z-Force® Li-Ion intelligent integrated	Z-Force® Li-Ion intelligent integrated
Max capacity	13.0 kWh	16.3 kWh
Nominal capacity	11.4 kWh	14.3 kWh
Charger type	1.3 kW, integrated	1.3 kW, integrated
Charge time (standard)	8.9 hours (100% charged) / 8.4 hours (95% charged)	11.0 hours (100% charged) / 10.5 hours (95% charged)
» With Charge Tank accessory	3.4 hours (100% charged) / 2.9 hours (95% charged)	N/A
» With one accessory charger	5.2 hours (100% charged) / 4.7 hours (95% charged)	6.4 hours (100% charged) / 5.9 hours (95% charged)
» With max accessory chargers	2.6 hours (100% charged) / 2.1 hours (95% charged)	3.1 hours (100% charged) / 2.6 hours (95% charged)
Input	Standard 110 V or 220 V	Standard 110 V or 220 V
DRIVETRAIN		
Transmission	Clutchless direct drive	Clutchless direct drive
Final drive	90T / 20T, Poly Chain® HTD® Carbon™ belt	90T / 20T, Poly Chain® HTD® Carbon™ belt
CHASSIS / SUSPENSION / BRAKES		
Front suspension	Showa 41 mm inverted cartridge forks, with adjustable spring preload, compression and rebound damping	
Rear suspension	Showa 40 mm piston, piggy-back reservoir shock with adjustable spring preload, compression and rebound damping	
Front suspension travel	7.00 in (178 mm)	7.00 in (178 mm)
Rear suspension travel	7.03 in (179 mm)	7.03 in (179 mm)
Front brakes	Bosch Gen 9 ABS, J-Juan asymmetric dual piston floating caliper, 320 x 5 mm disc	
Rear brakes	Bosch Gen 9 ABS, J-Juan single piston floating caliper, 240 x 4.5 mm disc	
Front tire	Pirelli MT-60 100/90-19	Pirelli MT-60 100/90-19
Rear tire	Pirelli MT-60 130/80-17	Pirelli MT-60 130/80-17
Front wheel	2.50 x 19	2.50 x 19
Rear wheel	3.50 x 17	3.50 x 17
DIMENSIONS		
Wheelbase	56.2 in (1,427 mm)	56.2 in (1,427 mm)
Seat height	33.3 in (846 mm)	33.3 in (846 mm)
Rake	26.5°	26.5°
Trail	4.6 in (117 mm)	4.6 in (117 mm)
WEIGHT		
Frame	23 lb (10.4 kg)	23 lb (10.4 kg)
Curb weight	443 lb (201 kg)	487 lb (221 kg)
Carrying capacity	332 lb (151 kg)	288 lb (131 kg)
ECONOMY		
Equivalent fuel economy (city)	415 MPGe (0.57 l/100 km)	415 MPGe (0.57 l/100 km)
Equivalent fuel economy (highway)	170 MPGe (1.38 l/100 km)	170 MPGe (1.38 l/100 km)
Typical cost to recharge	\$1.46	\$1.83

ZERO DSP ZF13.0		ZERO DSP ZF13.0 +POWER TANK
RANGE*		
City	141 miles (227 km)	176 miles (283 km)
Highway, 55 mph (89 km/h)	79 miles (127 km)	99 miles (159 km)
» Combined	101 miles (163 km)	127 miles (204 km)
Highway, 70 mph (113 km/h)	58 miles (93 km)	73 miles (117 km)
» Combined	82 miles (132 km)	103 miles (166 km)
MOTOR		
Peak torque	81 ft-lb (110 Nm)	81 ft-lb (110 Nm)
Peak power	60 hp (45 kW) @ 5,300 rpm	60 hp (45 kW) @ 5,300 rpm
Top speed (max)*	98 mph (159 km/h)	98 mph (159 km/h)
Top speed (sustained)*	85 mph (137 km/h)	85 mph (137 km/h)
Type	Z-Force® 75-7 passively air-cooled, high efficiency, radial flux, interior permanent magnet, brushless motor	
Controller	High efficiency, 550 amp, 3-phase brushless controller with regenerative deceleration	
POWER SYSTEM		
Est. pack life to 80% (city)	317,000 miles (510,000 km)	397,000 miles (639,000 km)
Power pack	Z-Force® Li-Ion intelligent integrated	Z-Force® Li-Ion intelligent integrated
Max capacity	13.0 kWh	16.3 kWh
Nominal capacity	11.4 kWh	14.3 kWh
Charger type	1.3 kW, integrated	1.3 kW, integrated
Charge time (standard)	8.9 hours (100% charged) / 8.4 hours (95% charged)	11.0 hours (100% charged) / 10.5 hours (95% charged)
» With Charge Tank accessory	3.4 hours (100% charged) / 2.9 hours (95% charged)	N/A
» With one accessory charger	5.2 hours (100% charged) / 4.7 hours (95% charged)	6.4 hours (100% charged) / 5.9 hours (95% charged)
» With max accessory chargers	2.6 hours (100% charged) / 2.1 hours (95% charged)	3.1 hours (100% charged) / 2.6 hours (95% charged)
Input	Standard 110 V or 220 V	Standard 110 V or 220 V
DRIVETRAIN		
Transmission	Clutchless direct drive	Clutchless direct drive
Final drive	90T / 20T, Poly Chain® HTD® Carbon™ belt	90T / 20T, Poly Chain® HTD® Carbon™ belt
CHASSIS / SUSPENSION / BRAKES		
Front suspension	Showa 41 mm inverted cartridge forks, with adjustable spring preload, compression and rebound damping	
Rear suspension	Showa 40 mm piston, piggy-back reservoir shock with adjustable spring preload, compression and rebound damping	
Front suspension travel	7.00 in (178 mm)	7.00 in (178 mm)
Rear suspension travel	7.03 in (179 mm)	7.03 in (179 mm)
Front brakes	Bosch Gen 9 ABS, J-Juan asymmetric dual piston floating caliper, 320 x 5 mm disc	
Rear brakes	Bosch Gen 9 ABS, J-Juan single piston floating caliper, 240 x 4.5 mm disc	
Front tire	Pirelli MT-60 100/90-19	Pirelli MT-60 100/90-19
Rear tire	Pirelli MT-60 130/80-17	Pirelli MT-60 130/80-17
Front wheel	2.50 x 19	2.50 x 19
Rear wheel	3.50 x 17	3.50 x 17
DIMENSIONS		
Wheelbase	56.2 in (1,427 mm)	56.2 in (1,427 mm)
Seat height	33.3 in (846 mm)	33.3 in (846 mm)
Rake	26.5°	26.5°
Trail	4.6 in (117 mm)	4.6 in (117 mm)
WEIGHT		
Frame	23 lb (10.4 kg)	23 lb (10.4 kg)
Curb weight	437 lb (198 kg)	481 lb (218 kg)
Carrying capacity	338 lb (153 kg)	294 lb (133 kg)
ECONOMY		
Equivalent fuel economy (city)	415 MPGe (0.57 l/100 km)	415 MPGe (0.57 l/100 km)
Equivalent fuel economy (highway)	170 MPGe (1.38 l/100 km)	170 MPGe (1.38 l/100 km)
Typical cost to recharge	\$1.46	\$1.83

*Range and top speed vary based on riding style and drivetrain configuration.

SPECIFICATIONS

ZERO FXP ZF6.5	
RANGE*	
City	79 miles (127 km)
Highway, 55 mph (89 km/h)	46 miles (74 km)
» Combined	58 miles (93 km)
Highway, 70 mph (113 km/h)	29 miles (47 km)
» Combined	41 miles (66 km)
MOTOR	
Peak torque	78 ft-lb (106 Nm)
Peak power	46 hp (34 kW) @ 4,300 rpm
Top speed (max)*	85 mph (137 km/h)
Top speed (sustained)*	70 mph (113 km/h)
Type	Z-Force® 75-5 passively air-cooled, high efficiency, radial flux, interior permanent magnet, brushless motor
Controller	High efficiency, 550 amp, 3-phase brushless controller with regenerative deceleration
POWER SYSTEM	
Est. pack life to 80% (city)	178,000 miles (286,000 km)
Power pack	Z-Force® Li-Ion intelligent integrated
Max capacity	6.5 kWh
Nominal capacity	5.7 kWh
Charger type	650 W, integrated
Charge time (standard)	8.9 hours (100% charged) / 8.4 hours (95% charged)
» With one accessory charger	3.8 hours (100% charged) / 3.3 hours (95% charged)
» With max accessory chargers	1.7 hours (100% charged) / 1.2 hours (95% charged)
Input	Standard 110 V or 220 V
DRIVETRAIN	
Transmission	Clutchless direct drive
Final drive	90T / 20T, Poly Chain® HTD® Carbon™ belt
CHASSIS / SUSPENSION / BRAKES	
Front suspension	Showa 41 mm inverted cartridge forks, with adjustable spring preload, compression and rebound damping
Rear suspension	Showa 40 mm piston, piggy-back reservoir shock with adjustable spring preload, compression and rebound damping
Front suspension travel	8.60 in (218 mm)
Rear suspension travel	8.94 in (227 mm)
Front brakes	Bosch Gen 9 ABS, J-Juan dual piston floating caliper, 240 x 4.5 mm disc
Rear brakes	Bosch Gen 9 ABS, J-Juan single piston floating caliper, 240 x 4.5 mm disc
Front tire	Pirelli Scorpion MT 90 A/T 90/90-21
Rear tire	Pirelli Scorpion MT 90 A/T 120/80-18
Front wheel	1.85 x 21
Rear wheel	2.50 x 18
DIMENSIONS	
Wheelbase	56.6 in (1,438 mm)
Seat height	34.7 in (881 mm)
Rake	25.4°
Trail	4.1 in (104 mm)
WEIGHT	
Frame	20 lb (9.1 kg)
Curb weight	302 lb (137 kg)
Carrying capacity	328 lb (149 kg)
ECONOMY	
Equivalent fuel economy (city)	460 MPGe (0.51 l/100 km)
Equivalent fuel economy (highway)	170 MPGe (1.38 l/100 km)
Typical cost to recharge	\$0.73

ZERO MMX ZF6.5	
RANGE*	
City	71 miles (114 km)
Recon riding	60-160 minutes
Aggressive tactical riding	40-140 minutes
MOTOR	
Peak torque	78 ft-lb (106 Nm)
Peak power	46 hp (34 kW) @ 4,300 rpm
Top speed (max)*	85 mph (137 km/h)
Top speed (sustained)*	75 mph (121 km/h)
Type	Z-Force® 75-5 passively air-cooled, high efficiency, radial flux, interior permanent magnet, brushless motor
Controller	High efficiency, 550 amp, 3-phase brushless controller with regenerative deceleration
POWER SYSTEM	
Est. pack life to 80% (off-road)	4,130 hours
Power pack	Z-Force® Li-Ion intelligent modular
Max capacity	6.5 kWh
Nominal capacity	5.7 kWh
Charger type	1 kW, standalone
Charge time (standard)	5.9 hours (100% charged) / 5.4 hours (95% charged)
» With one accessory charger	3.2 hours (100% charged) / 2.7 hours (95% charged)
» With max accessory chargers	1.9 hours (100% charged) / 1.4 hours (95% charged)
Input	Standard 110 V or 220 V
DRIVETRAIN	
Transmission	Clutchless direct drive
Final drive	65T / 12T, 520 chain
CHASSIS / SUSPENSION / BRAKES	
Front suspension	Showa 41 mm inverted cartridge forks, with adjustable spring preload, compression and rebound damping
Rear suspension	Showa 40 mm piston, piggy-back reservoir shock with adjustable spring preload, compression and rebound damping
Front suspension travel	8.60 in (218 mm)
Rear suspension travel	8.94 in (227 mm)
Front brakes	J-Juan dual piston floating caliper, 240 x 4.5 mm disc
Rear brakes	J-Juan single piston floating caliper, 240 x 4.5 mm disc
Front tire	Pirelli MT-21 Rallycross 90/90-21
Rear tire	Pirelli MT-21 Rallycross 120/80-18
Front wheel	1.85 x 21
Rear wheel	2.50 x 18
DIMENSIONS	
Wheelbase	56.6 in (1,438 mm)
Seat height	34.7 in (881 mm)
Rake	25.4°
Trail	4.1 in (104 mm)
WEIGHT	
Frame	20 lb (9.1 kg)
Curb weight	273 lb (124 kg)
Carrying capacity	357 lb (162 kg)
ECONOMY	
Equivalent fuel economy (city)	417 MPGe (0.56 l/100 km)
Typical cost to recharge	\$0.73

*Range and top speed vary based on riding style and drivetrain configuration.



Model shown: Zero DSRP with available options.

ZERO MOTORCYCLES

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